

Equipment

Laboratory products for your equipment needs.

Better solutions for your laboratory.

Dependable, quality equipment is essential to your laboratory's success. From centrifuges and refrigerators to incubators and microscopes, Cardinal Health offers advanced technology at affordable prices.

The Cardinal Health laboratory product portfolio features items designed for all disciplines, from hematology to histology. In addition, our dedicated sales professionals can recommend the quality products designed for your lab's unique needs all while saving you valuable time. Letting you get back to the business of running your lab.



To hear more about how we can support your lab, contact your Cardinal Health sales representative or call 800.964.5227.

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Terms and Conditions of Sale

Centrifuges and Accessories

Centrifuges/Microcentrifuges



Benchtop Centrifuge 6F

CARDINAL HEALTH - Encourage standardization with the Cardinal Health™ Benchtop Centrifuge 6F. The single fixed speed and time of the 6F promote centrifugation best practices even at remote sites. The simple two-button design simplifies training. Ideal for doctor's offices, patient service centers, outreach locations and any application where consistency is key.

Preset to 1,600 x g (3,400 rpm) with a 10-minute spin to suit most common tube IFUs. Horizontal centrifugation ensures that samples spun in the 6F are appropriately prepared for transport to the central lab for analysis.

Can accommodate up to 6 tubes from 3–10 mL (75–100 mm). Arrives ready to run with rotor and tube holders included. Designed, built and supported in the USA.

Specifications:

Maximum capacity	Up to six (6) 10 mL/17 x 75 mm, Up to six (6) 10 mL/17 x 100 mm
Speed	3,400 rpm
RCF.....	1,600 x g
Motor	1/30 HP brushless AC
Acceleration time	10 seconds
Power requirement	115 V, 60 Hz
Dimensions: (H x W x D)	8.75 x 11.75 x 14 in.
Weight	11 lbs. (4.99 kg)
Warranty	Two-year warranty
Intended use	Chemistry

Cat. No.	Description	Qty.
CA018104	Centrifuge 6F, 6-place horizontal rotor	1/ea
6F model includes:		
<ul style="list-style-type: none"> • Horizontal rotor • Six (6) 75 mm tube holders • Six (6) 100 mm tube holders • Two (2) 1 to 1.5 mL tube adapters • Two (2) 1.5 to 2 mL tube adapters 		
Accessories		
7713011	Shield cap	1/ea
79-009-001	SmartView™ platform	1/ea
7713068	Tube adapters, 0.5 to 1 mL	1/ea
7713065	Tube adapters, 1.5 to 2 mL	1/ea



Benchtop Centrifuge 6V

CARDINAL HEALTH - Enjoy versatility and power in a small footprint with the Cardinal Health™ Benchtop Centrifuge 6V. Adjust cycle time, speed and deceleration on the fly and program up to nine of your preferred settings for later use.

Once the centrifuge is running, the bright, clear screen becomes a countdown timer, tracking remaining cycle duration at a glance. Convenient swing-out buckets load vertically and spin horizontally.

With a maximum speed of 2,000 x g (3,800 rpm), the 6V provides convenience and flexibility in any lab. The 6V can spin up to 6 tubes from 3–10 mL tubes (75–100 mm) and arrives ready to run with horizontal rotor and tube holder included. Designed, built and supported in the USA.

Specifications:

Maximum capacity	Up to six (6) 10 mL/17 x 75 mm, Up to six (6) 10 mL/17 x 100 mm
Speed range	1,000–3,800 (± 100) rpm
RCF.....	114–2,000 (± 90) x g
Motor	1/30 HP brushless AC
Timer	Electronic, 1 to 99 minutes
Power requirements	115–230 V, 50/60 Hz, 1.5 A
Dimensions: (H x W x D)	8.75 x 11.75 x 14 in.
Weight	12 lbs. (5.4 kg)
Warranty	Two-year warranty

Intended use	Platelet poor plasma, platelet rich plasma, coagulation, clinical chemistry, urine sedimentation and specialty applications
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Cat. No.	Description	Qty.
CA024104	Centrifuge 6V, 6-place horizontal rotor	1/ea
6V model includes:		
<ul style="list-style-type: none"> • Horizontal rotor • Six (6) 75 mm tube holders • Six (6) 100 mm tube holders 		
Accessories		
7713011	Shield cap	1/ea
79-009-001	SmartView™ platform	1/ea
7713068	Tube adapters, 0.5 to 1 mL	1/ea
7713065	Tube adapters, 1.5 to 2 mL	1/ea

Centrifuges and Accessories

Centrifuges/Microcentrifuges



Benchtop Centrifuge 6V-FA

CARDINAL HEALTH - Similar to the Cardinal Health™ 6V centrifuge, the model 6V-FA provides the flexibility and performance that clinical laboratories require. Programmable force (from 250 to 1,850 x g) and time settings are controlled via an easy to use digital display. Once the cycle starts, the screen becomes a countdown timer for easy status tracking.

With its compact size, the Cardinal Health™ 6V-FA is ideal for any application where flexible settings are needed and fixed angle centrifugation is desired or specimens are analyzed on site. The centrifuge arrives ready to run with rotor and tube holders included and can process up to 6 x 15 mL (125 mm) tubes. Designed, built and supported in the USA.

Specifications:

Maximum capacity Up to six (6) 10 mL/17 x 75 mm,
Up to six (6) 10 mL/17 x 100 mm,
Up to six (6) 15 mL/17 x 125 mm

Speed range 1,425–3,900 rpm

RCF range 250–1,850 x g

Rotor type Fixed-angle rotor

Power requirements 115–230 V, 50/60 Hz

Dimensions: (H x W x D) 14 x 11.75 x 8.75 in.

Weight 12 lbs. (5.4 kg)

Intended Use Blood chemistry specimens, urine, platelet rich plasma (PRP) and platelet poor plasma (PPP)

Cat. No.	Description	Qty.
CA00719	Centrifuge 6V-FA , 6-place fixed rotor	1/ea
6V-FA model includes:		
• Fixed angle rotor • Six (6) 75–100 mm tube holders • Six (6) 125 mm tube holders		

Accessories	Description	Qty.
7713011	Shield cap	1/ea
79-009-001	SmartView™ platform	1/ea
7713068	Tube adapters, 0.5 to 1 mL	1/ea
7713065	Tube adapters, 1.5 to 2 mL	1/ea



Benchtop Centrifuge 8HC

CARDINAL HEALTH - Optimize bench space and maximize capacity with the Cardinal Health™ Benchtop Centrifuge 8HC. Smart, simple interface provides outstanding capacity in a compact design.

One-touch operation with pre-saved protocols. A highly visible backlit display for easy reading of parameters across the lab.

Auto-Lock™ rotor exchange provides secure push-button application versatility and cleaning convenience. ClickSeal™ biocontainment lids provide one-handed sample protection.

Maximized swing-out capacity allows operator to process up to 8 x 50 mL conical tubes, 24 x 5/7 mL blood tubes and microtubes – all in one versatile centrifuge.

Auto-Lock and ClickSeal are trademarks of Thermo Fisher Scientific and its subsidiaries.

Specifications:

Maximum speed 16,000 rpm

Minimum speed 300 rpm

Maximum RCF 24,328 x g

Timer 99 hr. 59 min. 50 sec., hold

Noise Level at maximum speed¹ <58 dB(A) (measured with a TX-150 rotor)

Maximum kinetic energy 8.12 kJ

Temperature during operation 35.6°F to 95°F (2°C to 35°C)

Dimensions: (H x W x D) 12.6 x 18 x 26.4 in.

Weight² 77 lbs. (35 kg)

Warranty Two-year warranty

Intended use Blood and urine tubes

Cat. No.	Description	Qty.
CA75100102	Centrifuge 8HC, TX-150 swinging bucket rotor	1/ea
8HC model includes:		
• Round buckets (set of 4) • ClickSeal™ biocontainment lids for round buckets (set of 4) • Replacement O-rings for lids (set of 4)		

¹Front side measurement, 1 m in front of the instrument at 1.6 m height

²Without rotor

Centrifuges and Accessories

Centrifuges/Microcentrifuges



Benchtop Centrifuge 8V

CARDINAL HEALTH - Perform routine clinical and life science applications in one platform with the DualSpin™ rotor. This lightweight 8-place rotor is able to accommodate 1.4 mL to 15 mL tubes with two spacer options.

Run common clinical IVD blood tubes, gel tubes, 10 mL standard syringes and 15 mL conical tubes in one centrifuge with just one rotor. Simply turn knob to secure rotor in place.

Program up to four sets of custom run parameters to easily and quickly perform your routine protocols. The centrifuge has three deceleration profiles including standard, soft and brake-off options, designed to optimize separation.

Specifications:

Maximum capacity	8 x 10 mL (swinging bucket)
Speed range.....	300–4,900 rpm, adjustable in increments of 100 rpm
Maximum RCF	3,490 x g (swing out)
Timer.....	1 to 99 minutes, in increments of 1 minute; hold
Control system.....	Microprocessor
Program memory	4
Acceleration profile	1 (standard)
Deceleration profiles	3 (standard, soft, brake-off)
Acceleration/deceleration rates.....	24/31 seconds (swinging bucket)
Noise level at maximum speed	<56 dB(A) (swinging bucket)
Temperature during operation	35.6°F to 104°F (2°C to 40°C)
Power consumption.....	100–130 W, voltage dependent
Dimensions: (H x W x D)	9.45 x 12.79 x 17.72 in.
Weight	34.1 lbs. (15.5 kg)
Warranty	Two-year warranty
Intended use.....	Common clinical IVD blood tubes, gel tubes, 10 mL standard syringes and 15 mL conical tubes

Cat. No.	Description	Qty.
CA75008801	Centrifuge 8V, 8-place horizontal rotor	1/ea
8V model includes:		
<ul style="list-style-type: none"> • DualSpin™ rotor body • Swinging buckets (set of 8) • Green/short spacers (set of 8) • Yellow/long spacers (set of 8) 		



Benchtop Centrifuge 24V

CARDINAL HEALTH - Experience reliability and flexibility in our largest capacity centrifuge. The 24V holds up to 24 tubes from 3–10 mL (75–100 mm) capacity with the included rotor and tube holders and can hold 12 tubes of 15 mL (125 mm) capacity or 6 tubes of 50 mL capacity with additional accessories (sold separately).

This versatile centrifuge offers complete control over cycle parameters including time, speed, braking and acceleration. Once a cycle is started, the clear digital display shows the time remaining.

With horizontal separation at a maximum speed of 2,000 x g (3,400 rpm), the 24V is suited to a variety of lab needs. Arrives ready to run with rotor and tube holders included. Designed, built and supported in the USA.

Specifications:

Maximum capacity.....	Up to twenty-four (24) 10 mL tubes, Up to twelve (12) 15 mL tubes, Up to six (6) 50 mL tubes
Speed range	1,715–3,400 rpm
RCF range	500–2,000 x g
Centrifuge motor	1/2 H.P. Brushless DC
Timer	Electronic, w/hold or 1 to 99 minutes
Maximum acceleration time.....	15 seconds
Maximum deceleration time	15 seconds
Power requirement	115–230 V (± 10), 50/60 Hz, 200 W
Dimensions: (H x W x D)	9 x 14.5 x 17 in.
Weight	35 lbs. (17.7 kg)

Intended use..... Serology, STAT, platelet poor plasma (PPP), platelet rich plasma (PRP), coagulation, clinical chemistry, cytology, urinalysis and general cell/tissue processing

Cat. No.	Description	Qty.
CA00718	Centrifuge 24V, 24-place horizontal rotor	1/ea
24V model includes:		
<ul style="list-style-type: none"> • Fixed angle rotor • Six (6) 4-place buckets for 75–100 mm tubes (holds a total of 24 tubes) 		
Accessories		
7713037	50 mL purple carrier	1/ea
7713023	75–100 mm 4-place carrier	1/ea
7713035	Carrier cap	1/ea
7713068	Tube adapters, 0.5 to 1 mL	1/ea
7713065	Tube adapters, 1.5 to 2 mL	1/ea

Centrifuges and Accessories

Centrifuges/Microcentrifuges



Benchtop Centrifuge Horizon 6 Flex

CARDINAL HEALTH - Compact, powerful, and versatile: the Cardinal Health™ HORIZON 6 Flex offers complete control over cycle parameters in a small footprint. Program up to 10 custom presets, or use the intuitive digital display to quickly customize run time, speed, and braking as needed.

Track your cycle status with convenient bright LED lid lighting: on when the centrifuge is running, flashing when tubes are ready to be unloaded and off when the centrifuge is ready for its next load. The digital display also becomes a countdown clock once the spin begins, allowing precise tracking of cycle progress.

The rotor and tube holders allow samples to be loaded vertically and then swing out to spin horizontally. The centrifuge can spin up to 6 tubes from 3–10 mL (75–100 mm) with no need to change rotor or tube holders. Maximum force of 2,000 x g (3,800 rpm) in a small, benchtop footprint with no routine maintenance. Designed, built and supported in the USA.

Specifications:

Maximum capacity.....6 x 10 mL (60 mL)

Maximum speed.....3,800 rpm

Maximum RCF2,000 x g

Power requirements95–253 V, 50/60 Hz

Dimensions: (H x W x D)9 x 12 x 14 in.

Weight12 lbs. (5.4 kg)

WarrantyTwo-year warranty

Intended use.....Platelet poor plasma, platelet rich plasma, coagulation, clinical chemistry, urine sedimentation and specialty applications

Cat. No.	Description	Qty.
CA376009	Centrifuge HORIZON 6 Flex, 6-place horizontal rotor	1/ea
6 Flex model includes:		
• Horizontal rotor • Six (6) 75–100 mm tube holders		

Accessories

79-009-001	SmartView™ platform	1/ea
7713068	Tube adapters, 0.5 to 1 mL	1/ea
7713065	Tube adapters, 1.5 to 2 mL	1/ea



Benchtop Centrifuge Horizon 6 Flex FA

CARDINAL HEALTH - Similar to the Cardinal Health™ HORIZON 6 Flex, the HORIZON 6 Flex FA offers fixed angle centrifugation with cycle control in a small footprint. Cycle settings are easily controlled via an intuitive user interface with digital display screen, and can be programmed into one of 10 presets or customized on the fly. Delivering forces of up to 1,850 x g (3,900 rpm), the HORIZON 6 Flex FA can spin up to 6 tubes of 15 mL (125 mm) with the included rotor and tube holders.

Once the cycle begins, LED lid lighting provides a visual status update: on when the centrifuge is running, flashing when tubes are ready to be unloaded and off when the centrifuge is ready for its next load. The digital screen also functions as a countdown timer.

A compact fixed angle countertop centrifuge with no routine maintenance, the Cardinal Health™ HORIZON 6 Flex FA is ideal when fixed angle centrifugation is desired, or specimens will be analyzed on site. The centrifuge arrives ready to run, with rotor and tube holders included. Designed, built and supported in the USA.

Specifications:

Maximum capacity.....Up to six (6) 10 mL/17 x 75 mm,

Up to six (6) 10 mL/17 x 100 mm,

Up to six (6) 15 mL/17 x 125 mm

Maximum speed.....3,900 rpm

Maximum RCF1,850 x g

Power requirements115–230 V, 50/60 Hz

Dimensions: (H x W x D)9 x 12 x 14 in.

Weight12 lbs. (5.4 kg)

Intended use.....Blood chemistry specimens, urine, platelet rich plasma (PRP) and platelet poor plasma (PPP)

Cat. No.	Description	Qty.
CA3760091	Centrifuge HORIZON 6 Flex FA, 6-place fixed angle rotor	1/ea
6 Flex FA model includes:		
• Fixed angle rotor • Six (6) 75–100 mm tube holders • Six (6) 125 mm tube holders		

Accessories

79-009-001	SmartView™ platform	1/ea
7713068	Tube adapters, 0.5 to 1 mL	1/ea
7713065	Tube adapters, 1.5 to 2 mL	1/ea

Centrifuges and Accessories

Centrifuges/Microcentrifuges



Benchtop Centrifuge Horizon 24 Flex

CARDINAL HEALTH - Enjoy reliability, capacity, and flexibility with the Cardinal Health™ HORIZON 24 Flex. Capable of holding 24 tubes of 3–10 mL (75–100 mm) in size with the included rotor and tube holders, the CHB HORIZON 24 Flex can hold 12 tubes of 15 mL (125 mm) capacity or 6 tubes of 50 mL capacity in alternate tube holders (sold separately).

Set your cycle parameters using the intuitive digital display, allowing adjustment of speed, time, and deceleration on the fly – or program your preferred settings in one of the 10 available presets. Once the cycle starts, track progress at a glance with the bright, clear LED lid lighting: on when the centrifuge is running, flashing when tubes are ready to be unloaded, and off when the centrifuge is ready for its next load. In addition, the digital timer becomes a countdown clock during the cycle for exact monitoring.

Designed to require no routine maintenance, the Cardinal Health™ HORIZON 24 Flex is a workhorse in any routine lab, capable of meeting diverse sample processing needs. Provides force of up to 2,000 x g (3,400 rpm) with horizontal swing-bucket centrifugation, allowing for a vertical load and horizontal run. Designed, built and supported in the USA.

Specifications:

Maximum capacity.....	Up to twenty-four (24) tubes
Maximum speed.....	3,400 rpm
Maximum RCF	2,000 x g
Power requirements	95–253 V, 50/60 Hz
Dimensions: (H x W x D)	9 x 15 x 17 in.
Weight	39 lbs. (17.7 kg)
Intended use	Serology, STAT, platelet poor plasma (PPP), platelet rich plasma (PRP), coagulation, clinical chemistry, cytology, urinalysis and general cell/tissue processing

Cat. No.	Description	Qty.
CA384009	Centrifuge HORIZON 24 Flex, 24-place horizontal rotor	1/ea
24 Flex model includes:		
<ul style="list-style-type: none"> • Horizontal rotor • Six (6) 4-place buckets for 75 and 100 mm tubes (holds a total of 24 tubes) 		

Accessories

7713037	50 mL purple carrier	1/ea
7713023	75 to 100 mm 4-place carrier	1/ea
7713035	Carrier cap	1/ea
7713068	Tube adapters, 0.5 to 1 mL	1/ea
7713065	Tube adapters, 1.5 to 2 mL	1/ea



Benchtop STAT Centrifuge DASH 6

CARDINAL HEALTH - Improve turnaround time for your STAT samples with the Cardinal Health™ DASH 6. Delivering a maximum RCF of 4,000 x g (5,300 rpm), the DASH 6 is built for STAT. As it runs, its bright LED lid light shows cycle status at a glance: on when running, off when ready to use and flashing when done. This unique visual indicator can greatly reduce forgotten tubes, especially in noisy labs.

The DASH 6 has an easy to use interface with three pre-programmed settings to meet varying STAT lab needs. If desired, these presets can be customized to a lab's validated settings. Small yet powerful, the DASH 6 fits in accessioning and can be used in an array to cut down on wait time and shorten TAT.

The included horizontal rotor and universal tube holders accommodate 6 tubes from 3–10 mL (75–100 mm) capacity without any change in equipment configuration. Designed, built and supported in the USA.

Specifications:

Maximum capacity.....	6 tubes – 3 to 10 mL
Maximum Speed.....	5,300 rpm
Maximum RCF	4,000 x g
Motor	1/2 HP brushless DC motor
Timer.....	Electronic, 1 to 30 minutes
Power requirement	95–253 V, 50/60 Hz
Dimensions: (H x W x D)	8 x 11 x 13.5 in.
Weight	12 lbs. (5.4 kg)
Warranty	Two-year warranty
Intended use	STAT chemistry, coag and pediatric tubes

Factory Presets

Cycle	RPM	Time	G-Force
3 min	5,300	3	4,000
5 min	5,300	5	4,000
Custom	3,800	7	2,000

Cat. No.	Description	Qty.
CA076104	STAT centrifuge DASH 6, 6-place horizontal rotor	1/ea
DASH 6 model includes:		
<ul style="list-style-type: none"> • Horizontal rotor • Six (6) 75–100 mm tube holders 		

Accessories

7713068	Tube adapters, 0.5 to 1 mL	1/ea
7713065	Tube adapters, 1.5 to 2 mL	1/ea

Centrifuges and Accessories

Centrifuges/Microcentrifuges



Benchtop STAT Centrifuge Dash 12

CARDINAL HEALTH - Improve STAT performance in the mid-size lab with the Cardinal Health™ Benchtop STAT Centrifuge DASH 12. Simplify operation with the unique two-button interface, allowing technicians to easily switch between the DASH 12's three presets.

As the centrifuge runs, the bright LED lid light indicates the cycle status: off when ready to load, on when running and flashing when complete. This bright illumination is an easy signal even in the noisiest labs.

Spinning at a STAT-ready 4,000 x g (5,200 rpm) maximum, the DASH 12 can hold up to 12 tubes from 3–10 mL (75–100 mm). Compact and lightweight, it can fit easily into accessioning for faster tube loading, or be used in an array to drive down queue times. The unit arrives ready to run with rotor and tube holder included. Designed, built and supported in the USA.

Specifications:

Maximum capacity.....	12 tubes – 3 to 10 mL
Maximum speed.....	5,200 rpm
Maximum RCF.....	4,000 x g
Motor	1/2 HP brushless DC motor
Timer.....	Electronic, 1 to 30 minutes ±1%
Power requirement	95–253 V, 50/60 Hz
Dimensions: (H x W x D)	9 x 12.5 x 14.75 in.
Weight	34 lbs. (15 kg)
Warranty	Two-year warranty
Intended use	STAT chemistry, coag and pediatric tubes

Factory Presets

Cycle	RPM	Time	G-Force
3 min	5,200	3	4,000
5 min	5,200	5	4,000
Custom	3,600	7	2,000

Cat. No.	Description	Qty.
CA00717	STAT centrifuge DASH 12, 12-place horizontal rotor	1/ea
DASH 12 model includes:		
	• Horizontal rotor	
	• Twelve (12) 75–100 mm tube holders	

Accessories

7713068	Tube adapters, 0.5 to 1 mL	1/ea
7713065	Tube adapters, 1.5 to 2 mL	1/ea



Benchtop STAT Centrifuge Dash Flex 12

CARDINAL HEALTH - The DASH Flex 12 is the most flexible STAT centrifuge in the DASH product line. Offering complete control over time, rpm, and g force, cycle parameters can be adjusted on the fly, or saved as one of 10 presets for easy recall. A bright, clear display makes it easy to select and set all parameters.

Once the centrifuge begins spinning, the CHB DASH Flex 12 shows cycle status at a glance, even in the noisiest labs, with the unique lid illumination system. High-visibility lighting is on when the centrifuge is running, flashing when tubes are ready to be unloaded, and off when the centrifuge is ready for its next load. In addition, once the cycle begins, the display shows a countdown clock to completion.

The DASH Flex 12 delivers STAT performance with force of up to 4,000 x g (5,200 rpm). Capable of holding up to 12 tubes from 3–10 mL (75–100 mm) with no need to change rotor or tube holders, the centrifuge can be placed in accessioning or used as part of an array to further reduce TAT. Ready to run right out of the box, the CHB DASH Flex 12 does not require the purchase of any additional rotors or tube holders. Designed, built and supported in the USA.

Specifications:

Maximum capacity.....	12 tubes – 3 to 10 mL
Maximum speed.....	5,200 rpm
Maximum RCF.....	4,000 x g
Power requirement	95–253 V, 50/60 Hz
Dimensions: (H x W x D)	9 x 13 x 15 in.
Weight	30 lbs. (13.7 kg)
Warranty	Two-year warranty
Intended use	STAT chemistry, coag and pediatric tubes

Cat. No.	Description	Qty.
CA183009	STAT centrifuge DASH Flex 12, 12-place horizontal rotor	1/ea

DASH Flex 12 model includes:

- Horizontal rotor
- Twelve (12) 75–100 mm tube holders

Accessories

7713068	Tube adapters, 0.5 to 1 mL	1/ea
7713065	Tube adapters, 1.5 to 2 mL	1/ea

Centrifuges and Accessories

Centrifuges/Microcentrifuges

Mini Centrifuge

CARDINAL HEALTH - The Mini Centrifuge is ideal for quick spin downs of microtubes and PCR tubes. Speed quickly reaches 6,000 rpm.

The Click-n-Lok instant rotor attachment eliminates the requirement for set screws and tools during rotor exchange: simply remove and attach rotors by hand, pulling or pressing the rotor onto the motor shaft.

- Eight position microtube rotor
- Storage compartment for PCR rotor and 0.5 mL adapters
- Decelerate in just one second
- Clear or red lid available



8-place rotor comes preinstalled.

Specifications

Capacity 8 x 1.5/2 mL, 32 x 0.2 mL or 4 x PCR strips
 Maximum speed 6,000 rpm
 Maximum RCF 2,000 x g
 Maximum radius 1.77 in. (49 mm)

Power requirement 20 V to 240 V, 50/60 Hz
 Dimensions: (H x W x D) 4.5 x 5.7 x 6.9 in.
 Warranty One-year warranty

Cat. No.	Description	Qty.
CHC1008-C	Mini centrifuge, clear lid 100-240 V	1/ea
CHC1008-R	Mini centrifuge, red lid 100-240 V	1/ea
CHC1005-A2	Replacement adapter pack, 0.2 mL	1/ea
CHC1008-A5	Replacement adapter pack, 0.5 mL	1/ea
CHB1000-RE	Replacement heating element, 230 V	1/ea

High Speed Microcentrifuge

CARDINAL HEALTH - The High Speed Microcentrifuge has a 12-place rotor and provides nearly silent operation. It has a compact, low profile design and it starts and stops with the closing or opening of the lid.

This high-speed microcentrifuge eliminates the need to change rotors when switching between microtubes and PCR strips (12 microtubes and/or 4 (8-position) PCR strips). It operates with fixed speed that produces 2,000 x g – simply close the lid and the unit quickly ramps up to 5,500 rpm.

Specifications:

Maximum capacity 12 x 1.5/2 mL tubes
 Maximum speed 15,500 rpm
 Maximum RCF 16,100 x g
 Timer 20 sec. ~ 99 min./continuous or momentary
 Maximum permitted density 1.2 g/mL
 Acceleration time 12 seconds
 Braking time from maximum speed 10 seconds
 Ambient temperature 35.6°F – 95°F (2°C – 35°C)
 Power requirement 100~120 V/200~240 V, 50/60 Hz, 100 W
 Dimensions: (H x W x D) 5.9 x 8.7 x 10.6 in.
 Weight 34.1 lbs. (15.5 kg)
 Warranty Two-year warranty



Cat. No.	Description	Qty.
CHC1612	High speed microcentrifuge 12-place rotor	1/ea
CHC1008-61	Adapters for 0.2 mL tubes	1/ea
CHC1008-6	Adapters for 0.5 mL tubes	1/ea

Centrifuges and Accessories

Centrifuges/Microcentrifuges

Azer Mini Centrifuges

AZER SCIENTIFIC - These personal centrifuges quickly reach 7,000 rpm upon closing the lid. The small size makes them the perfect choice for quick spin downs right at your workspace. Simply open the lid and the rotor quickly decelerates to a stop. An 8-place microtube rotor is included and comes installed. A second rotor for 0.2 mL PCR tubes and strips are also included and stored with the rotor removal key in a convenient compartment on the bottom of the centrifuge.



Specifications:

Maximum capacity 8 x 1.5 to 2 mL tubes or 2 x PCR strips
 Maximum speed 7,000 rpm
 Maximum RCF 2,680 x g
 Dimensions (W x D x H) 6 x 6 x 5 in.

Cat. No.	Mfr. No.	Description	Qty.
ESCSMB120V	ESCSMB120V	Blue lid	1/ea
ESCSMT120V	ESCSMT120V	Teal lid	1/ea



Spectrafuge 24D Microcentrifuge

AZER SCIENTIFIC - Precision controls and digital display makes the unit user-friendly. Quiet and cool running. Set and view speed in rpm or g-force. Features an easy access 24-place rotor for 1.5 mL tubes. Safe to use in cold room.

Specifications:

Ambient operating range 4°C to 35°C
 Maximum capacity 24 x 1.5/2 mL microcentrifuge tubes
 Maximum RCF 16,300 x g
 Maximum speed 500 to 13,300 rpm
 Timer 1 to 30 minutes or continuous
 Dimensions 9.25 x 11.5 x 8.5 in.

Cat. No.	Mfr. No.	Description	Qty.
ESC24B120V	ESC24B120V	24D Microcentrifuge with 24 x 1.5 mL rotor - blue	1/ea

Z100A Compact Variable-Speed Clinical Centrifuge

AZER SCIENTIFIC - Ideal for use in a clinical setting or research lab, this variable-speed centrifuge runs up to 4,000 rpm. It features a clear lid that enables you to view the rotor and includes a safety lock feature that cuts power to the centrifuge when you open the lid. The easy-to-clean, rugged ABS housing adds durability. The centrifuge includes a 6 x 15mL fixed-angle rotor that accepts six 10 or 15mL tubes directly. Adapters that accept smaller tubes are available separately.



Specifications:

Maximum capacity 6 x 15 mL tubes
 Maximum speed 4,000 rpm
 Maximum RCF 1,900 x g
 Dimensions (W x D x H) 11 x 13.75 x 10.2 in.
 Power requirements 120 V, 50/60 Hz

Cat. No.	Mfr. No.	Description	Qty.
ESCZ100A	ESCZ100A	Z100A compact centrifuge	1/ea
ESC020017A	ESC020017A	Combination adapter for 5 mL, 7 mL and 10 mL tubes	6/pk



Z206A Compact Centrifuge

AZER SCIENTIFIC - This compact centrifuge is ideal for both clinical and research laboratories. The large display on the centrifuge's modern control panel, along with the precise control of the microprocessor allows for control over 10 levels of acceleration, deceleration and an imbalance sensor.

Cat. No.	Mfr. No.	Description	Qty.
ESC206A120	ESC206A120V	Z206A Compact centrifuge - without rotor	1/ea
ESC20096	ESC20096	Angle rotor for 12 x 15 mL tubes	1/ea

Centrifuges and Accessories

Centrifuges/Microcentrifuges

Accessories for Z300 Centrifuge

AZER SCIENTIFIC

Cat. No.	Mfr. No.	Description	Qty.
Swing-out rotors			
ESC30016	ESC30016	With 2 microplate carriers, 2,762 x g maximum	1/ea
Inserts for swing-out rotor ESC32371			
ESC320724	ESC320724	For 4 x 10 mL (16, 17 x 100 mm) tubes	1/ea
Carriers for Z300 models			
ESC300122	ESC300122	For 1 x 50 mL conical tubes	1/ea



BD Dynac™ III Multispeed Centrifuge

BD DIAGNOSTICS - This multipurpose BD Dynac™ III centrifuge is designed for clinical laboratories performing separations in hematology, chemistry, urinalysis, blood banking, microbiology and cytology. The Dynac™ III delivers digitally precise, variable speed which is microprocessor controlled. The centrifuge is user programmable by speed, RCF and time. It is compact and portable and fits into most laboratory refrigerators. It can be used with interchangeable rotors and has a continuously adjustable electronic speed control and electronic tachometer, which permits the selection of a wide range of operating speeds. A zero speed switch, fail-safe positive cover lock and other safety features are incorporated for maximum operator protection. Ten programmable memory locations are available for storage of time and speed settings. Also features a one-piece aluminum guard bowl made of heavy gauge construction and rubber feet bolted to the bottom of the base plate to absorb vibrations. A variety of rotors and accessories for use with the centrifuge are available separately.

Specifications:

Maximum capacity.....4 x 100 mL
 Maximum speed.....3,530 rpm (swing-out), 4,000 rpm (fixed-angle)
 Maximum RCF2,456 x g (swing-out), 2,509 x g (fixed-angle)
 Dimensions.....12.5 x 16 x 19 in.
 Power requirements120 V, 60 Hz, 6 A

Cat. No.	Mfr. No.	Description	Qty.
C1420-1A	420104	BD Dynac™ III centrifuge	1/ea



BD Sero-Fuge™ 2000 Centrifuges

BD DIAGNOSTICS - The BD Sero-Fuge™ 2000 Centrifuges are extra-quiet, easy-to-use centrifuges that can accommodate a wide range of tube sizes for blood grouping, typing, cross matching and other cell-washing procedures. The tubes in the head swing out to an angle of 45° in motion and assume a vertical position when the centrifuge is at rest. The interchangeable heads serve as holders in which tubes can be filled, centrifuged, transported, incubated and emptied without individual handling. Tube positions are numbered for quick identification

The BD Sero-Fuge™ 2000 Centrifuges feature a molded polycarbonate base and lid with a white polyurethane enamel finish. All are shock mounted on four cushioning rubber feet and feature an induction-type motor and special airflow design to minimize sound and vibration. As an additional safety measure, the locking cover with the lid seal gasket cannot be opened until the rotor has stopped. The on-board tachometer and solid-state digital timer help ensure precise control.

Other features include user-controlled end-of-cycle alarm, user-controlled brake, a timer/reset button and a cycle repeat/recall button. Interior and exterior are ergonomically designed for easy operation, cleaning and maintenance. The BD Sero-Fuge™ 2000 Centrifuges come complete with 12-place head and a 6 ft. heavy-duty, strain-relieved three-conductor cord. Choose a fixed-speed (3,550 rpm) or dual-speed (2,450 and 3,550 rpm) model. Fixed-speed centrifuge is available in 115 and 230 V models; dual-speed centrifuge is 115 V.

Specifications:

Maximum capacity.....12 x 75 mm
 Maximum speed.....3,550 rpm
 Maximum RCF1,000 x g
 Dimensions (L x W x H)17 x 13 x 12 in.
 Power requirements115 or 230 V, 60 Hz

Cat. No.	Mfr. No.	Description	Qty.
B5061-1	420351	Fixed-speed model 2001, 115 V	1/ea
B5061-1D	420354	Fixed-speed model 2001, 230 V	1/ea
B5061-2	420352	Dual-speed model 2002, 115 V	1/ea

Centrifuges and Accessories

Centrifuges/Microcentrifuges



BD Triac™ Combination Centrifuge

BD DIAGNOSTICS - The BD Triac™ Combination Centrifuge is used for direct reading of microhematocrit determinations, plasma/serum separation from blood collection tubes and urine sedimentation. This centrifuge features three push-button modes: urine, blood and microhematocrit. After you select a spin time, the timer stays set for all subsequent operating cycles until it is reset.

The unit accommodates 12 microhematocrit tubes up to 75 mm, eight 17 x 120 mm conical centrifuge tubes or eight 7, 10 or 15 mL vacuum blood collection tubes. Adapters are available for spinning 2 or 3 mL vacuum blood collection tubes. Four interchangeable trunnions hold two tubes each. Features include a push-button brake, lid safety lock, built-in microhematocrit reader and see-through cover. The unit comes complete with a head, four trunnions and 200 precalibrated BD SurePrep™ capillary tubes.

Specifications:

Maximum capacity Urine - 8 x 120 mm, blood - 8 x 15 mL,
Microhematocrit - 12 x 75 mm

Maximum speed Urine - 2,300 rpm, blood - 3,500 rpm,
Microhematocrit - 10,400 rpm

Maximum RCF Urine - 660 x g, blood - 1,500 x g,
Microhematocrit - 12,600 x g

Dimensions (Dia. x H x D) 12 x 10 x 14 in.

Power requirements 120 V, 60 Hz

Cat. No.	Mfr. No.	Description	Qty.
B4389-1	420200	BD Triac™ centrifuge	1/ea



LC-8™ Series Centrifuges

BENCHMARK - LC-8™ Series Centrifuges have an eight-position rotor included and designed to directly accept 10 mL and 15 mL test tubes (conical or round bottom), while optional adapters are also available for use with all popular sizes of blood collection and culture tubes. The rotor can be easily removed from the chamber for cleaning. Back-lit, liquid crystal display provides full control over the set run time and rotational speed. The rotational speed can be set/viewed in RPM or RCF and acceleration/deceleration levels can be easily adjusted in the advanced settings mode. To ensure safety, the digital microprocessor ensures that the lid has been closed and that the safety lid lock is engaged prior to starting a centrifugation cycle. In addition, an advanced imbalance detection system constantly monitors the balance and vibration, automatically bringing the rotor to a stop if an imbalance is detected.

Specifications:

Speed range LC-8: 400–3,500 rpm (1,500 x g)
LC-8 Plus: 400–5,000 rpm (3,070 x g)

Max. capacity 8 x 15 mL

Timer range 20 sec. to 99 min.

Power requirement 115 V or 230 V, 50/60 Hz, 150 W

Dimensions (W x D x H) 11.6 x 14.4 x 8.3 in.

Cat. No.	Mfr. No.	Description	Qty.
C3100BS	C3100	LC-8 - 3,500 rpm, 115 V	1/ea
C3101BS	C3101	LC-8 - 3,500 rpm, 230 V	1/ea
C3102BS	C3102	LC-8 Plus - 5,000 rpm, 115 V	1/ea
C3103BS	C3103	LC-8 Plus - 5,000 rpm, 230 V	1/ea
C3104BS	C3104	Adapter pack - accepts 2, 5, 7 mL tubes	1/ea

Centrifuges and Accessories

Centrifuges/Microcentrifuges

Model 614B Fixed-Angle Centrifuge

DRUCKER - With a single g-force setting and adjustable mechanical timer, the 614B provides runtime flexibility and fixed angle processing at an affordable price. Use anywhere specimens are analyzed on site. With a single g-force setting of 1,100 x g and time controlled by a mechanical dial, the 614B offers affordability and runtime flexibility. The unit arrives ready to run, with rotor and tube holders included.

Supported by a two year warranty with lifetime rotor warranty. Made in the USA by Drucker Diagnostics.



Specifications:

Maximum capacity.....	6 x 15 mL
Speed	3,250 rpm
RCF.....	1,100 x g
Tube sizes	0.5 to 15 mL; up to 17 x 125 mm
Power requirement	115 V, 60 Hz, 4 A
Dimensions: (H x W x D)	8.75 x 11.75 x 14 in.

Cat. No.	Mfr. No.	Description	Qty.
614B	00-004-009-001	Fixed-angle centrifuge	1/ea

Replacement tube holders

7713033	7713033	75 mm tube holder - green	1/ea
7713031	7713031	100 mm tube holder - red	1/ea



Our focus is on
your lab.

Model 642M Centrifuge

DRUCKER - The 642M facilitates efficient routes and longer range for mobile phlebotomists by providing centrifugation in the vehicle. Spin specimens within two hours of draw and run the most convenient route without the need to return to the central lab. Powered directly from a vehicle's 12 V electrical supply, the 642M provides horizontal centrifugation for high quality gel tube separation and two-button operation for maximum repeatability.



With a simple, one-button interface, the 642M processes samples at a consistent 10 minutes at 3,400 rpm/1,600 x g. The unit arrives ready to run, with rotor and tube holders included. Supported by a two year warranty with lifetime rotor warranty. Made in the USA by Drucker Diagnostics.

Specifications:

Maximum capacity.....	6 x 10 mL
Tube sizes	3 to 10 mL; up to 17 x 100 mm
Speed	3,400 rpm
RCF.....	1,600 x g
Power requirement	12 V DC, 100 W
Dimensions (H x W x D).....	8.75 x 11.75 x 14 in.

Cat. No.	Mfr. No.	Description	Qty.
77-009-000	00-077-009-000	Mobile single speed centrifuge - electronic timer	1/ea

Replacement tube holders

7713033	7713033	75 mm tube holder - green	1/ea
7713031	7713031	100 mm tube holder - red	1/ea

Centrifuge Accessories

DRUCKER

Cat. No.	Mfr. No.	Description	Qty.
9150-DC	9150	1/4 in. cushion spacer	1/ea
1525-DC	1525	1 in. cushion spacer	1/ea
7735049	7735049	Centrifuge Horizon 642 PSC motor	1/ea
7713068	7713068	Tube adapters, 0.5 to 1 mL	1/ea
7713065	7713065	Tube adapters, 1.5 to 2 mL	1/ea
7713064	7713064	Tube insert, 13 x 75 mm	1/ea
7713066	7713066	Tube insert, 13 x 100 mm	1/ea
7713083	7713083	75-100 mm tube holder (APEX)	1/ea



HemataSTAT II® Microhematocrit Centrifuge

EKF DIAGNOSTICS - This whisper-quiet device will spin up to six capillary tubes in only 60 seconds. It has an easy-to-use, built-in tube reader that provides an electronic display of test results. For operator safety, the unit has a locking lid and a gasket seal for aerosol protection. Also, disposable transparent tube holders are used for the capillary tubes while spinning to minimize contact with specimens. Standard 75 mm capillary tubes with either a 1.1 mm or 0.5 mm I.D. can be spun and read on the device. Capillary tubes C1801-15 require HemataSEAL® tube sealant. Operates on AC current or with an optional rechargeable battery (available separately) to enhance its usefulness in remote locations. Designed to fit almost any lab location. Dimensions (W x L x H): 7 x 11 x 5 in.

Cat. No.	Mfr. No.	Description	Qty.
C1801-1	100-100	HemataSTAT II® centrifuge	1/ea
C1801-12	230-100	Tube holders	50/pk
270-106	270-106	ClearCRIT® 100% plastic capillary tubes, 1.1 mm I.D.	1,000/bx
270-107	270-107B	ClearCRIT® 100% plastic capillary tubes, 0.5 mm I.D.	1,000/bx
C1801-15	270-108	ClearCRIT® Mylar®-wrapped capillary tubes, 1.1 mm I.D.	1,000/bx
C1806-22	260-100	HemataSEAL® tube sealant	10/bx
C1806-23	270-109	ClearCRIT® Mylar®-wrapped self-sealing capillary tubes, 1.1 mm I.D.	2,000/bx



Micro12™ Microcentrifuge

EKF DIAGNOSTICS - Use this microcentrifuge for a variety of applications, including quick spindowns, microfiltrations and small-volume blood and urine separations. It includes a fixed-angle rotor that accommodates eighteen 2 mL tubes directly or tubes up to 0.5 mL in size with adapters. The microcentrifuge also features a 60 minute timer and a locking mechanism that prevents the lid of the microcentrifuge from being opened while the rotor is spinning.

Specifications:

Maximum capacity 18 x 2 mL
 Maximum speed 14,000 rpm
 Maximum RCF 16,000 x g
 Dimensions (W x D x H) 8.25 x 8.9 x 7.6 in.

Cat. No.	Mfr. No.	Description	Qty.
C1801-24	100-152	Microcentrifuge	1/ea

Disposable Tube Holders for PlasmaPrep® Centrifuge

EKF DIAGNOSTICS - Use these tube holders instead of adapters and cushions. In case of breakage, simply discard the holder and the tube. There's no need to clean the centrifuge bowl or to have contact with the specimen. Tube holders promote rotor balancing and are color-coded for convenience. Reusable. 25 tube holders per package.

Cat. No.	Mfr. No.	Description	Qty.
B4360-12	230-112	Use with 13 x 75 mm, blue, rubber stopper	25/pk
B4360-15	230-115	Use with 13 x 100 mm, gold, plastic top	25/pk

Centrifuges and Accessories

Centrifuges/Microcentrifuges



Eppendorf® Centrifuge Model 5702

EPPENDORF - The economical centrifuge for clinical and cell culture labs. With various fixed-angle and swing-bucket rotors and an extensive range of adapters, virtually all types of tubes can be used. The ventilation system of this model was specifically designed to minimize sample warming—even under constant use.

- Compact footprint to fit on every lab bench
- Whisper-quiet operation to benefit your work environment
- Soft-touch, one-finger lid closure for ergonomic operation
- Low access height for easy loading and unloading
- Digital display and automatic RPM/RCF conversion for reproducible parameter settings
- Soft brake option for slow acceleration and braking optimized for cell separation by gradient centrifugation
- Key lock option to prevent accidental parameter changes
- Imbalance detection for maximum safety
- Stainless steel rotor chamber is rust-proof and easy-to-clean
- 2-year warranty

Clinical package includes: the centrifuge, a 4 x 100 mL swing-bucket rotor with round buckets, 4 adapters for blood tubes with an outer diameter of 13 mm and 4 adapters for 16 mm tubes.

Cell culture package includes: the centrifuge, a 4 x 100 mL swing-bucket rotor with round buckets, 4 adapters for 15 mL conical tubes and 4 adapters for 50 mL conical tubes.

Specifications:

Capacity 4 x 100 mL, 30 x 15 mL

Maximum speed 100–4,400 rpm

Maximum RCF 3,000 x g

Dimensions (W x D x H) 12½ x 16 x 9½ in.

Cat. No.	Mfr. No.	Description	Qty.
C3514-68	022626001	5702 without rotor - 120 V	1/ea
C3514-475	022629883	5702 with 4 x 100 mL swing bucket rotor - 120 V	1/ea
226-28001	022628001	5702 clinical package	1/ea
226-28102	022628102	5702 cell culture package	1/ea



Eppendorf® Refrigerated Centrifuge Model 5702 R and Refrigerated and Heated Model 5702 RH

EPPENDORF - Refrigerated centrifuge 5702 R was developed with the safety of your samples in mind. The compressor at the back of the centrifuge keeps the footprint small and the access height low. It is equipped with the latest innovations in cooling technology for accurate temperature control and energy efficiency. Model 5702 RH allows centrifugation under biological conditions to improve cell viability for more accurate results in downstream applications (e.g., cell transfection, IVF).

Product features (in addition to features listed for 5702):

- Virtually silent operation (<45 dB(A))
- 2 programming keys to store routine procedures
- FastTemp function for fast and accurate pre-cooling
- Standby cooling keeps centrifuge at programmed temperature
- ECO shut-off reduces energy consumption
- Built-in condensation drain to eliminate water accumulation
- 2-year warranty

Clinical package includes: the centrifuge, a 4 x 100 mL swing-bucket rotor with round buckets, 4 adapters for blood tubes with an outer diameter of 13 mm and 4 adapters for 16 mm tubes.

Cell culture package includes: the centrifuge, a 4 x 100 mL swing-bucket rotor with round buckets, 4 adapters for 15 mL conical tubes and 4 adapters for 50 mL conical tubes.

Specifications:

Capacity 4 x 100 mL, 30 x 15 mL

Maximum speed 100–4,400 rpm

Maximum RCF 3,000 x g

Temperature range –9°C to 40°C (RH: –9°C to 42°C)

Dimensions (W x D x H) 15 x 22.8 x 10.2 in.

Cat. No.	Mfr. No.	Description	Qty.
Model 5702 R and accessories			
226-26205	022626205	5702 R without rotor, 120 V	1/ea
C3514-476	022629905	5702 R with 4 x 100 mL swing bucket rotor - 120 V	1/ea
226-28012	022628012	5702 R clinical package	1/ea
226-28113	022628113	5702 R cell culture package	1/ea
Model 5702 RH and accessories			
C3514-467	022626213	5702 RH refrigerated and heated centrifuge, 120 V	1/ea
226-28023	022628023	5702 RH clinical package	1/ea
226-28124	022628124	5702 RH cell culture package	1/ea

Centrifuges and Accessories

Centrifuges/Microcentrifuges



Eppendorf® Multipurpose Centrifuges 5804/5804 R and 5810/5810 R

EPPENDORF - Eppendorf centrifuges 5804/R and 5810/R offer high quality and reliability with cost-efficient solutions for your mid- to high-throughput applications—now and in the future. Whether your applications require spinning many tubes at a time or centrifugation of larger volume vessels at high speed, these multipurpose centrifuges with their variety of rotors and adapters cover virtually any application in tubes, bottles, flasks and microplates. They feature the benefits of three centrifuges in one: a high-capacity centrifuge for cell culture and clinical applications, a high-speed centrifuge for separating cell lysates and a microcentrifuge for nucleic acid purification.

- Low sound level to benefit your work environment
- Low-profile design for easy loading/unloading
- Centrifuge lid with soft-touch lid closure and low opening height for stress-free lid locking
- Compact footprint saves valuable bench space
- Low lid opening height for use under shelves
- Short depth and low weight for a multipurpose centrifuge allows placement on standard laboratory benches
- 120 V power supply for use on standard outlets provides maximum placement flexibility
- Compliant to international safety standards—no need to bolt the unit to the table
- Automatic rotor recognition and imbalance detection for maximum operational safety
- The user can enter speed, RCF and radius correction values
- 10 acceleration and 10 braking ramps for sensitive sample material
- Selectable program memory for up to 34 individual user programs
- 2-year warranty

Clinical package includes: the centrifuge, a swing-bucket rotor with buckets, 4 adapters for blood tubes with an outer diameter of 13 mm and 4 adapters for 16 mm tubes.

Cell Culture package includes: the centrifuge, a swing-bucket rotor with buckets, 4 adapters for 15 mL conical tubes and 4 adapters for 50 mL conical tubes.

Centrifuges 5804/5804 R

These compact models are ideal for applications in deep well plates or for molecular applications in large volume tubes up to 100 mL (max. 15,500 x g). The optional 4 x 100 mL swing-bucket rotor adds flexibility and makes models 5804 and 5804 R winners for all low- to medium- throughput laboratories.

Specifications:

Capacity 6 x 100 mL, 4 x DWP
 Maximum speed 200–14,000 rpm
 Maximum RCF 20,800 x g
 Temperature range –9°C to 40°C
 Dimensions (W x D x H) 18 x 20 x 13 in. (5804), 25 x 20 x 13 in. (5804 R)

Centrifuges 5810/5810 R

These centrifuges are real workhorses for your mid- to high-throughput laboratory. Still equipped with a space-saving small footprint, they provide you high capacity for up to 4 x 500 mL bottles, 28 x 50 mL conical tubes or 16 x microplates—capacity you would normally find in much bigger centrifuges.

Specifications:

Capacity 4 x 500 mL, 4 x DWP
 Maximum speed 200–14,000 rpm
 Maximum RCF 20,800 x g
 Temperature range –9°C to 40°C
 Dimensions (W x D x H) 21 x 21 x 13 in. (5810), 28 x 21 x 13 in. (5810 R)

Cat. No.	Mfr. No.	Description	Qty.
Model 5804/5804 R and accessories			
226-22501	022622501	5804, without rotor, 120 V	1/ea
226-28034	022628034	5804 clinical package 4 x 100 mL	1/ea
226-28135	022628135	5804 cell culture package 4 x 100 mL	1/ea
226-23508	022623508	5804 R, without rotor, 115 V	1/ea
226-28045	022628045	5804 R clinical package 4 x 100 mL	1/ea
226-28146	022628146	5804 R cell culture package 4 x 100 mL	1/ea
Model 5810/5810 R and accessories			
226-25004	022625004	5810, without rotor, 115 V	1/ea
226-28056	022628056	5810 clinical package 4 x 250 mL	1/ea
226-28078	022628078	5810 clinical package 4 x 500 mL	1/ea
226-28157	022628157	5810 cell culture package 4 x 250 mL	1/ea
226-28179	022628179	5810 cell culture package 4 x 500 mL	1/ea
226-25501	022625501	5810 R, without rotor, 115 V	1/ea
226-28067	022628067	5810 R clinical package 4 x 250 mL	1/ea
226-28089	022628089	5810 R clinical package 4 x 500 mL	1/ea
226-28168	022628168	5810 R cell culture package 4 x 250 mL	1/ea
226-28180	022628180	5810 R cell culture package 4 x 500 mL	1/ea

Centrifuges and Accessories

Centrifuges/Microcentrifuges



Eppendorf® Microcentrifuge Model 5418

EPPENDORF - Centrifuge 5418 features 18-place capacity rotors are specifically designed for low to medium capacity in 1.5/2 mL tubes and Microtainers®. Speed of up to 16,873 x g allows for standard molecular biology and clinical applications.

- Compact footprint to fit on crowded lab benches
- OptiBowl® design allows for whisper-quiet operation without rotor lid to reduce handling time and benefit your work environment
- Centrifuge lid with a soft-touch closure for ergonomic operation
- Lid opens automatically at the end of the run to prevent sample warming and to allow easy access to samples
- QuickLock™ rotor lid for fast and reliable lid locking
- Rotor comes standard with an aerosol-tight lid for safe centrifugation of hazardous samples
- Large digital display and RPM/RCF conversion key for accurate and reproducible parameter settings
- FastTemp function for fast and accurate pre-cooling
- ECO shut-off reduces energy consumption
- Built-in condensation drain to eliminate water accumulation
- 2-year warranty

Specifications:

Capacity 18 x 1.5/2 mL
 Maximum speed 14,000 rpm
 Maximum RCF 16,873 x g
 Dimensions (W x D x H) 8.2 x 11.8 x 8.2 in.

Cat. No.	Mfr. No.	Description	Qty.
P5063-144	022620304	5418, with 18 x 1.5/2 mL aerosol-tight rotor - 120 V	1/ea



Eppendorf® Microcentrifuge Models 5430/5430 R

EPPENDORF - Unique crossover centrifuges 5430 and 5430 R combine the best features of a microcentrifuge (small footprint) and multipurpose centrifuge (versatility) in one instrument. These centrifuges spin rotors for Eppendorf® tubes and PCR strips as well as rotors for 15/50 mL conical tubes, Vacutainer®, 10 to 50 mL OakRidge tubes, cryo and HPLC vials and accommodate a swing bucket rotor for MTP and PCR plates.

- Exceptional versatility—8 different rotors for tubes from 0.2 mL to 50 mL and microplates
- High centrifugation speed of up to 30,130 x g (17,500 rpm)
- Menu-driven operation with large backlit LCD display
- Saves up to 50 programs with names, 5 program keys
- Automatic rotor recognition with speed limitation
- Innovative > FastTemp Pro® allows for automated pre-cooling based on pre-programmable time and date.
- ECO shut-off reduces energy consumption
- Built-in condensation drain to help eliminate water accumulation
- Available as a rotary knob or keypad version
- 2-year warranty

Specifications:

Capacity 30 x 2 mL, 6 x 50 mL, 2x MTP
 Maximum speed 17,500 rpm
 Maximum RCF 30,130 x g
 Temperature range -11°C to 40°C (5430 R only)
 Power requirement 120 V
 Dimensions (W x D x H) 13 x 16 x 9.8 in. (5430),
 15 x 25.2 x 11.7 in. (5430 R)

Cat. No.	Mfr. No.	Description	Qty.
5430 with rotor			
22620509	022620509	Keypad with 30 x 1.5/2 mL AT rotor	1/ea
226-20568	022620568	Keypad, with 2x MTP plate rotor	1/ea
22620511	022620511	Rotary knobs with 30 x 1.5/2 mL AT rotor	1/ea
22620572	022620572	Rotary knobs with 2x MTP plate rotor	1/ea
5430 R with rotor			
22620601	022620601	Keypad with 30 x 1.5/2 mL AT rotor	1/ea
22620645	022620645	Keypad with 2x MTP plate rotor	1/ea
22620623	022620623	Rotary knobs with 30 x 1.5/2 mL AT rotor	1/ea
22620656	022620656	Rotary knobs with 2x MTP plate rotor	1/ea
5430 without rotor			
226-20584	022620584	Keypad	1/ea
22620596	022620596	Rotary knobs	1/ea

Centrifuges and Accessories

Centrifuges/Microcentrifuges



Eppendorf® MiniSpin® and MiniSpin Plus™ Personal Microcentrifuges

EPPENDORF - Powerful and easy-to-use, these personal microcentrifuges are small enough so that each workstation can be equipped with a centrifuge for a wide range of molecular biology separations and quick spins. Two models are available to meet your performance requirements.

- Extremely compact with exceptionally small footprint
- Deceleration and acceleration of <13 s
- Clear, easy-to-use digital display of time and speed
- Remarkably quiet operation
- Metal rotor housing
- Conform to IEC 1010-2-020 safety regulations
- Separate Short Spin button for fast, convenient quick spins
- Excellent air-flow minimizes heating—protects temperature-sensitive samples
- Lid automatically opens at the end of the run to reduce handling time
- Maintenance-free drive
- Rotor is autoclavable at 121°C, 20 minutes
- Chemical-resistant inner centrifuge lid
- 2-year warranty

Specifications:

Capacity 12 x 1.5/2 mL
Maximum speed 13,400/14,500 rpm (MiniSpin Plus™)
Maximum RCF 12,100 x g (C3514-32), 14,100 x g (C3514-33)
Dimensions (W x D x H) 8.9 x 9.4 x 4.7 in.

Cat. No.	Mfr. No.	Description	Qty.
C3514-32	022620100	MiniSpin® with 12-place rotor - 120 V, 60 Hz	1/ea
C3514-33	022620207	MiniSpin Plus™ with 12-place rotor - 120 V, 60 Hz	1/ea

Eppendorf Vacufuge® Plus Vacuum Concentrator

EPPENDORF - Designed to quickly and efficiently concentrate DNA/RNA, nucleotides, proteins and other samples, this system offers a choice of three operation modes (aqueous, alcohol or high vapor pressure) to correspond with sample solvent. Automatic vacuum aeration helps prevent condensation buildup, maximize evaporation efficiency and prolong pump life. Choose from four heating levels for efficient concentration of a variety of samples: 30°C, 45°C, 60°C and ambient. The unit is narrow to save bench space. Its motorless drive and sealed chamber require little maintenance. Operation is very quiet, even with the pump on. It is available as a complete system with built-in diaphragm pump.



Cat. No.	Mfr. No.	Description	Qty.
C3514-3	022820109	Complete system with built-in diaphragm pump, includes 48 x 1.5/2 mL fixed-angle rotor - 120 V, 60 Hz	1/ea
Rotors			
C3514-1	022822080	72 x 0.5 mL Eppendorf tubes	1/ea
C3514-5	022822004	48 x 1.5/2 mL Eppendorf tubes	1/ea
C3514-8	022822101	Stacking spacer for 0.5 and 1.5/2 mL tube rotors	1/ea
C3514-424	022822241	2x MTP/PCR plates	1/ea
C3514-10	022822144	24 x 5/7 mL tubes (12 x 67–100 mm)	1/ea
C3514-38	022822233	8 x 15 mL tubes (18 x 105–120 mm)	1/ea
C3514-37	022822179	8 x 16 mL tubes (18 x 105–128 mm)	1/ea
C3514-9	022822128	36 x 2/4 mL tubes (15 x 45–48 mm)	1/ea
C3514-36	022822136	16 x 10 mL tubes (20 x 42–45 mm)	1/ea
C3514-35	022822217	12 x 20 mL tubes (31 x 55 mm)	1/ea

30 x 15 mL Fixed-Angle Rotor (F-35-30-17) for Eppendorf® Centrifuges 5702/5702 R/5702 RH

EPPENDORF - Rotor for high-capacity cell culture and clinical applications (e.g., ultrafiltration columns). Spins 30 x 15 mL glass/Vacutainer or 20 x 15 mL conical tubes. Maximum speed: 4,400 rpm. Maximum RCF: 2,750 x g. Also accommodates twenty 16 x 125 mm tubes. Rotor, buckets, lids and adapters are autoclavable (121°C, 20 minutes).



C3514-73 rotor

Cat. No.	Mfr. No.	Description	Qty.
Fixed-angle rotors F-35-30-17			
C3514-73	022639404	Rotor with 30 x 15 mL sleeves, includes 20 inserts for 15 mL conical tubes and 30 rubber mats for glass tubes	1/ea
C3514-72	022639421	Rotor with 10 x 15 mL sleeves, includes 10 inserts for 15 mL conical tubes and 10 rubber mats for glass tubes	1/ea

Centrifuges and Accessories

Centrifuges/Microcentrifuges

4 x 100 mL Swing-Bucket Rotor (A-4-38) for Eppendorf® Centrifuges 5702/5702 R/5702 RH

EPPENDORF - Rotor can be operated with either 100 mL round buckets for tubes 1.5 mL to 85/100 mL or rectangular buckets for glass tubes from 5 to 25 mL. Maximum speed: 4,400 rpm. Maximum RCF: 3,000 x g. Round buckets can be used with aerosol-tight caps for safe centrifugation of hazardous samples. Rotor, buckets, lids and adapters are autoclavable (20 minutes, 121°C).



C3514-70

Cat. No.	Mfr. No.	Description	Qty.
Swing-bucket rotor A-4-38			
C3514-70	022639048	Rotor A-4-38 with 4 x 100 mL round buckets	1/ea
C3514-71	022639064	Rotor A-4-38 without buckets	1/ea
C3512-97	022639081	Bucket - 100 mL round	4/pk
C3512-96	022639307	Bucket - 90 mL rectangular	4/pk
C3512-94	022639293	Aerosol-tight lid for 100 mL round buckets	2/pk

Adapters for A-4-38 round buckets

C3512-133	022639102	5 x 2 to 7 mL tubes (12.5 mm diameter)	2/pk
C3512-131	022639242	4 x 2.6 to 7 mL tubes (13 mm diameter)	2/pk
C3512-128	022639269	4 x 4 to 10 mL tubes (16 mm diameter)	2/pk
C3512-129	022639129	4 x 9 to 15 mL tubes (17.5 mm diameter)	2/pk
C3512-126	022639200	2 x 15 mL conical tube, (not compatible with lid C3512-94)	2/pk
C3512-121	022639188	1 x 15 mL conical tubes	2/pk
C3512-123	022639226	1 x 50 mL conical tubes	2/pk
Adapters for A-4-38 rectangular buckets			
C3512-125	022639323	10 x 5 to 7 mL tubes (13 mm diameter)	2/pk
C3512-135	022639340	8 x 9 mL tubes (14.5 mm diameter)	2/pk
C3512-134	022639366	6 x 15 mL tubes (17.5 mm diameter)	2/pk
C3512-130	022639382	4 x 20 mL tubes (22 mm diameter)	2/pk
C3512-127	022639391	2 x 25 mL tubes (25 mm diameter)	2/pk

30 x 1.5/2 mL Fixed-Angle Rotors (FA-45-30-11 and F-45-30-11) for Eppendorf® Centrifuges 5804/5804 R and 5810/5810 R

EPPENDORF - Microcentrifuge tube rotors are available with basic or aerosol-tight lid for safe centrifugation of hazardous samples. Maximum speed: 14,000 rpm. Maximum RCF: 20,800 x g. Rotor, lids and adapters are autoclavable (20 minutes, 121°C).



226-37100

Cat. No.	Mfr. No.	Description	Qty.
226-37100	022637100	Rotor 30 x 1.5/2 mL with aerosol-tight lid	1/ea
226-37002	022637002	Rotor 30 x 1.5/2 mL with basic lid	1/ea

6 x 100 mL Fixed-Angle Rotor (F-34-6-38) for Eppendorf® Centrifuges 5804/5804 R and 5810/5810 R

EPPENDORF - High-speed rotor for molecular applications in tubes from 0.2 mL to 100 mL (38 mm diameter). Low-weight design (7 lbs./3.2 kg) for easy lifting and ergonomic carrying. The low rotor profile with domed rotor lid provides unmatched tube accessibility and trouble-free tube removal. Maximum speed: 12,000 rpm (11,000 rpm in 5804/5804R/5810). Maximum RCF: 18,500 x g (15,500 rpm in 5804/5804R/5810). Rotor, lids and adapters are autoclavable (20 minutes, 121°C).



Cat. No.	Mfr. No.	Description	Qty.
226-37207	022637207	Rotor 6 x 100 mL with lid	1/ea
Adapters			
226-37215	022637215	4 x 1.5/2 mL tubes	2/pk
226-3727-4	022637274	1 x 15 mL conical tubes	2/pk
226-37266	022637266	1 x 50 mL conical tubes	2/pk

4 x 100 mL Swing-Bucket Rotor (A-4-44) for Eppendorf® Centrifuges 5804/5804 R and Centrifuges 5810/5810 R

EPPENDORF - Rotor accommodates tubes from 0.2 mL to 100 mL. Maximum speed: 5,000 rpm. Maximum RCF: 4,500 x g. Aerosol-tight caps for safe centrifugation of hazardous samples optionally available. Rotor, buckets, lids and adapters are autoclavable (20 minutes, 121°C).



226-37401

Cat. No.	Mfr. No.	Description	Qty.
226-37401	022637401	Rotor A-4-44 with 4 x 100 mL rectangular buckets	1/ea
226-37428	022637428	Aerosol-tight lids* for 100 mL rectangular buckets	2/pk
Adapters			
226-37509	022637509	14 x 1.2 to 5 mL tubes (11 mm O.D.)	2/pk
226-37541	022637541	9 x 1.8 to 7 mL tubes (13 mm diameter)	2/pk
226-37568	022637568	7 x 4 to 10 mL tubes (16 mm diameter)	2/pk
226-37584	022637584	6 x 7 to 17 mL tubes (17.5 mm diameter)	2/pk
226-37606	022637606	4 x 15 mL conical tubes	2/pk
C3514-55	022637673	1 x 50 mL conical tubes	2/pk

*Aerosol-tightness tested and certified by the Centre of Emergency Preparedness and Response, Health Protection Agency, Porton Down, Great Britain.

Centrifuges and Accessories

Centrifuges/Microcentrifuges

4 x 250 mL Swing-Bucket Rotor (A-4-62) for Eppendorf® Centrifuges 5810/5810 R

EPPENDORF - Economic swing-bucket rotor A-4-62 accommodates tubes and flasks from 0.2 mL to 250 mL as well as plates up to 53 mm height. Maximum speed: 4,000 rpm. Maximum RCF: 3,250 x g. Aerosol-tight caps for safe centrifugation of hazardous samples optionally available. Rotor, buckets, lids and adapters are autoclavable (20 minutes, 121°C).



226-38009

Cat. No.	Mfr. No.	Description	Qty.
226-38009	022638009	Rotor A-4-62 with 4 x 250 mL rectangular buckets	1/ea
226-38068	022638068	Bucket, 3x MTP/1x DWP	4/pk
226-38033	022638033	Aerosol-tight lids* for 250 mL rectangular buckets	2/pk

Adapters

226-38203	022638203	25 x 1.2 to 5 mL tubes (11 mm O.D.)	2/pk
226-38246	022638246	15 x 1.8 to 7 mL tubes (13 mm diameter)	2/pk
226-38262	022638262	12 x 4 to 10 mL tubes (16 mm diameter)	2/pk
226-38301	022638301	12 x 7 to 17 mL tubes (17.5 mm diameter)	2/pk
226-38289	022638289	9 x 15 mL conical tubes	2/pk
226-38351	022638351	4 x 50 mL conical tubes**	2/pk
226-38343	022638343	3 x 50 mL conical tubes	2/pk

* Aerosol-tightness tested and certified by the Centre of Emergency Preparedness and Response, Health Protection Agency, Porton Down, Great Britain.

**Adapter cannot be used with aerosol-tight cap

4 x 500 mL Swing-Bucket Rotor (A-4-81) for Eppendorf® Centrifuges 5810/5810 R

EPPENDORF - High-capacity rotor that can handle up to 28 x 50 mL conical or 48 x 15 mL conical tubes as well as up to 72 x 5/7 mL or 64 x 10 mL blood collection tubes. Rotor A-4-81 accommodates buckets for plates up to 60 mm height. Possibility for mixed loading with 2 plate buckets and 2 rectangular tube buckets allows for increased versatility. Maximum speed: 4,000 rpm. Maximum RCF: 3,250 x g. Aerosol-tight caps for safe centrifugation of hazardous samples optionally available. Buckets, lids and adapters are autoclavable (20 minutes, 121°C).



C3514-444

Cat. No.	Mfr. No.	Description	Qty.
C3514-444	022638602	Rotor A-4-81 with 4 x 500 mL rectangular buckets	1/ea
C3515-476	022638866	Bucket, 4x MTP/1x DWP	2/pk
C3514-422	022638661	Aerosol-tight lids* for 500 mL rectangular buckets	2/pk

*Aerosol-tightness tested and certified by the Centre of Emergency Preparedness and Response, Health Protection Agency, Porton Down, Great Britain.

Rotor FA-45-18-11 Kit for use in Eppendorf® Microcentrifuge 5424 / 5424 R

EPPENDORF - Innovative 18-place rotor for mini-prep spin columns and 1.5/2 mL tubes. Designed with an extra-high rim to support open tube lids during centrifugation—no more torn-off lids. Maximum speed: 15,000 rpm. Maximum RCF: 18,111 x g.



Cat. No.	Mfr. No.	Description	Qty.
P5063-156	022653083	Rotor FA-45-18-11-kit, includes rotor lid	1/ea



226-54403



226-54306

Rotors for use in Eppendorf® Microcentrifuges 5430 and 5430 R

EPPENDORF

Cat. No.	Mfr. No.	Description	Qty.
226-54047	022654047	30 x 1.5/2 mL aerosol-tight	1/ea
226-54004	022654004	30 x 1.5/2 mL	1/ea
226-54080	022654080	24 x 1.5/2 mL aerosol-tight high-speed rotor	1/ea
226-54128	022654128	24 x MiniPrep kit (or 1.5/2 mL tubes)	1/ea
226-54403	022654403	2 x MTP plate rotor (plates up to 29 mm height)	1/ea
226-54306	022654306	6 x 15/50 mL conical rotor including adapter	1/ea
226-54161	022654161	18 x cryo tube rotor, including adapter	1/ea



Eppendorf® PCR Plate Adapter for Plate Buckets

EPPENDORF - Safe centrifugation of PCR plates (skirted, unskirted and semi-skirted). For use in all MTP and DWP rotors. Optimized bores for most commonly available PCR plates.

Cat. No.	Mfr. No.	Description	Qty.
226-38947	022638947	96-well PCR plate	2/pk

Centrifuges and Accessories

Centrifuges/Microcentrifuges

StatSpin CytoFuge 2

HEMOCUE - The StatSpin CytoFuge 2 is the perfect solution for your cyto-centrifuge needs. It's simple, understandable controls and new snap-seal filter concentrators make operation easier than ever before. Samples are processed quickly, silently and conveniently on any bench or in a safety cabinet. Results are consistent: easy to scan monolayer cell presentations of excellent morphologic detail.

Specifications:

Maximum speed 4,400 rpm
 Maximum RCF 1,060 x g
 Cycle times 2, 4, 6, 8,
 10 and 30 min.
 Dimensions (H x W x D)..... 5.3 x 6.6 x 8.6 in.
 Power requirements 100–240 V, 50/60 Hz



StatSpin® Express 2 Centrifuge

HEMOCUE - The StatSpin Express 2 primary tube centrifuge prepares high-quality plasma or serum for chemistry, coag and cardiac markers in only 2 minutes.

This amazingly compact and quiet centrifuge spins standard 5 mL blood collection tubes in only two minutes, yet it produces quality serum or plasma equal to 10-15 minute runs in larger, more costly equipment. Best of all, the Express 2 is small and quiet enough to be used where it's needed most – right at the workstation. The StatSpin Express 2 accepts standard glass or plastic up to 5 mL blood collection tubes (13 x 75 mm or smaller) and the unique rotor design minimizes the chance of breakage.



Specifications:

Speed/force 8,500 rpm/4,440 x g
 Cycle times 30, 120 and 180 sec.
 Maximum tube size 13 x 75 mm (5 mL)
 Dimensions (H x W x D)..... 6 x 6.6 x 8.6 in.
 Power requirements 100–240 V, 50/60 Hz

Cat. No.	Mfr. No.	Description	Qty.
B8900-1	CF02	CytoFuge® 2 centrifuge system	1/ea
Replacement parts/accessories			
B8900-14	CFRT-2	Rotor	1/ea
B8900-13	CFRC	Cover for rotor B8900-14	1/ea
B8900-8	FFR1	Filter concentrator, reusable	200/bx
B8900-10	FFCL	Clip for filter concentrator	4/pk
B8900-9	CLIP	Clip for cell concentrator	10/pk
Disposable cell concentrators with gasket			
B8900-3	CC01	1-well - disposable	10/bx
B8900-4	CC03	3-well - disposable	10/bx

Cat. No.	Mfr. No.	Description	Qty.
B8900-61	SSX2	Centrifuge	1/ea
Replacement parts			
B8900-67	RTX4	4-place rotor	1/ea
B8900-62	DL01	Disposable chamber liner	10/bx
B8900-64	SV02	Insert for 3 mL tube (10.25 x 64 mm tube)	4/bx
B8900-63	SV01	Insert for 5 mL tube (13 x 75 mm tube)	4/bx

StatSpin® Express 3 Centrifuge

HEMOCUE - The StatSpin Express 3 primary tube centrifuge can spin 8 tubes up to 10 mL. The centrifuge provides high-quality plasma or serum in 2 minutes. With only 3 settings, it is simple to use. Just select the 2, 3 or 5-minute button and press start. No fumbling with the settings or the need to readjust the speed. The unit beeps when it is done spinning. For safety, the lid remains locked until the rotor comes to a complete stop. Samples can be processed as they arrive in the lab. Now you can process as many as 8 samples at once for high throughput. The StatSpin Express 3 holds tubes from 1.5–10 mL in size.

Features include a small, round footprint that takes up little bench space and fits well in small corners. Cover interlock system, chamber gasket and proven mechanical containment for operator safety. Certified by a Nationally Recognized Testing Laboratory (NRTL) for the US and Canada. 10% bleach-compatible surfaces and polypropylene rotor make cleaning easy. Disposable bowl liners available for added efficiency.

Specifications:

Speed/force 7,200 rpm/4,440 x g at 2 and 3 min., 5,600 rpm/2,685 x g at 5 min.
 Tube size Accepts blood tubes 1.5 to 10 mL
 Dimensions (H x W x D)..... 7 x 11 x 10 in.
 Power requirements 100–240 V, 50/60 Hz, 3 amps



Cat. No.	Mfr. No.	Description	Qty.
B8900-85	SSX3	Centrifuge	1/ea
U2251-24	SV10	Insert - 13 x 75 mm	1/pk
U2251-25	SV11	Insert - 13 x 100 mm	1/pk

Centrifuges and Accessories

Centrifuges/Microcentrifuges

StatSpin® Express 4 High-Speed Horizontal Centrifuge

HEMOCUE - Prepare serum or plasma gel tubes in minutes with this high-speed horizontal centrifuge. With only 3 settings, it is simple to use. Just select the 3, 5 or 10 minute button and press start. No fumbling with settings or the need to readjust the speed. For safety, the lid remains locked until the rotor comes to a complete stop. An audible alarm sounds when the cycle is completed. Now you can process as many as 8 samples at once for high throughput. The StatSpin Express 4 is powerful. The rugged brushless motor is maintenance free.

In just 3 minutes, the Express 4 can produce serum or plasma equal to tubes spun for 10 or more minutes in a conventional horizontal centrifuge. It is ideal for rapid separation of gel tubes with flat gel barriers to ensure no cell interference. Versatile adapters for 7 mL and 10 mL tubes come with the unit. It can accommodate tubes from 1.5 mL to 10 mL. Shield interlock and steel bowl provide mechanical containment for operator safety. Certified by a Nationally Recognized Testing Laboratory (NRTL) for the US and Canada. Diagnostic error codes indicate imbalance and reduces chance of operator error.

Specifications:

Cycle times 5,100 rpm/4,000 x g at 3 and 5 min., 4,500 rpm/3,100 x g at 10 min.
Tube size Accepts blood tubes 1.5 to 10 mL
Dimensions (H x W x D) 8 x 13 x 16 in.
Power requirements 100–240 V, 50/60 Hz, 2.5 amps



Cat. No.	Mfr. No.	Description	Qty.
B8900-88	SSH4	Centrifuge	1/ea
U2251-24	SV10	Insert- 13 x 75 mm	1/pk
U2251-25	SV11	Insert - 13 x 100 mm	1/pk

Accessories for StatSpin® Express 3 and Express 4 Centrifuges

HEMOCUE

Cat. No.	Mfr. No.	Description	Qty.
Accessories for Express 3 only			
U2251-22	DL02	Disposable replacement chamber liner	3/pk
U2251-23	RTX8	8-place rotor	1/ea
Accessories for Express 3 and 4			
U2251-17	SV05	Insert for BD™ 2 mL tubes	4/pk
U2251-18	SV06	Insert for 7 mL tubes (16 x 75 mm)	8/pk
U2251-19	SV07	Insert for 10 mL tubes (16 x 100 mm)	8/pk
U2251-20	SV08	Insert for 5 mL tubes (13 x 75 mm)	8/pk
U2251-21	SV09	Insert for 7 mL tubes (13 x 100 mm)	8/pk
RTH8	RTH8	8 x 10 mL horizontal rotor-use with Express 4 only	1/ea

Centrifuges and Accessories

Centrifuges/Microcentrifuges

StatSpin® MP Multipurpose Centrifuge

HEMOCUE - The StatSpin® MP is an ideal, general-purpose centrifuge for the stat, clinic or office laboratory. Sample preparation is fast with quality serum or plasma in 30 to 120 seconds.

Small sample requirements make the StatSpin® MP centrifuge ideal for finger stick procedures. This reduces labor and expense involved in venous blood collection. Rotors can easily be changed with a simple push-on or pull-off motion, transforming the centrifuge from hematocrit to urine sediment and blood. The interlocking lid prevents access while in cycle and it is designed to meet international safety standards. Power adapter included. Certified by a Nationally Recognized Testing Laboratory (NRTL) for the US and Canada.

Specifications:

Speed 15,800 rpm
RCF 12,000 x g

Cycle duration

Tube Rotors 30 seconds
Urine 45 seconds
LipoClear 95 seconds
Hematocrit 120 seconds
Dimensions (H x W x D) 6 x 6.6 x 8.6 in.
Power requirements 24 V DC, 1.7 A



Cat. No.	Mfr. No.	Description	Qty.
B8900-19	SSMP	StatSpin® MP centrifuge	1/ea
B71954	B71954	StatSpin® MP with CSD2 digital reader	1/ea
Rotors and Accessories			
RT12-KIT	RT12-KIT	2 x 1.5 mL fixed angle rotor, 1-O-ring, 2-adapters, 1-shield	1/ea
B8900-28	RH12	Microhematocrit rotor with reader	1/ea
B8900-29	RH12-1	Microhematocrit rotor without reader	1/ea
B8900-86	PBCP	Pipette bulb	100/bg
Consumables - Microhematocrits			
B8900-18A	CSD2	Digital hematocrit reader with power supply	1/ea
B8900-32	HR05	Hematocrit reader, card style	1/ea
HR4C	HR4C	Hematocrit reader, circular style	1/ea
B8900-36	TU15-10	Precalibrated urine tube, 1.5 mL flip-cap	500/cs
B8900-21	HT9H-10	Glass capillary tube (40 mm, Ammonium Heparin)	1,000/cs
B8900-22	HT9U-10	Glass capillary tube (40 mm, untreated)	1,000/cs
B8900-23	HP8H-10	SafeCrit® capillary tube (40 mm, Sodium Heparin),	1,000/cs
B8900-24	HP8U-10	SafeCrit capillary tube (40 mm, untreated)	1,000/cs
B8900-25	HP4H-10	SafeCrit® capillary tube (75 mm, Sodium Heparin)	1,000/cs
B8900-26	HP4U-10	SafeCrit capillary tube (75 mm, untreated)	1,000/cs
LipoClear® Reagent Tubes (for clearing lipemic samples)			
B8900-45	LC10	LipoClear® pre-filled reagent tubes for clearing 0.5 mL of serum or plasma	10/bg
B8900-46	LC40	LipoClear® pre-filled reagent tubes for clearing 0.5 mL of serum or plasma	40/bg
B8900-47	LC15	LipoClear® pre-filled reagent tubes for clearing 1.5 mL of serum or plasma	40/bg
B8900-76	LCP1	LipoClear® Plus reagent for clearing serum or plasma, 30 mL bottle	1/ea

Centrifuges and Accessories

Centrifuges/Microcentrifuges

Hettich EBA 200/200S Tabletop Centrifuge

HETTICH - The EBA 200/200 S is a small centrifuge with a built-in, 8-place angle rotor for blood, urine and pediatric tubes up to 15 mL. The high-performance, EBA 200S provides rapid separation for a quick turnaround of STAT chemistry, coag. and pediatric samples. The EBA 200S achieves 8,000 rpm in a fixed-angle rotor and obtains consistent platelet counts in just minutes.



Specifications:

Maximum capacity.....	8 x 15 mL
Maximum speed.....	8,000 rpm
Maximum RCF	6,153 x g
Dimensions (H x W x D).....	9 x 10 x 14 in.
Power requirements	115 V, 50/60 Hz
Warranty	5 years

Cat. No.	Mfr. No.	Description	Qty.
EBA 200 centrifuge packages			
200BLOOD8	200BLOOD8	Angle, (8) 13's, 16's	1/kt
200BLD8PED	200BLOOD8-PED	Angle, (8) 0.5 mL pediatric	1/kt
200URISIS4	200URINALYSIS4	Angle, (12) 13's, 16's	1/kt
EBA 200S centrifuge packages			
200SBLOOD8	200SBLOOD8	Angle, (8) 13's, 16's	1/kt
200SBD8PED	200SBLOOD8-PED	Angle, (8) 0.5 mL pediatric	1/kt

Hettich EBA 270 Tabletop Centrifuge

HETTICH - The EBA 270 is an affordable, all-in-one tabletop centrifuge providing convenience and reliability for routine applications. The built-in, swing-out rotor delivers 90° separation for blood and urine tubes up to 15 mL. The EBA 270 is ideal for use with standard SST (Serum Separator Tube) gel tubes.



Specifications:

Maximum capacity.....	6 x 15 mL
Maximum speed.....	4,000 rpm
Maximum RCF	2,254 x g
Dimensions (H x W x D).....	9 x 13 x 15 in.
Power requirements	115 V, 50/60 Hz
Warranty	5 years

Cat. No.	Mfr. No.	Description	Qty.
270COMPLETE	270COMPLETE	Horiz. rotor, (6) blood/urine/pediatric adapters	1/kt

Hettich EBA 280/280 S Tabletop Centrifuge

HETTICH - The EBA 280/280 S is a small centrifuge with a 90° horizontal rotor for flat separation in all standard blood tubes. The high-speed EBA 280 S version, provides rapid separation for a quick turnaround of your STAT chemistry, coag. and pediatric samples in a swing-out rotor at up to 6,000 rpm. A variety of rotors are available for serology, cell washing, urine and cell culture.



Specifications:

Maximum capacity.....	6 x 50 mL
Maximum speed	6,000 rpm
Maximum RCF	5,071 x g
Dimensions (H x W x D).....	9.5 x 13 x 15.75 in.
Power requirements	115 V, 50/60 Hz
Warranty	5 years

Cat. No.	Mfr. No.	Description	Qty.
EBA 280 centrifuge packages			
280BLOOD6	280BLOOD6	Horiz., (6) 13's, 16's	1/kt
280BLOOD8	280BLOOD8	Horiz., (8) 13's, 16's	1/kt
280BLOOD12	280BLOOD12	Angle, (12) 13's, 16's	1/kt
280BLD6PED	280BLOOD6-PED	Horiz., (6) 0.5 mL	1/kt
280SERLG-D	280SEROLOGY-D	Angle, (12) 5-7 mL, decanting	1/kt
280SEROLOGY	280SEROLOGY	Angle, (12) 12/13 x 75 mm	1/kt
280URLSIS6	280URINALYSIS6	Horiz., (6) 12 mL (KOVA)	1/kt
EBA 280 S centrifuge packages			
280SBLOOD6	280SBLOOD6	Horiz., (6) 13's, 16's	1/kt
280SBL-PED	280SBLOOD6-PED	Horiz., (6) 0.5 mL	1/kt

Hettich HAEMATOKRIT 200 Benchtop Centrifuge

HETTICH – Spin 24 capillaries for hematology or 20 capillaries for buffy coat analysis in a compact frame with all-metal containment. Rotor lid doubles as an evaluation disc allowing you to determine hematocrit values without having to remove the capillaries and risk disturbing the sedimentation. Achieve maximum packing density of cells within seven minutes. Ideal for hematology, sports medicine, and neonatology. Complete application packages available.



Specifications:

Maximum capacity.....	24 capillaries
Maximum speed	13,000 rpm
Maximum RCF	16,060 x g
Dimensions (H x W x D).....	9 x 10 x 14 in.
Warranty	5 years

Cat. No.	Mfr. No.	Description	Qty.
200HEMA20	200HEMA20	HAEMATOKRIT 200, (20) capillaries, disc, buffy	1/kt
200HEMA24	200HEMA24	HAEMATOKRIT 200, (24) capillaries	1/kt

Centrifuges and Accessories

Centrifuges/Microcentrifuges

Hettich MIKRO™ 185 Micro Centrifuge

HETTICH - The MIKRO™ 185 offers application versatility by enabling users to run up to 24 microliter tubes, 12 pediatric tubes, or 18 spin column kits in a single, ultra-compact frame. High-performance at 17,008 x g with all-metal containment for added safety. Packages include the centrifuge, rotor, buckets, adapters and lids.

Specifications:

Maximum capacity.....	24 x 1.5/2 mL	Dimensions (H x W x D).....	9 x 10 x 14 in.
Maximum speed.....	13,300 rpm	Power requirements	115 V
Maximum RCF	17,008 g	Warranty	5 years



Cat. No.	Mfr. No.	Description	Qty.
MIKRO™ 185 centrifuge packages			
185MICRO	185MICR012	Angle, (12) 1.5-2 mL	1/kt
185MICR-BC	185MICROSC-BC	Angle, (18) 1.5-2 mL, SpinColumn, bio-lid	1/kt
185MICROSC	185MICROSC	Angle, (24) 0.5, 0.8 mL	1/kt
185MICRO12	185MICR012-PED	Angle, (24) 0.5, 0.8 mL	1/kt
185MICRO24	185MICR024	Angle, (24) 1.5-2 mL, bio-lid	1/kt

Hettich MIKRO™ 200/200R Benchtop Centrifuges

HETTICH - The MIKRO™ 200 and MIKRO™ 200 R microliter centrifuges perform research centrifugation tasks such as PCR, DNA and RNA easily and effectively. The Fast Cool function refrigerates quickly down to +4°C in 10 to 15 minutes making the MIKRO™ 200R microcentrifuge ideal for the fast-paced laboratory. Highly reliable refrigeration helps ensure that even temperature-sensitive samples are centrifuged correctly.

Specifications:

Maximum capacity	30 x 1.5/2 mL
Maximum speed	15,000 rpm
Maximum RCF	21,382 x g
Power requirements	115 V, 50/60 Hz

C862124000 (MIKRO™ 200)

Dimensions (H x W x D)..... 10 x 11 x 13.5 in.



C862124000

C862124050 (MIKRO™ 200R)

Temperature control -10°C to +40°C (MIKRO 200R)

Dimensions (H x W x D)..... 10 x 11 x 22 in.

Warranty



C862124050

Cat. No.	Mfr. No.	Description	Qty.
C862124000	2400-01	MIKRO™ 200 model - 115 V (see package listings below)	1/kt
C862124050	2405-01	MIKRO™ 200R refrigerated model - 115 V (see package listings below)	1/kt
MIKRO™ 200 centrifuge packages			
200CRYO	200CRYO	Angle, (20) cryo tubes, 1.8 mL	1/kt
200CRYO-BC	200CRYO-BC	Angle, (20) cryo tubes, 1.8 mL, bio-lid	1/kt
200MIC24BC	200MICRO24-BC	Angle, (24) microliter tubes, 1.5-2 mL, bio-lid	1/kt
200MIC30BC	200MICRO30-BC	Angle, (30) microliter tubes, 1.5-2 mL, bio-lid	1/kt
200MICKSTRP	200MICROSTRIP	Angle, 4 x 8 PCR strips	1/kt
200MICROSC	200MICROSC-BC	Angle, (24) SpinColumn, bio-lid	1/kt
MIKRO™ 200R centrifuge packages			
200RCRYO	200RCRYO	Angle, (20) cryo tubes, 1.8 mL	1/kt
200RCRYOBC	200RCRYO-BC	Angle, (20) cryo tubes, 1.8 mL, bio-lid	1/kt
200RMIC24BC	200RMICRO24-BC	Angle, (24) microliter tubes, 1.5-2 mL, bio-lid	1/kt
200RMIC30BC	200RMICRO30-BC	Angle, microliter tubes, (30) 1.5-2 mL, bio-lid	1/kt
200RMICKSTRP	200RMICROSTRIP	Angle, 4 x 8 PCR strips	1/kt
200RMICROSC	200RMICROSC-BC	Angle, (24) SpinColumn, bio-lid	1/kt

Centrifuges and Accessories

Centrifuges/Microcentrifuges



C862122000



C862122051

Hettich MIKRO™ 220/220R Benchtop Centrifuges

HETTICH - The MIKRO™ 220 and MIKRO™ 220R are advanced microcentrifuges with Quiet Operation. High-throughput with a maximum capacity of 48 microliter tubes and a maximum RCF of 31,514 x g. The MIKRO™ 220/220R are ideal for microliter tubes required for PCR, DNA and RNA applications. The units will also accommodate blood tubes, conical tubes and round-bottom centrifuge tubes up to 50 mL.

Specifications:

Drum rotor capacity.....	60 x 1.5–2 mL
Maximum speed.....	18,000 rpm
Maximum RCF	31,514 x g
Warranty	5 years

C862122000 (MIKRO™ 220)

Fixed angle capacity	48 x 0.2–2 mL and 6 x 50 mL
Dimensions (H x W x D).....	12 x 13 x 16.5 in.

C862122051 (MIKRO™ 220R)

Fixed angle capacity	48 x 0.2–2 mL and 6 x 50 mL
Temperature control	-20°C to +40°C
Dimensions (H x W x D).....	12 x 13 x 25.5 in.

Cat. No.	Mfr. No.	Description	Qty.
C862122000	2200-01	MIKRO™ 220 model - 115 V (see package listings below)	1/kt
C862122051	2205-01	MIKRO™ 220R refrigerated model - 115 V (see package listings below)	1/kt
MIKRO™ 220 centrifuge packages			
220CRYO	220CRYO	Angle, (20) cryo tubes, 1.8 mL	1/kt
220CRYO-BC	220CRYO-BC	Angle, (20) cryo tubes, 1.8 mL, bio-lid	1/kt
220MICRO24	220MICRO24	Angle, (24) microliter tubes, 1.5-2 mL, bio-lid	1/kt
220MICRO30	220MICRO30	Angle, (30) microliter tubes, 1.5-2 mL, bio-lid	1/kt
220MICRO48	220MICRO48	Angle, (48) microliter tubes, 1.5-2 mL, bio-lid	1/kt
220MICRO90	220MICRO90	Horiz, (24) microliter tubes, 1.5-2 mL, bio-lid	1/kt
220MCRSTRP	220MCRSTRIP	Angle, (6) PCR strips, 8 x 0.2 mL	1/kt
MIKRO™ 220R centrifuge packages			
220RCRYO	220RCRYO	Angle, (20) cryo tubes, 1.8 mL	1/kt
220RCRYOBC	220RCRYO-BC	Angle, (20) cryo tubes, 1.8 mL, bio-lid	1/kt
220RMICR24	220RMICR24	Angle, (24) microliter tubes, 1.5-2 mL, bio-lid	1/kt
220RMICR30	220RMICR30	Angle, (30) microliter tubes, 1.5-2 mL, bio-lid	1/kt
220RMICR48	220RMICR48	Angle, (48) microliter tubes, 1.5-2 mL, bio-lid	1/kt
220RMICR90	220RMICR90	Horiz, (24) microliter tubes, 1.5-2 mL, bio-lid	1/kt
220MCMSTRP	220MCMSTRIP	Angle, (6) PCR strips, 8 x 0.2 mL	1/kt

Centrifuges and Accessories

Centrifuges/Microcentrifuges



C8622-6374



C8622-6375

Hettich ROTANTA 460/460R Benchtop Centrifuges

HETTICH - The ROTANTA 460/460R benchtop centrifuges offer enhanced performance with an extended range of accessories that help guarantee fast, trouble-free operation in daily laboratory use. Features special braking ramp for spinning blood bags. With a maximum capacity of 3 L per run, the Hettich ROTANTA 460/460R tabletop centrifuges are designed for clinics and laboratory centers, as well as in life science R & D laboratories.

In addition to standard tubes, the ROTANTA 460 also accommodates a large variety of specialty applications such as blood bags, cytology, plates, chrome bath and Schlenk tubes. Available in non-refrigerated (460) and refrigerated (460R) versions.

Specifications:

Maximum capacity.....	4 x 750 mL
Maximum speed.....	15,000 rpm
Maximum RCF	24,400 x g
Power requirements	110–115 V, 60 Hz
Warranty	5 years

C8622-6374 (ROTANTA 460)

Dimensions (H x W x D)..... 18 x 22 x 28 in.

C8622-6375 (ROTANTA 460 R)

Temperature control –20°C to +40°C

Dimensions (H x W x D)..... 18 x 30 x 28 in.

Cat. No.	Mfr. No.	Description	Qty.
C8622-6374	5650-01	ROTANTA 460 model (see package listings below)	1/kt
C8622-6375	5660-01	ROTANTA 460R refrigerated model (see package listings below)	1/kt
ROTANTA 460 centrifuge packages			
460BLOD2BC	460BLOOD2-BC	Horiz., (47) 13's, (38) 16's, bio-lids	1/kt
460BLOD4BC	460BLOOD4-BC	Horiz., (84) 13's, (76) 16's, bio-lids	1/kt
460BLOD4	460BLOOD4B-BC	Horiz., (108) 13's, (88) 16's, bio-lids	1/kt
460BLOODHC	460BLOODHC	Horiz., (196) 13's, (148) 16's	1/kt
460BLDHCB	460BLOODHC-BC	Horiz., (196) 13's, (148) 16's, bio-lids	1/kt
460BT250BC	460BOTTLE-250-BC	Horiz., (4) 250/290 mL, bio-lids	1/kt
460BT750BC	460BOTTLE-750-BC	Horiz., (4) 650/750 mL, bio-lids	1/kt
460CLCT2BC	460CELLCULTURE2-BC	Horiz., (28) 15 mL, (14) 50 mL, bio-lids	1/kt
460CLCT4BC	460CELLCULTURE4-BC	Horiz., (56) 15 mL, (28) 50 mL, bio-lids	1/kt
460CLCTEHC	460CELLCULTUREHC	Horiz., (96) 15 mL, (40) 50 mL	1/kt
460PLATE	460PLATE	Horiz., (24) plates	1/kt
460PLATEBC	460PLATE-BC	Horiz., (24) plates, bio-lids	1/kt
460PLTHSBC	460PLATEHS-BC	Horiz., HS, (12) plates, bio-lids	1/kt
ROTANTA 460R centrifuge packages			
460RBLD2BC	460RBLOOD2-BC	Horiz., (47) 13's, (38) 16's, bio-lids	1/kt
460RBLD4BC	460RBLOOD4-BC	Horiz., (84) 13's, (76) 16's, bio-lids	1/kt
460RBLD4B	460RBLOOD4B-BC	Horiz., (108) 13's, (88) 16's, bio-lids	1/kt
460RBLODHC	460RBLOODHC	Horiz., (196) 13's, (148) 16's	1/kt
460RBDHC	460RBLOODHC-BC	Horiz., (196) 13's, (148) 16's, bio-lids	1/kt
460RCCLTHC	460RCCLTHC	Horiz., (96) 15 mL, (40) 50 mL	1/kt
460RPLATE	460RPLATE	Horiz., (24) plates	1/kt
460RPLATBC	460RPLATE-BC	Horiz., (24) plates, bio-lids	1/kt
460RPLHSBC	460RPLATEHS-BC	Horiz., HS, (12) plates, bio-lids	1/kt
460RB250BC	460RBOTTLE-250-BC	Horiz., (4) 250/290 mL, bio-lids	1/kt
460RB750BC	460RBOTTLE-750-BC	Horiz., (4) 650/750 mL, bio-lids	1/kt

Centrifuges and Accessories

Centrifuges/Microcentrifuges

Hettich ROTANTA 460RF Floor Model Centrifuge

HETTICH - Powerful and versatile with robust and steady temperature control system. At a 3 L capacity per run, this floor model centrifuge is capable of virtually any application you choose. Supports a high-speed plate rotor that reaches a RCF of 6,446. Also available as an underbench or benchtop model. Inquire for more information.

Specifications:

Maximum capacity	4 x 750 mL	Dimensions (H x W x D)	38 x 22 x 27 in.
Maximum speed	15,000 rpm	Temperature control	-20°C to +40°C
Maximum RCF	24,400 x g	Warranty	5 years
Power requirements	110–115 V 60 Hz		



Cat. No.	Mfr. No.	Description	Qty.
ROTANTA 460RF centrifuge packages			
460RFB2BC	460RFBLOOD2-BC	Horiz., (42) 13's, (38) 16's, bio-lids	1/kt
460RFB4BC	460RFBLOOD4-BC	Horiz., (84) 13's, (76) 16's, bio-lids	1/kt
460RFBLOC	460RFBLOOD4B-BC	Horiz., (108) 13's, (88) 16's, bio-lids	1/kt
460RFBLDHC	460RFBLOODHC	Horiz., (196) 13's, (148) 16's	1/kt
46RFBDHBC	460RFBLOODHC-BC	Horiz., (196) 13's, (148) 16's, bio-lids	1/kt
460RFBLOO	460RFBLOODBAG4	Horiz., (4) 450 mL bag	1/kt
46DBAG4-BC	460RFBLOODBAG4-BC	Horiz., (4) 450 mL bag, bio-lids	1/kt
4RFBT250BC	460RFBOTTLE-250-BC	Horiz., (4) 250/290 mL, bio-lids	1/kt
4RFBT750BC	460RFBOTTLE-750-BC	Horiz., (4) 650/750 mL, bio-lids	1/kt
46RCELLH	460RCELLCULTUREHC	Horiz., (96) 15 mL, (40) 50 mL	1/kt
460RFPLATE	460RFPLATE	Horiz., (24) plates	1/kt
460RFPLTBC	460RFPLATE-BC	Horiz., (24) plates, bio-lids	1/kt
4RPLTHSBC	460RFPLATEHS-BC	Horiz., HS,(12) plates, bio-lids	1/kt

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Centrifuges and Accessories

Centrifuges/Microcentrifuges



C8621-6347



C8621-6348

Hettich ROTINA™ 380/380R Benchtop Centrifuges

HETTICH - The ROTINA™ 380 and 380R benchtop centrifuges save you space, only 18 in. wide, while spinning a large quantity of centrifuge tubes per run. In addition to all standard applications, the ROTINA™ 380 general-purpose centrifuge can handle a variety of specialty applications such as cytology, cell culture flasks and plates. Available in non-refrigerated 380 and refrigerated 380R versions.

Specifications:

Maximum capacity.....	4 x 290 mL
Maximum speed.....	15,000 rpm
Maximum RCF	24,400 x g
Power requirements	115 V
Warranty	5 years

C8621-6347 (ROTINA™ 380)

Dimensions (H x W x D).....16.5 x 18 x 23.5 in.

C8621-6348 (ROTINA™ 380 R)

Temperature control-20°C to +40°C

Dimensions (H x W x D).....16.5 x 18 x 29.5 in.

Cat. No.	Mfr. No.	Description	Qty.
C8621-6347	1701-01	ROTINA 380 model (see package listings below)	1/kt
C8621-6348	1706-01	ROTINA 380R refrigerated model (see package listings below)	1/kt
ROTINA™ 380 centrifuge packages			
380BLOOD2	380BLOOD2	Horiz., (32) 13's, (26) 16's	1/kt
380BLOD2BC	380BLOOD2-BC	Horiz., (32) 13's, (26) 16's, (4) bio-lids	1/kt
380BLOOD4	380BLOOD4	Horiz., (64) 13's, (52) 16's	1/kt
380BLOD4BC	380BLOOD4-BC	Horiz., (64) 13's, (52) 16's, (4) bio-lids	1/kt
380BOTTLE	380BOTTLE	Horiz., (4) 250/290 mL	1/kt
380BOTILEBC	380BOTTLE-BC	Horiz., (4) 250/290 mL, bio-lids	1/kt
380CLCLTR2	380CELLCULTURE2	Horiz., (18) 15 mL, (8) 50 mL	1/kt
380CLCR2BC	380CELLCULTURE2-BC	Horiz., (18) 15 mL, (8) 50 mL, bio-lids	1/kt
380CLCLTR4	380CELLCULTURE4	Horiz., (36) 15 mL, (16) 50 mL	1/kt
380CLCR4BC	380CELLCULTURE4-BC	Horiz., (36) 15 mL, (16) 50 mL, bio-lids	1/kt
380PLATE	380PLATE	Horiz., (10) microtiter	1/kt
ROTINA™ 380R centrifuge packages			
380RBLOOD2	380BLOOD2	Horiz., (32) 13's, (26) 16's	1/kt
380RBLD2BC	380BLOOD2-BC	Horiz., (32) 13's, (26) 16's, (4) bio-lids	1/kt
380RBLOOD4	380BLOOD4	Horiz., (64) 13's, (52) 16's	1/kt
380RBLD4BC	380BLOOD4-BC	Horiz., (64) 13's, (52) 16's, (4) bio-lids	1/kt
380RBOTTLE	380BOTTLE	Horiz., (4) 250/290 mL	1/kt
380RBOTILEBC	380BOTTLE-BC	Horiz., (4) 250/290 mL, bio-lids	1/kt
380RCLCLT2	380CELLCULTURE2	Horiz., (18) 15 mL, (8) 50 mL	1/kt
380RCLCLR4	380CELLCULTURE4	Horiz., (36) 15 mL, (16) 50 mL	1/kt
380RPLATE	380PLATE	Horiz., (10) microtiter	1/kt

Centrifuges and Accessories

Centrifuges/Microcentrifuges



C862147010



C862147060

Hettich ROTINA™ 420/420R Benchtop Centrifuges

HETTICH - The ROTINA™ 420 is a high-performance benchtop centrifuge for large sample volumes, yet not overly large in size. With a maximum capacity of 4 x 600 mL, (104) blood collection tubes, (52) 15 mL conical tubes or (16) plates, the ROTINA 420 and ROTINA 420R refrigerated (-20°C to +40°C) centrifuges are ideal for applications in clinical chemistry, in biotechnology and in life science research facilities.

The ROTINA 420 centrifuge features the high-capacity Versa-Rotor for tubes, bottles and plates eliminating the need to change, purchase or store additional rotors.

Specifications:

Maximum capacity.....	4 x 600 mL
Maximum speed	15,000 rpm
Maximum RCF	24,400 x g
Power requirements	115 V
Warranty	5 years

C862147010 (ROTINA™ 420)

Dimensions (H x W x D).....17 x 20 x 25.5 in.

C862147060 (ROTINA™ 420R)

Temperature control-20°C to +40°C

Dimensions (H x W x D).....17 x 28 x 26 in.

Cat. No.	Mfr. No.	Description	Qty.
C862147010	4701-01	ROTINA 420 model (see package listings below)	1/kt
C862147060	4706-01	ROTINA 420R refrigerated model (see package listings below)	1/kt
ROTINA™ 420 centrifuge packages			
420BLOD2BC	420BLOOD2-BC	Horiz., (52) 13's, (36) 16's, (4) bio-lids	1/kt
420BLOD4BC	420BLOOD4-BC	Horiz., (104) 13's, (72) 16's, (4) bio-lids	1/kt
420BT250BC	420BOTTLE-250-BC	Horiz., (4) 250 mL, bio-lids	1/kt
420BT400BC	420BOTTLE-400-BC	Horiz., (4) 400 mL, bio-lids	1/kt
420BOTTLE6	420BOTTLE-600-BC	Horiz., (4) 600 mL, bio-lids	1/kt
420CLCT2BC	420CELLCULTURE2-BC	Horiz., (26) 15's, (10) 50's, bio-lids	1/kt
420CLCT4BC	420CELLCULTURE4-BC	Horiz., (52) 15's, (20) 50's, bio-lids	1/kt
420PLATE	420PLATE	Horiz., (16) microtiter	1/kt
ROTINA™ 420R centrifuge packages			
420RBLD2BC	420RBLOOD2-BC	Horiz., (52) 13's, (36) 16's, (4) bio-lids	1/kt
420RBLD4BC	420RBLOOD4-BC	Horiz., (104) 13's, (72) 16's, (4) bio-lids	1/kt
420RB250BC	420RBOTTLE-250-BC	Horiz., (4) 250 mL, bio-lids	1/kt
420RB400BC	420RBOTTLE-400-BC	Horiz., (4) 400 mL, bio-lids	1/kt
420LE600BC	420RBOTTLE-600-BC	Horiz., (4) 600 mL, bio-lids	1/kt
420RPLATE	420RPLATE	Horiz., (16) microtiter	1/kt

Centrifuges and Accessories

Centrifuges/Microcentrifuges



Hettich ROTIXA 500RS Floor Model Centrifuge

HETTICH - The ROTIXA 500RS is a compact and versatile high-volume blood processing centrifuge. With the capacity to spin up to (4) 1 L blood bags or 192 blood tubes, and the support of convenient accessories such as the HettLiner insert, the ROTIXA 500RS is ideal for blood processing laboratories big and small. Its robust and steady temperature control system protects your samples by maintaining a consistent temperature throughout centrifugation. The ergonomic front-facing control panel is lockable and programmable with easy recall of application parameters, ensuring repeatability and limiting programming errors.

Specifications:

Maximum capacity 4 x 1,000 mL or 192 blood tubes
 Maximum speed 11,500 rpm
 Maximum RCF 17,441 x g
 Temperature control -20°C to +40°C
 Dimensions (H x W x D) 38.3 x 25.6 x 32 in.
 Power requirements 115 V
 Warranty 5 years

Cat. No.	Mfr. No.	Description	Qty.
4950-08H	4950-08	ROTIXA 500RS floor model (see package listings below)	1/ea

ROTIXA 500RS centrifuge packages

ROTIXA4BC	ROTIXBLOOD4-BC	Horiz., (120) 13's, 16's	1/kt
ROTBAG4	ROTIXBLOODBAG4	Horiz., (4) 450/500 mL	1/kt
ROTBAG4-HC	ROTIXBLOODBAG4-HC	Horiz., (4) 750/1,000 mL	1/kt
ROTIKALE4	ROTIXBOTTLE4	Horiz., (4) bottles	1/kt
RPLATE4-BC	ROTIXAPLATE4-BC	Horiz., (24) plates	1/kt

Accessories

4564HC	4564	Hettliner blood bag support	1/ea
4566HC	4566	Set of counterweights for 4584	1/ea



Hettich ROTOFIX™ 32A Benchtop Centrifuge

HETTICH - The ROTOFIX™ 32A is a rugged general-purpose benchtop centrifuge ideal for routine laboratory tasks in clinical, research, medical and industrial labs.

A variety of swing-out and fixed angle rotors are available, as well as a complete cytology system with bio-containment that accommodates up to 12 slide carriers. The ROTOFIX™ 32A comes standard with a solid metal housing and metal lid locks for extra protection to help ensure durability and user safety.

Specifications:

Maximum capacity 4 x 100 mL or 32 x 15 mL
 Maximum speed 6,000 rpm
 Maximum RCF 4,226 x g
 Dimensions (H x W x D) 10 x 14 x 17 in.
 Power requirements 115 V
 Warranty 5 years

Cat. No.	Mfr. No.	Description	Qty.
C862112060	1206-01	ROTOFIX™ 32A benchtop centrifuge (see package listings below)	1/kt

ROTOFIX™ 32A centrifuge packages

CYTOCLIP-R	CYTOCLIP-R	Basic clip rotor, (12) clips, (50) funnels	1/kt
32ACYTOCLP	32ACYTOCLIP12	Clip rotor, (12) steel clips, (50) funnels	1/kt
CYTOCLIPRS	CYTOCLIP-RS	Shielded clip rotor, (12) clips, funnels	1/kt
32CCLP12S	32ACYTOCLIP12-S	Shielded clip rotor, (12) steel clips, (50) funnels	1/kt
32ABLOOD	32ABLOOD	Horiz., (20) 13s and (16) 16s	1/kt
32ABLOODBC	32ABLOOD-BC	Horiz., (20) 13s and (16) 16s, bio-lid	1/kt
32ACLCLTR6	32ACELLCULTURE6	Horiz., (6) 15/50 mL	1/kt
32ACLCLTR4	32ACELLCULTURE4	Horiz., (16) 15 mL, (4) 50 mL	1/kt
32AURINLYS	32AURINALYSIS	Horiz., (12) KOVA	1/kt

Centrifuges and Accessories

Centrifuges/Microcentrifuges

Hettich ROTOFIX 46/46H Benchtop Centrifuges

HETTICH - The ROTOFIX 46/46H is available in both ambient and heated versions for research and industrial applications. The powerful and flexible benchtop centrifuge is ideal for organic and inorganic chemistry, preparatory and analytical chemistry, electroplating, and petrochemistry.

Accessories with solutions for a variety of specialty applications. Universal swing-out rotor for tubes and bottles ranging from 3 to 290 mL.



Specifications:

Power requirements 120 V
Warranty 5 years

ROTOFIX 46

Maximum capacity 4 x 290 mL
Maximum speed 4,000 rpm
Maximum RCF 3,095 x g
Dimensions (H x W x D) 14 x 21 x 25.5 in.

ROTOFIX 46H

Maximum capacity 4 x 100 mL
Maximum speed 2,000 rpm
Maximum RCF 984 x g
Temperature control +10°C to +90°C
Dimensions (H x W x D) 14 x 21 x 25.5 in.

Cat. No.

Mfr. No.

Description

Qty.

4600-01H	4600-01	ROTOFIX 46 model (see package listings below)	1/kt
4600-51H	4600-51	ROTOFIX 46H heated model (see package listings below)	1/kt

ROTOFIX 46 centrifuge packages

46SCHLENK	46SCHLENK	Angle, (6) 25/50 mL Schlenk	1/kt
46ASTM-50	46ASTM-50	Horiz., (4) 50 mL ASTM	1/kt
46ASTM100A	46ASTM-100A	Horiz., (4) 100 mL (58 x 161 mm) ASTM	1/kt
46ASTM100D	46ASTM-100D	Horiz., (4) 100 mL (45 x 165 mm) ASTM	1/kt

46ASTM100B	46ASTM-100B	Horiz., (4) 100 mL (44 x 168 mm) ASTM	1/kt
46ASTM100C	46ASTM-100C	Horiz., (4) 100 mL (37 x 200 mm) ASTM	1/kt
46BABCOCK	46BABCOCK	Horiz., (4) Babcock	1/kt

46CHROME	46CHROME	Horiz., (6) 30 mL chrome bath	1/kt
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ROTOFIX 46H centrifuge packages

46HSCHLENK	46HSCHLENK	Angle, (6) 25/50mL Schlenk	1/kt
46HSTM50	46HASTM-50	Horiz., (4) 50 mL ASTM	1/kt
46HSTM100A	46HASTM-100A	Horiz., (4) 100 mL (58 x 161 mm) ASTM	1/kt
46HAM-100D	46HASTM-100D	Horiz., (4) 100 mL (45 x 165 mm) ASTM	1/kt

46HSTM100B	46HASTM-100B	Horiz., (4) 100 mL (44 x 168 mm) ASTM	1/kt
46HSTM100C	46HASTM-100C	Horiz., (4) 100 mL (37 x 200 mm) ASTM	1/kt
46HBABCOCK	46HBABCOCK	Horiz., (4) Babcock	1/kt

46HCHROME	46HCHROME	Horiz., (6) 30 mL chrome bath	1/kt
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Hettich ROTO SILENTA 630RS Floor Standing Centrifuge

HETTICH - Engineered for whole blood processing and large sample volumes, the ROTO SILENTA is capable of spinning (12) 750 mL blood bags with or without satellite bags. The ROTO SILENTA combines a powerful motor with a wide range of accessories and a secure, hygienic environment to enable a fast, safe workflow. Its low deck height and open chamber provide easy access to the centrifuge rotor for ergonomic loading and unloading. Additionally, open access to the centrifuge chamber simplifies the cleaning process and reduces regular maintenance. Use one rotor for 6- and 12-place blood bag setups.

Multiple accessories are available such as Hettliner blood bag supports, Hettich loading station for double inserts, balancing inserts and counter weights for a complete effortless workflow.

Specifications:

Maximum capacity 6 x 2,000 mL
Maximum speed 6,000 rpm
Maximum RCF 6,520 x g
Temperature control +20°C to +40°C
Dimensions (H x W x D) 38 x 32 x 40 in.

Power requirements 208 V, 3 phase, 60 Hz
Warranty 5 years

Cat. No.	Mfr. No.	Description	Qty.
C8621-6320	5005-08	ROTO SILENTA 630RS floor model (see package listings below)	1/kt

ROTO SILENTA 630RS centrifuge packages

SILENG6-BC	SILENTABLOOD6-BC	Horiz., (6) 450/500 mL, bio-lids	1/kt
SILEND6-BC	SILENTABLOOD6-BC	Horiz., (180) tubes	1/kt
SILENTE2L	SILENTABOTTLE2L	Horiz., (6) 2 L	1/kt
SILENTG6HC	SILENTABLOODBAG6-HC	Horiz., (6) 500 mL – 1 L	1/kt
SILENAG12A	SILENTABLOODBAG12A	Horiz., (12) 450 mL	1/kt
SILEBAG12C	SILENTABLOODBAG12C	Horiz., (12) 500 mL	1/kt
SILENTG12B	SILENTABLOODBAG12B	Horiz., (12) 500/750 mL	1/kt

Accessories

4587-AHC	4587-A	Balancing insert for no. 4592-H	1/kt
4509HC	4509	Hettich loading station for double insert	1/kt
4564HC	4564	Hettliner blood bag support	1/kt
4566HC	4566	Set of counterweights for 4584	1/kt

Centrifuges and Accessories

Centrifuges/Microcentrifuges



C862114010



C862114060

Hettich UNIVERSAL™ 320/320R Benchtop Centrifuges

HETTICH - The UNIVERSAL™ 320 and 320R benchtop general purpose centrifuges provide excellent performance and a comprehensive range of accessories. Excellent performance and a comprehensive range of accessories enable the UNIVERSAL 320 to carry out virtually any centrifugation task including plates, blood tubes, cell culture, micro tubes and cytology. Available with or without refrigeration, the UNIVERSAL 320R provides a temperature range from -20°C to +40°C.

Specifications:

Maximum capacity	4 x 200 mL or 6 x 85 mL
Maximum speed	15,000 rpm
Maximum RCF	21,382 x g
Power requirements	115 V
Warranty	5 years

C862114010 (Universal™ 320)

Dimensions (H x W x D) 14 x 16 x 20.5 in.

C862114060 (Universal™ 320R)

Temperature control -20°C to +40°C

Dimensions (H x W x D) 14 x 16 x 27 in.

Cat. No.	Mfr. No.	Description	Qty.
C862114010	1401-01	UNIVERSAL™ 320 model (see package listings below)	1/kt
C862114060	1406-06	UNIVERSAL™ 320R refrigerated model (see package listings below)	1/kt
UNIVERSAL™ 320 centrifuge packages			
CYTOCLIP-R	CYTOCLIP-R	Clip rotor only, (12) steel clips, (50) funnels	1/kt
320CYTOCLP	320CYTOCLIP12	Clip rotor, (12) steel clips, (50) funnels	1/kt
CYTOCLIPRS	CYTOCLIP-RS	Shielded clip rotor, (12) clips, funnels	1/kt
320CCLP12S	320CYTOCLIP12-S	Shielded clip rotor, (12) steel clips, (50) funnels	1/kt
320BLOOD	320BLOOD	Horiz., (28) 13s, 16's	1/kt
320BLOOD4	320BLOOD4-BC	Horiz., (28) 13s, (20) 16s, bio-lid	1/kt
320CLCLTR4	320CELLCULTURE4	Horiz., (16) 15 mL, (4) 50 mL, conical	1/kt
320CELLCUL	320CELLCULTURE4-BC	Horiz., (8) 15 mL, (4) 50 mL conical, bio-lid	1/kt
320CONICAL	320CONICAL5-BC	Horiz., (16) 5 mL conical	1/kt
320PLATE	320PLATE	Horiz., (10) microtiter	1/kt
320URINLYS	320URINALYSIS	Horiz., (12) 12 mL/KOVA, (16) 10 mL	1/kt
UNIVERSAL™ 320R centrifuge packages			
320RBLOOD	320RBLOOD	Horiz., (28) 13's/16's	1/kt
320RBLOD	320RBLOOD4-BC	Horiz., (28) 13s (20)16s, bio-lid	1/kt
320RCONICA	320RCONICAL5-BC	Horiz., (16) 5 mL conical	1/kt
320RCLCLT4	320RCALLCULTURE4	Horiz., (16) 15 mL, (4) 50 mL	1/kt
320RPLATE	320RPLATE	Horiz., (10) microtiter	1/kt
320RURNLYS	320RURINALYSIS	Horiz., (12) 12 mL/KOVA, (16) 10 mL	1/kt

Centrifuges and Accessories

Centrifuges/Microcentrifuges

Hettich Accessories for UNIVERSAL™ 320/320R

HETTICH

Cat. No.	Mfr. No.	Description	Qty.
1554HH	1554	Swing-out rotor, 4-place	1/ea
1563HH	1563	Carrier	1/ea
1592HH	1592	Adapter, 1-place, 12/15 mL capacity	1/ea
1560HH	1560	Carrier with clamp lock	1/ea
1561HH	1561	Lid, bio-containment	1/ea
1573HH	1573	Adapter, 1-place, 25 mL capacity	1/ea
1578HH	1578	Adapter, 1-place, 30 mL capacity	1/ea
1585HH	1585	Adapter, 1-place, 30 mL capacity	1/ea
1587HH	1587	Adapter, 1-place, 30 mL capacity	1/ea
1582HH	1582	Adapter, 1-place, 25/30 mL capacity	1/ea
1574HH	1574	Adapter, 1-place, 50 mL capacity	1/ea
1579HH	1579	Adapter, 1-place, 50 mL capacity	1/ea
1583HH	1583	Adapter, 1-place, 50 mL capacity	1/ea
1586HH	1586	Adapter, 1-place, 50 mL capacity	1/ea
1575HH	1575	Adapter, 1-place, 94 mL capacity	1/ea
1576HH	1576	Adapter, 1-place, 100 mL capacity	1/ea
1594HH	1594	Adapter, 1-place, 125/150 mL capacity	1/ea
1577HH	1577	Adapter, 2-place, 15 mL capacity	1/ea
1591HH	1591	Adapter, 3-place, 12 mL capacity	1/ea
1595HH	1595	Adapter, 3-place, 15 mL capacity	1/ea
1593HH	1593	Adapter, 4-place, 5 mL capacity	1/ea
1581HH	1581	Adapter, 4-place, 12 mL capacity	1/ea
1572HH	1572	Adapter, 4-place, 15 mL capacity	1/ea
1588HH	1588	Adapter, 5-place, 9/15 mL capacity	1/ea
1584HH	1584	Adapter, 5-place, 10 mL capacity	1/ea
1571HH	1571	Adapter, 7-place, 1.5/2 mL capacity	1/ea
1589HH	1589	Adapter, 7-place, 5/6/7 mL capacity	1/ea

Hettich Rolling Cabinets

HETTICH - Moveable cabinets for Hettich centrifuges save space on the laboratory bench by providing enhanced flexibility. The cabinets lower the centrifuge to an ergonomic height for easy loading and unloading. Each cabinet provides ample storage for user manuals, rotors, buckets and accessories. Important documentation and accessories remain with the centrifuge at all times. All cabinets are of sturdy design and feature casters with two wheel locks, drawer locks and 2 keys.



Cabinets are available in 1 and 2 drawer versions both high and low varieties. Please check dimensions of your centrifuge to determine the proper fit.

Cat. No.	Mfr. No.	Description (H x W x D)	Qty.
HE4612-A	4612-A	Rolling cabinet, low/narrow, 1 drawer, 10.23 x 21.65 x 25.5 in.	1/ea
C86214614K	4614-K	Cabinet rolling low/wide, 1 drawer, 10.23 x 30.3 x 25.5 in.	1/ea
HE4613-A	4613-A	Rolling cabinet, high/narrow, 2 drawer, 21.65 x 21.65 x 25.5 in.	1/ea
HE4615-A	4615-A	Rolling cabinet, high/wide, 2 drawer, 21.65 x 30.3 x 25.5 in.	1/ea

Combo V24 Centrifuge

LW SCIENTIFIC - The Combo V24 spins 24 test tubes (3 mL to 15 mL) up to 4,000 rpm (2,400 g-force) in an angled rotor for serum separations in under 10 minutes. The variable speed control allows the unit to spin slower for urines and other biological specimens needing lower g-forces. Choose either the manual-control model with variable speed knob and mechanical timer, or choose the digital model for more precise times and digital tachometer showing actual rotor speed. The Combo V24 is built with an all-metal body with a metal rotor and metal tube sleeves for strength and durability.



C5700-36 model shown

Cat. No.	Mfr. No.	Description	Qty.
C5700-36	CMC-24AV-1501	V24 centrifuge, 24-place angled test-tube rotor	1/ea
MC24AV15T1	CMC-24AV-15T1	V24 centrifuge, 24-place angled rotor, digital	1/ea

Centrifuges and Accessories

Centrifuges/Microcentrifuges



Universal Centrifuge

LW SCIENTIFIC - The Universal Centrifuge features a ZERO-RPM locking lid for safety and digital programming of time and speed ranging from 800–3,400 rpm. Achieve up to 1,450 x g with the fixed angle rotor and 1,809 x g with the swing-out rotor resulting in clean, easy to read lines of separation. Programmable digital time and speed. The Universal Centrifuge has a 110–220 V auto-switching power adapter.

Maximum tube sizes:

- 4-place, 50 mL rotor: 30 x 120 mm (W x H)
- 6-place swing-out 15 mL rotor: 17.5 x 131 mm (W x H)
- 8-place fixed-angle 15 mL rotor: 17.5 x 122 mm (W x H)

Specifications:

Variable speed 800–3,400 rpm

Dimensions (H x L x W) 10.65 x 14.5 x 14.5 in.

Power requirements 110–220 V auto-switching



4-place 50 mL rotor



6-place swing-out 15 mL rotor



8-place angled 15 mL rotor



8CU8AF1503 fixed model



8CU8AV1503 variable model

USA E8 Centrifuge

LW SCIENTIFIC - This model is loaded with features and improvements, such as higher speeds for faster and cleaner separations, quieter operation for work environments, lower chamber temperatures for cooler test-tube samples, shorter height to fit under any cabinet, and auto-calibrating speed for precision results. It even has an auto-brake to stop the rotor in less than 30 seconds to save time in busy labs. The E8 family also includes a digital model, with no knobs and precise time and speed programs for CLIA compliance and the highest accuracy at an affordable price.



8CU8AD15T3 digital model

The E8 fixed is designed for blood separations at a fixed speed of 3,500 rpm only (1,534 g-force). The E8 variable and E8 digital will separate blood at 3,500 rpm and can be slowed to separate other fluids at lower g-force, such as urine specimens as outlined by CLIA regulations.

Features:

- Clear view port in lid for using tachometer
- Suction-cupped feet prevent slipping
- Lid safety shut-off switch
- 12 volt DC maintenance-free motor

Specifications:

Rotor Angled rotor, 8-tube capacity

Capacity 3 to 15 mL size tubes

Maximum speed 3,500 rpm

Maximum RCF 1,534 x g

Power requirements 100–220 V auto-switching

Cat. No.	Mfr. No.	Description	Qty.
NC04AD50T3	UNC-04AD-50T3	Universal centrifuge with 4-place 50 mL rotor	1/ea
UNC06SD15T	UNC-06SD-15T3	Universal centrifuge with 6-place swing-out 15 mL rotor	1/ea
UNC8AD15TA	UNC-08AD-15T3	Universal centrifuge with 8-place angled 15 mL rotor	1/ea

Cat. No.	Mfr. No.	Description	Qty.
8CU8AF1503	E8C-U8AF-1503	8-place angled centrifuge fixed-speed for blood only	1/ea
8CU8AV1503	E8C-U8AV-1503	8-place angled centrifuge variable-speed	1/ea
8CU8AD15T3	E8C-U8AD-15T3	8-place angled centrifuge digital speed and time	1/ea

Centrifuges and Accessories

Centrifuges/Microcentrifuges

ZipCombo Centrifuge

LW SCIENTIFIC - The ZipCombo is a multi-function micro-centrifuge available with a choice of rotors to meet all your micro-centrifugation needs in one unit. The flat microhematocrit rotor spins shorter capillary tubes and eliminates angled separation lines, clay blow-outs and broken tubes. The six place microtube rotor spins 1.5 to 2 mL tubes for serum and urine separations and comes with adapters for smaller sized tubes (0.2–1.5 mL). Designed with robust construction for long life, the ZipCombo is well-suited to accomplish blood and urine separations, microfiltrations, and DNA preparations. The small footprint makes the ZipCombo Centrifuge the perfect addition to any clinic or lab.

- Interchangeable rotors
- Digital LCD display of speed and time; lid open/close
- Clear lid for using tachometer; beep signals end of cycle
- Suction-cupped feet to prevent slipping
- 24 V brushless DC motor



Specifications:

Variable speed 1,000–12,000 rpm in steps of 1,000 rpm

Maximum RCF 6,900 x g

Digital timer 15 seconds–99 minutes or continuous mode

Dimensions (H x W x L) 5.1 x 6.3 x 7.9 in.

Power requirements 100–240 V 50/60 Hz auto-switching

Cat. No.	Mfr. No.	Description	Qty.
CC06AD02T3	ZCC-06AD-02T3	Centrifuge with 6-place microtube rotor	1/ea
CC12HD40T3	ZCC-12HD-40T3	Centrifuge with 12-place microhematocrit rotor, vial of 200, 40 mm capillary tubes and reader card	1/ea
CC120677T3	ZCC-1206-77T3	Centrifuge with 6-place microtube rotor, 12-place microhematocrit rotor, vial of 200, 40 mm capillary tubes and reader card	1/ea

Frontier™ 5000 Series Mini

OHAUS - The Frontier™ 5306 is a powerful mini centrifuge for simple and rapid liquid separation.

The Frontier 5306 includes an 8-position 1.5/2 mL tube rotor as well as a 4-position 8-strip PCR tube rotor that can accommodate 32 individual PCR tubes or 0.2 mL strip tubes. With the included adapters, 0.2 mL and 0.5 mL strip tubes can also be accommodated in the 8-position tube rotor, further increasing its versatility. Frontier 5306 also has a quick release design in which the rotors can be removed and installed without the use of any tools. This centrifuge provides quiet, safe, and easy operation for your everyday quick spin-down applications.



Specifications:

Maximum capacity8 x 1.5/2 mL, 4 x 8-place PCR Strips

Maximum speed 6,000 rpm

Maximum RCF 2,000 x g

Dimensions (H x L x W) 5 x 6.6 x 5.9 in.

Power requirements 100–240 V

Cat. No.	Mfr. No.	Description	Qty.
30134157	30134157	FC5306 model - mini centrifuge	1/ea

Centrifuges and Accessories

Centrifuges/Microcentrifuges

Thermo Scientific™ Heraeus™ Cryofuge™ 5500i Refrigerated Floor Model Centrifuge

THERMO FISHER SCIENTIFIC - The Heraeus™ Cryofuge™ 5500i large capacity centrifuges can be used in a wide range of environments for a variety of blood banking and clinical applications. Offering optimal capacity for small, blood processing centers and blood banks, these versatile centrifuges can accommodate blood bags, blood collection, clinical tubes and clinical analyzer tube racks. Each centrifuge features Thermo Scientific™ SMARTSpin™ imbalance detection system, a Soft-Touch lid lock and a maintenance-free brushless induction drive. Rotors and accessories are sold separately.



Specifications:

Maximum capacity.....8 x 500 mL blood bags, 4 x 1,000 mL or 4 x 8 standard microplates
Maximum speed10,000 rpm
Maximum RCF15,320 x g
Temperature range.....-9°C to +40°C
Dimensions (H x W x D).....38 x 27 x 28 in.

Cat. No.	Mfr. No.	Description	Qty.
C1721-55	75004475	Cryofuge™ 5500i - 120 V, 60 Hz	1/ea
C1721-56	75004479	Cryofuge™ 5500i - 200–230 V, 60 Hz,	1/ea
C1721-63	75006476	LH-4000W windshield swinging bucket rotor - 8 x 500 mL	1/ea
C1721-50	75006436	Double bucket	1 pr/ea
C1721-52	75006477	Round bucket	1/ea
C1721-53	75006421	Sealing cap	1 pr/ea

Thermo Scientific™ Heraeus™ Megafuge™ 8 Centrifuge Series

THERMO FISHER SCIENTIFIC - Carry out clinical and research applications with the Heraeus™ Megafuge™ 8 small benchtop centrifuge, featuring a smart, simple interface and exceptional capacity in a compact design—now available in both ventilated and refrigerated models. It fits in to your lab, with its compact footprint. Innovative Thermo Scientific™ technologies, including Auto-Lock rotor exchange for secure, push-button application flexibility and ClickSeal biocontainment lids for one-handed sample protection. Process up to 8 x 50 mL conical tubes, 24 x 5/7 mL blood tubes, microplates and microtubes, all in one versatile centrifuge.



Specifications:

Maximum capacity.....4 x 145 mL (SW), 6 x 50 mL (FA)
Maximum speed16,000 rpm (Meg 8), 17,850 rpm (Meg 8R)
Maximum RCF24,328 x g (Meg 8), 30,279 x g (Meg 8R)
Temperature range.....-10°C to +40°C (ref. unit)
Dimensions (L x W x H)18.9 x 14.6 x 12.2 in. (Meg 8)
26.4 x 18.1 x 12.6 in. (Meg 8R)

Cat. No.	Mfr. No.	Description	Qty.
H75007210	75007210	Heraeus® Megafuge™ 8 ventilated, 120 V, 60 Hz	1/ea
H75007211	75007211	Heraeus® Megafuge™ 8 ventilated, 230 V, 50/60 Hz	1/ea
H75007213	75007213	Heraeus® Megafuge™ 8R refrigerated, 120 V, 60 Hz	1/ea

Thermo Scientific™ Heraeus™ Megafuge™ 8 Centrifuge Clinical Packages

THERMO FISHER SCIENTIFIC - For the simplicity and convenience of ordering the Heraeus™ Megafuge™ 8 centrifuges, rotors and accessories you can now order one part number which will come with everything you'll need to start your centrifugation process, right out of the box. See all our clinical centrifuge packages below:

Cat. No.	Mfr. No.	Heraeus Centrifuge (120V)	Package Includes:
H75100102	75100102	Megafuge 8	TX-150 rotor, TX-150 round bucket (4), sealing lids (4), 14 mL urine adapter (4), 5/7 mL vac blood collection tube adapter (4)
H75130102	75130102	Megafuge 8R	TX-100 clinical SB rotor with unsealed carriers, adapters with 5/7 mL blood tube
H75100596	75100596	Megafuge 8	TX-100S clinical SB rotor with sealed carriers, adapters with 5/7 mL blood tube
H75100496	75100496	Megafuge 8	TX-150 rotor, TX-150 round bucket (4), sealing lids (4), HIGHConic rotor
H75100709A	75100709	Megafuge 8	HIGHConic rotor, adapters for 12 mL tubes (16 x 95 mm) - set of 6
H75100947	75100947	Megafuge 8	M-10 swinging bucket rotor, unsealed bucket set, set of 2
75100623A	75100623	Megafuge 8	
H75130623	75130623	Megafuge 8R	

Thermo Scientific™ Megafuge ST4 Plus Centrifuge Series

THERMO FISHER SCIENTIFIC - The new Megafuge ST4 Plus series features a standard high contrast user interface for up to 6 saved programs with simple push-button operation for routine applications. With capacity up to 4 L, including 196 blood tubes and 96 x 15 mL conical tubes, Auto-Lock™ for fast rotor exchange and 13 available rotors.

- Intuitive controls simplify operation and provide detailed information on a wide range of operating parameters and processing status
- Motorized lid latch enables one finger downward motion for easiest closing and locking of centrifuge lid
- 40% energy consumption savings on industry standard protocols, such as standard blood separation or conical tubes processing
- Compact dimensions optimize work area
- Ergonomic height and curved design ensure easy sample loading, unloading and easy cleaning

Benefit from innovative Thermo Scientific™ technologies, such as:

Auto-Lock™ III rotor system:

- Secure locking system allows easy push-button installation and exchange of rotors
- System saves time in switch between applications
- Easy access to rotor chamber offers quick cleaning, a healthier working environment and longer unit life

ClickSeal™ bucket sealing system:

- Biocontainment solution seals with a snap; eliminates screw caps and complicated clips
- System has glove-friendly, one-handed open/close capability
- System is certified by CAMR™ in Porton Down, UK

Specifications:

Maximum capacity 4 L (4 x 1,000 mL)

Maximum speed 15,200 rpm (FA)

Maximum RCF 25,830 x g (FA)

Temperature range -10°C to +40°C (ref. unit)

Dimensions (L x W x H) 27.2 x 22.3 x 14.2 in. (ST4), 27.2 x 29.4 x 14.2 in. (ST4R)



*Indicates a centrifuge, rotor and/or adapter product approved for use in clinical applications; see user manual for details.

Centrifuges and Accessories

Centrifuges/Microcentrifuges

Thermo Scientific™ Multifuge X4 Pro Centrifuge Series

THERMO FISHER SCIENTIFIC - The new Multifuge X4 Pro series touch screen enables easier programming for quicker results — plus easily access and track all runs, rotor life and centrifuge health. With capacity up to 4 L, including 196 blood tubes and 96 x 15 mL conical tubes, Auto-Lock™ for fast rotor exchange.

- Full color intuitive touch screen for fast programming, centrifuge health monitoring and up to 100 program storage.
- Detailed operation information, including display of set and actual parameters, maximizes run performance and temperature accuracy
- Easily adjust speed, time and temperature, even during the run, with the convenient keyboard for direct input.
- Double temperature management system displays the air temperature in the chamber as well as the sample temperature
- Innovative lid-locking technology enables one finger downward motion for easy closing and locking of centrifuge lid.
- Compact size conserves workspace on benchtop or floor.
- Ergonomic height and curved design ensure comfortable sample handling and cleaning of unit.
- Saves up to 40% of energy on industry standard protocols such as blood separations or conical-tube processing

Benefit from innovative Thermo Scientific™ technologies, such as:

Auto-Lock™ III rotor system:

- Secure locking system allows easy push-button installation and exchange of rotors
- Saves time in switch between applications
- Easy access to the chamber enables quick cleaning, a healthier working environment and longer unit life

ClickSeal™ bucket sealing system:

- Biocontainment system seals with a snap; eliminates screw caps and complicated clips
- Glove-friendly, one-handed open/close capability
- Certified by CAMR™ in Porton Down, UK

SMARTSpin™ technology:

- Advanced rotor management system maximizes acceleration, braking and residual load imbalance for each rotor and bucket option
- Optimizes safety and improves separations

Specifications:

Maximum capacity 4 L (4 x 1,000 mL)

Maximum speed 15,200 rpm (FA)

Maximum RCF 25,830 x g (FA)

Temperature range -10°C to +40°C (ref. unit)

Dimensions (L x W x H) 27.2 x 22.3 x 14.2 in. (X4), 27.2 x 29.4 x 14.2 in. (X4R)



Cat. No.	Mfr. No.	Multifuge Centrifuge (120 V)	Package Includes:
75009501	75009501	X4 Pro-MD	X4 Pro-MD ventilated centrifuge only
75009516	75009516	X4R Pro-MD	X4R Pro-MD refrigerated centrifuge only
75016034*	75016034	X4 Pro-MD	TX-1000 rotor with Auto-Lock™ buckets (set/4) ClickSeal™ biocontainment lids (set/4)
75016033*	75016033	X4R Pro-MD	5/7 mL blood tube adapters (set/4, 196 tube capacity) 10 mL blood tube adapters (set/4, 148 tube capacity)
75016046*	75016046	X4 Pro-MD	TX-1000 rotor with Auto-Lock™ buckets (set/4) ClickSeal™ biocontainment lids (set/4)
75016045*	75016045	X4R Pro-MD	15 mL conical tube adapters (set/4, 96 tube capacity) 50 mL conical tube adapters (set/4, 40 tube capacity)

*Indicates a centrifuge, rotor and/or adapter product approved for use in clinical applications; see user manual for details.

Centrifuges and Accessories

Centrifuges/Microcentrifuges



Thermo Scientific™ Heraeus™ Megafuge™ 16 Centrifuge Series

THERMO FISHER SCIENTIFIC - The Heraeus™ Megafuge™ 16 general purpose centrifuge series delivers exceptional capacity, ergonomic features and value for routine centrifugation needs.

It is ideal for everyday sample processing including cell culture and microplate processing, and clinical applications including clinical chemistry, hematology, RBC, coag studies, pathology/urinalysis, clinical microbiology, clinical immunology and immunological testing.

Compact dimensions optimize work area and ergonomic height and curved design enables easy sample loading and unloading and easy cleaning.

These centrifuges also incorporate intuitive controls for simple operation and innovative Thermo Scientific™ technologies, such as:

- **Auto-Lock™** rotor exchange which enables a push-button installation and exchange of rotors, saving time switching between applications and also enabling easy access to rotor chamber for quick cleaning, a healthier working environment and longer unit life
- Certified **ClickSeal™** biocontainment lids enable one-handed open/close capability, eliminating screw caps and complicated clips

Specifications:

Maximum capacity.....	1.6 L (4 x 400 mL)
Maximum speed	15,200 rpm (FA)
Maximum RCF	25,830 x g (FA)
Temperature range.....	-10°C to +40°C (ref. unit)
Dimensions (L x W x H)	23.8 x 17.3 x 14.2 in. (Meg 16) 23.8 x 24.5 x 14.2 in. (Meg 16R)

Cat. No.	Mfr. No.	Description	Qty.
H75004231	75004231	Heraeus™ Megafuge™ 16 ventilated centrifuge	1/ea
H75004271	75004271	Heraeus™ Megafuge™ 16R refrigerated centrifuge	1/ea

Thermo Scientific™ Heraeus™ Multifuge™ X1 Centrifuge Series

THERMO FISHER SCIENTIFIC - Handle a diverse range of laboratory applications with the Thermo Scientific™ Heraeus™ Multifuge™ X1 centrifuge series, which features a broad range of rotors and adapters.

Featuring industry-leading throughput and energy-efficient operation, this centrifuge series can handle a range of general-purpose processing, including cell culture, microplate, bio-production, blood separation and microbiology. It features a convenient 1 L capacity and is available in both ventilated and refrigerated units, which are ideal for processing temperature-sensitive samples.

Benefit from innovative Thermo Scientific™ technologies, such as:

Auto-Lock™ rotor exchange:

- Secure locking system allows easy push-button installation and exchange of rotors.
- System saves time in switch between applications.
- Easy access to the chamber enables quick cleaning, a healthier working environment and longer unit life.

ClickSeal™ bio-containment lids:

- Bio-containment system that seals with a snap; eliminates screw caps and complicated clips
- Glove-friendly, one-handed open/close capability
- Certified by CAMR™ in Porton Down, UK

Space-saving design:

- Compact size conserves workspace.
- Ergonomic height and curved design ensure comfortable sample handling and cleaning of unit.

Specifications:

Maximum capacity.....	1.6 L (4 x 400 mL)
Maximum speed	15,200 rpm (FA)
Maximum RCF	25,830 x g (FA)
Temperature range.....	-10°C to +40°C (ref. unit)
Dimensions (L x W x H)	23.8 x 17.3 x 14.2 in. (X1) 23.8 x 24.5 x 14.2 in. (X1R)

Cat. No.	Mfr. No.	Description	Qty.
H75004211	75004211	Heraeus™ Multifuge™ X1 ventilated centrifuge	1/ea
H75004251	75004251	Heraeus™ Multifuge™ X1R refrigerated centrifuge	1/ea



Centrifuges and Accessories

Centrifuges/Microcentrifuges

Thermo Scientific™ Heraeus™ Multifuge™ X3 Centrifuge Series

THERMO FISHER SCIENTIFIC - The Heraeus™ Multifuge™ X3 centrifuge series offers outstanding performance and versatility, energy efficiency and a broad range of rotors and adapters. This centrifuge series can handle a range of general-purpose processing, including cell culture, microplate, bioproduction, blood separation and microbiology. It features a convenient 4 L capacity and is available in both ventilated and refrigerated units, which are ideal for processing temperature-sensitive samples.

The Heraeus™ Multifuge X3 series also offers innovative Thermo Scientific™ technologies, such as:

Auto-Lock™ rotor exchange:

- Secure locking system allows easy push-button installation and exchange of rotors.
- System saves time in switch between applications.
- Easy access to the chamber enables quick cleaning, a healthier working environment and longer unit life.

ClickSeal™ biocontainment lids:

- Biocontainment system that seals with a snap; eliminates screw caps and complicated clips
- Glove-friendly, one-handed open/close capability
- Certified by CAMR™ in Porton Down, UK

Space-saving design:

- Compact size conserves workspace.
- Ergonomic height and curved design ensure comfortable sample handling and cleaning of unit.

Specifications:

Maximum capacity	4 L (4 x 1,000 mL)
Maximum speed	15,200 rpm (FA)
Maximum RCF	25,830 x g (FA)
Temperature range	-10°C to +40°C (ref. unit)
Dimensions (L x W x H)	26.4 x 22.2 x 33.2 in.



Cat. No.	Mfr. No.	Description	Qty.
H75004531	75004531	Heraeus™ Multifuge™ X3F ventilated centrifuge, floor-standing model	1/ea
H75004537	75004537	Heraeus™ Multifuge™ X3FR refrigerated centrifuge, floor-standing model	1/ea

Thermo Scientific™ Heraeus™ Megafuge™ and Multifuge General Purpose Centrifuge Clinical Packages

THERMO FISHER SCIENTIFIC - Heraeus™ Megafuge™ and Multifuge™ General Purpose Centrifuges:

Fits in:

- With compact designs – spin 4 liters in a traditional 3-liter footprint with the Thermo Scientific™ TX-1000 rotor.
- Clinical applications, with a wide range of rotors and accessories.

Stands out:

- Featuring innovative Thermo Scientific™ technologies, including:
- Push-button security and application flexibility with Auto-Lock™ rotor exchange.
- One-handed sample protection with ClickSeal™ biocontainment lids.
- Outstanding ergonomics and performance with Fiberlite™ carbon fiber rotors.

And for your convenience, you can now order one part number which will come with everything you'll need to start your centrifugation process, right out of the box... see all our clinical centrifuge packages below:

Cat. No.	Mfr. No.	Heraeus Centrifuge (120V)	Package Includes:
H75310885	75310885	Megafuge 16	TX-200 swinging bucket rotor, 200 mL round buckets (4), ClickSeal lids (4), 7 x 15/10 mL blood collection adapters (4), 8 x 5/7 mL blood collection adapters (4)
H75710885	75710885	Megafuge 16R	
H75318180	75318180	Megafuge 16	TX-400* swinging bucket rotor, 400 mL round buckets (4), ClickSeal lids (4), 14 x 15/10 mL blood collection adapters (4), 19 x 5/7 mL blood collection adapters (4)
H75718180	75718180	Megafuge 16R	
H75312452	75312452	Megafuge 16	M-20 microplate rotor
H75712452	75712452	Megafuge 16R	
H75310094A	75310094	Megafuge 16	8 x 50 individually sealed rotor
H75010817	75010817	Multifuge X3F	TX-750* swinging bucket rotor, carriers for microplates and T-H75 horizontal flasks
H75311771	75311771	Multifuge X3F	TX-1000* swinging bucket rotor, 1,000 mL buckets (4), ClickSeal lids (4), 37 x 10 mL blood collection adapters (4), 49 x 5/7 mL blood collection adapters
H75371771	75371771	Multifuge X3FR	

*Now with Thermo Scientific™ Slide-Coat™ anti-friction finish

Cat. No.	Mfr. No.	Description	Dimensions (H x W x D)
Accessories - bench carts for Thermo Scientific General Purpose Centrifuges			
C1900-6	76000076	Under bench cart for refrigerated centrifuges	Under bench cart: 11 x 30 x 26 in., 290 x 750 x 665 mm
C19008	76000078	Under bench cart non-refrigerated centrifuges	Under bench cart: 11 x 22 x 26 in., 290 x 550 x 665 mm
C1900-7	76000077	Bench height cart non-refrigerated centrifuges	Bench height cart 24 x 22 x 26 in., 600 x 550 x 665 mm

Centrifuges and Accessories

Centrifuges/Microcentrifuges

Thermo Scientific™ Heraeus™ Pico™ and Fresco™ Microcentrifuges

THERMO FISHER SCIENTIFIC - These microcentrifuges provide quick and efficient processing of micro volume samples, such as molecular biology tests, DNA/RNA isolation, and hematocrit processing. Their fast acceleration/deceleration times provide higher throughput per hour and the extensive rotor selection and two speed options available (17,000 and 21,000 x g) easily allow for both complex and simple protocols. Intuitive controls and bright displays allow for easy setup and operation, and the integrated timer with HOLD mode is programmable from 1 through 99 minutes in 1 minute increments. For added safety, its transparent Thermo Scientific™ ClickSeal™ biocontainment rotor lid makes an audible click when a proper seal has been made, ensuring that samples are secure and also allowing the user to see if there's an issue with the sample without removing the containment lid. Highly-resistant rotor materials allow vigorous cleaning and autoclaving. Small footprint minimizes bench space required.

Specifications:

Maximum capacity.....	24 x 1.5/2 mL
Maximum speed.....	13,300 rpm (Pico/Fresco 17), 14,800 rpm (Pico/Fresco 21)
Maximum RCF	17,000 x g (Pico/Fresco 17), 21,100 x g (Pico/Fresco 21)
Temperature range.....	-10°C to +40°C (ref. unit)
Dimensions (L x W x H)	13.8 x 9.6 x 8.9 in. (Pico 17/21), 17.5 x 11.6 x 12.9 in. (Fresco 17/21)



Cat. No.	Mfr. No.	Description	Qty.
Pico 17 microcentrifuge			
C1900-50	75002411	60 Hz, 24 x 1.5/2 mL rotor, ClickSeal® lid	1/ea
C1900-60	75002492	60 Hz, 24 x 1.5/2 mL hematocrit rotor	1/ea
Pico 21 microcentrifuge			
C1900-56	75002416	60 Hz, 24 x 1.5/2 mL rotor, ClickSeal® lid	1/ea
C1900-58	75002477	60 Hz, 24 x 1.5/2 mL rotor, ClickSeal® lid, dual row rotor 18 x 0.5 mL and 18 x 2 mL with screw-on lid	1/ea
Fresco 17 microcentrifuge			
C1900-51	75002421	60 Hz, 24 x 1.5/2 mL rotor, ClickSeal® lid	1/ea
Fresco 21 microcentrifuge			
C1900-57	75002426	60 Hz, 24 x 1.5/2 mL rotor, ClickSeal® lid	1/ea
C1900-59	75002478	60 Hz, 24 x 1.5/2 mL rotor, ClickSeal® lid, dual row rotor 18 x 0.5 mL and 18 x 2 mL with screw-on lid	1/ea
Replacement parts			
C1900-52	75003424	24 x 1.5/2 mL rotor, ClickSeal® lid	1/ea
C1715-36	76003758	0.5/0.6 mL microliter tube adapters	24/pk

Thermo Scientific™ Medifuge™ Small Benchtop Centrifuge

THERMO FISHER SCIENTIFIC - The Medifuge™ Small Benchtop Centrifuge is ideal for clinical laboratory procedures such as processing patients' samples for blood, urine or fecal separations, for clinical chemistry, hematology, RBC or coag studies. It fits in with its compact design and stands out with the unique Thermo Scientific™ DualSpin™ rotor featuring a 2-in-1 hybrid design. Easily change between fixed angle and swinging buckets using the same rotor and utilize up to four customizable programs allowing you to quickly run routine protocols. It also has three selectable deceleration profiles, including a brake-off option, are designed to optimize separation.

Specifications:

Maximum capacity.....	8 x 15 mL (fixed angle), 8 x 10 mL (swinging bucket)
Maximum speed.....	4,900 rpm
Maximum RCF	3,114 x g (fixed angle), 3,490 x g (swinging bucket)
Dimensions (L x W x H)	17.7 x 12.8 x 9.5 in.



Cat. No.	Mfr. No.	Description	Qty.
75008801	75008801	Medifuge™ centrifuge, 120 V, 60 Hz, includes: dual spin rotor body, fixed angle buckets (set of 8) swinging buckets (set of 8), green/short spacers (set of 8), yellow/long spacers (set of 8)	1/ea

Centrifuges and Accessories

Centrifuges/Microcentrifuges

Thermo Scientific™ mySPIN™ 6 Mini Centrifuge

THERMO FISHER SCIENTIFIC - The mySPIN™ 6 Mini Centrifuge has an ergonomic design, tool-free rotors and quick-spin options make it fast and easy to use. Ideal for microfilter cell separations and HPLC samples, with adapters to accommodate all major microtube and PCR tube styles (0.2, 0.5, 1.5, 2 mL) for customized use.

Includes: 6 x 1.5/2 mL tube rotor, 16 x 0.2 mL tube rotor (singles or 2 x 8 strip), 6 tube adapters 0.2 mL, 6 tube adapters 0.5 mL, storage case for rotors and adapters, tube rack, universal power adapter 110–240 V, 50/60 Hz, with 4 interchangeable plug type.

- Small footprint for efficient use of lab space
- Easy operation and palm-shaped lid for left- or right-handed users
- Quick-spin feature
- Quiet operation, low vibration
- Safety features including unit will not operate without lid in place for safety
- Tool-free, quick rotor exchange

Specifications:

Capacity 6 x 2 mL
 Maximum speed 6,000 rpm
 Maximum RCF 2,000 x g
 Dimensions (H x W x D) 4.1 x 5 x 6 in.



Cat. No.	Mfr. No.	Description	Qty.
75004061	75004061	mySPIN™ 6 Mini Centrifuge	1/ea

Thermo Scientific™ mySPIN™ 12 Mini Centrifuge

THERMO FISHER SCIENTIFIC - The mySPIN™ 12 Mini Centrifuge is designed to give you maximum speed and flexibility in a minimized footprint. Its compact, ergonomic design fits on any workstation and is comfortable and easy for anyone to operate. Safety features help ensure it will not operate when the lid is open, a rotor is jammed, or the unit is out of balance. Ideal for most protocols requiring fast spins (12,500 rpm/9,800 x g), and appropriate for PCR, microfilter cell separation, and HPLC protocols.

Includes: 6 x 1.5/2 mL tube rotor, 16 x 0.2 mL tube rotor (singles or 2 x 8 strip), 6 tube adapters 0.2 mL, 6 tube adapters 0.5 mL, storage case for rotors and adapters, tube rack, universal power adapter 110–240 V, 50/60 Hz, with 4 interchangeable plug type.

- Small footprint for efficient use of lab space
- Easy operation, with back-lit, customizable display that can be set for rpm or RCF
- Designed for quick and pulse spins
- Quiet operation, low vibration
- Safety features including imbalance and tilt safety cut-out, as well as safety interlock lid designed to prevent opening while rotor is turning
- Includes 2 rotors to accommodate 0.2, 0.5, 1.5, 2 mL microcentrifuge tubes and PCR strip tubes
- Tool-free, quick rotor exchange



Specifications:

Capacity 12 x 2 mL
 Maximum speed 12,500 rpm
 Maximum RCF 9,800 x g
 Dimensions (H x W x D) 4.4 x 6.7 x 8 in.

Cat. No.	Mfr. No.	Description	Qty.
75004081	75004081	mySPIN™ 12 Mini Centrifuge	1/ea

Centrifuges and Accessories

Centrifuges/Microcentrifuges



Thermo Scientific™ CW3 Cell Washer

THERMO FISHER SCIENTIFIC - The CW3 cell washing system is designed for precise, automated performance, providing thorough, reproducible blood cell washing, up to 24 tubes per run. Save time with pre-set programs in automatic mode and flexibility of 12- or 24-place rotors meets your protocol requirements. Easy-to-read digital display enables simple, user friendly operation.

Efficient performance

- Finish washing 24 samples in as little as 3 minutes
- Achieve optimal corpuscle dryness by setting desired decanting speed

User-friendly design

- Save time with pre-set programs in automatic mode
- Four stage display: wash, centrifuge, decant, agitate
- Manual mode available to wash the cells step-by-step, allowing closed monitoring of washing process
- Tube racks with red and blue number labeling for easy sample balancing

Safe operation

- Automatic alerts for low or disrupted saline level and for a completed run
- View port on top of unit is available for speed calibration
- Reduces risk of cross-contamination with the saline distributor mounted directly on top of the rotor
- Stainless steel rotor body enhances system durability
- Low-maintenance design with easy-to-change pump tubing
- Cleaning convenience with easy-to-remove catch basin, rotor and rotating bowl

Cat. No.	Mfr. No.	Description	Qty.
75007404	75007404	CW3 Cell Washer, 120 V (no rotor included)	1/ea
K75007400	75007400	CW3 Cell Washer, 120 V, 60 Hz, with 12-place rotor and distributor assembly	1/ea
K75007402	75007402	CW3 Cell Washer, 120 V, 60 Hz, with 24-place rotor and distributor assembly	1/ea
Replacement rotor and distributor assembly			
75000021	75000021	12-place rotor assembly with distributor	1/ea
75000020	75000020	24-place rotor assembly with distributor	1/ea

Thermo Scientific™ 8 x 50 mL Individually Sealed Fixed-Angle Rotor

THERMO FISHER SCIENTIFIC - The 8 x 50 mL Sealed Fixed-Angle Rotor have 8 conical tubes in individually sealed vessels.

Compatible with: Thermo Scientific™ Heraeus™ Megafuge™ 16/16R and Multifuge™ X1/X1R centrifuges.



Specifications:

Capacity 8 x 50 mL
Maximum speed 6,500 rpm
Maximum RCF 6,755 x g

Cat. No.	Mfr. No.	Description	Qty.
H75003694	75003694	8 x 50 mL individually sealed rotor for 50 mL conical tubes	1/ea
H75003689	75003689	Sealing lids for microplate carriers - set of 4	1/ea

Thermo Scientific™ BIOShield™ 720 Swinging Bucket Rotor

THERMO FISHER SCIENTIFIC - Safely spin frequently-used tubes with the Thermo Scientific™ BIOShield™ 720 High-Speed Swinging-Bucket Rotor. Tube adapters, sold in sets of four, are sold separately.



Compatible with: Thermo Scientific™ Heraeus™ Megafuge™ 16/16R and Multifuge™ X1/X1R centrifuges.

Specifications:

Maximum capacity 4 x 180 mL
Maximum speed 6,300 rpm
Maximum RCF 7,188 x g

Cat. No.	Mfr. No.	Description	Qty.
H75003183	75003183	BIOShield™ 720 Swinging Bucket Rotor	1/ea
Accessories			
H75003821	75003821	Adapter for 5/7 mL blood collection tube (13 x 75–100 mm) (set of 4)	1/ea
H75003701	75003701	Adapter for 10 mL blood collection tube (16 x 100 mm) (set of 4)	1/ea
H75003693	75003693	180 mL Bio-Bottle - polypropylene (set of 12)	1/ea

Centrifuges and Accessories

Centrifuges/Microcentrifuges



Thermo Scientific™ CLINICOnic™ Fixed Angle Rotor

THERMO FISHER SCIENTIFIC - Optimize separations with fast acceleration of 30 blood tubes or 15 mL conical in a fixed angle configuration with the Thermo Scientific™ CLINICOnic™ Fixed Angle Rotor.

Compatible with: Thermo Scientific™ Heraeus™ Megafuge™ 8/8R/16/16R and Multifuge™ X1/X1R centrifuges.

Specifications:

Capacity 30 x 15 mL
Maximum speed 4,400 rpm
Maximum RCF 3,030 x g

Cat. No.	Mfr. No.	Description	Qty.
H75003623	75003623	CLINICOnic Rotor, 37°, radius max 140 mm	1/ea

Thermo Scientific™ Hematocrit Fixed Angle Rotor

THERMO FISHER SCIENTIFIC - Save time in clinical processing applications with the Thermo Scientific™ Hematocrit Fixed Angle Rotor, which provides dedicated blood processing to achieve 24 capillary separations per run.

Compatible with: Thermo Scientific™ Heraeus™ Megafuge™ 8/8R centrifuges.

Specifications:

Capacity 24 capillaries
Maximum speed 13,300 rpm
Maximum RCF 16,810 x g

Cat. No.	Mfr. No.	Description	Qty.
H75005733	75005733	Hematocrit rotor, 90°, Rmax 85 mm, includes linear scale	1/ea



Thermo Scientific™ HIGHConic™ II Fixed Angle Rotor

THERMO FISHER SCIENTIFIC - Deliver biocontainment at 10,350 rpm with the Thermo Scientific™ HIGHConic™ II Aluminum Fixed-Angle Rotor.

Compatible with: Thermo Scientific™ Heraeus™ Megafuge™ 16/16R/ST40 Plus/ST40R Plus and Multifuge™ X1/X1R/X3/X3R/X3F/X4 Pro/X4R Pro centrifuges.

Specifications:

Capacity 6 x 94 mL
Maximum speed 10,350 rpm
Maximum RCF 15,090 x g

Cat. No.	Mfr. No.	Description	Qty.
H75003620	75003620	HighConic II rotor	1/ea
Accessories			
H75003058	75003058	Replacement sealing O-rings (set of 2 with grease)	1/set



Thermo Scientific™ HIGHConic™ III Fixed Angle Rotor

THERMO FISHER SCIENTIFIC - View samples through a transparent lid for added safety and convenience with the Thermo Scientific™ HIGHConic™ III rotor, which accommodates 6 x 50 mL conical tubes at up to 9,500 rpm/12,108 x g in a fixed angle configuration for your research-based applications.



Compatible with: Thermo Scientific™ Heraeus™ Megafuge™ 8/8R centrifuges.

Specifications:

Capacity 6 x 50 mL
Maximum speed 9,500 rpm (**Meg 8R**) 8,700 rpm (**Meg 8**)
Maximum RCF 12,108 x g (**Meg 8R**) 10,155 x g (**Meg 8**)

Cat. No.	Mfr. No.	Description	Qty.
H75005709	75005709	Thermo Scientific™ HighConic III rotor	1/ea
Accessories			
H75005731	75005731	Replacement lid (each)	1/ea
H75003058	75003058	Replacement sealing O-rings (set of 2 with grease)	1/set

Centrifuges and Accessories

Centrifuges/Microcentrifuges

Thermo Scientific™ HIGHPlate™ 6000 Microplate Rotor

THERMO FISHER SCIENTIFIC - The HIGHPlate™ 6000 Microplate Rotor accommodates a variety of filtration plates up to 80 mm high.



Compatible with: Thermo Scientific™ Multifuge X4 Pro and Heraeus™ Multifuge™ X3/X3R/X3F/X3FR centrifuges.

Specifications:

Capacity 2 x 5 standard plates

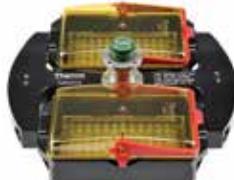
Maximum speed 6,300 rpm

Maximum RCF 6,168 x g

Cat. No.	Mfr. No.	Description	Qty.
H75003606	75003606	HIGHPlate microplate rotor	1/ea



H75005706 rotor with H75005723 unsealed buckets



H75005706 rotor with H75005721 sealed buckets

Thermo Scientific™ M-10 Rotor

THERMO FISHER SCIENTIFIC - Ideally suited for quick spins—process 4 microplates or 2 midi-deepwell plates with the convenience of transportable carriers using the Thermo Scientific™ M10 Microplate swinging bucket rotor.

Compatible with: Thermo Scientific™ Heraeus™ Megafuge™ 8/8R centrifuges.

Specifications:

Capacity 4 standard or 2 deepwell microplates

Maximum speed 4,400 rpm

Maximum RCF 2,576 x g

Cat. No.	Mfr. No.	Description	Qty.
H75005706	75005706	M10 swinging bucket rotor, 90°, Rmax 119 mm (order buckets separately)	1/ea

Accessories

H75005723	75005723	Unsealed buckets (set of 2)	1/set
H75005721	75005721	Sealed buckets (set of 2) Rmax 109 mm	1/set

Thermo Scientific™ M-20 Microplate Swinging Bucket Rotor

THERMO FISHER SCIENTIFIC - The M-20 Microplate spins up to six microplates and, using sealed carriers, ensure certified sealed conditions for all samples.



Compatible with: Thermo Scientific™ Multifuge X4 Pro and Megafuge X4 Plus, Heraeus™ Megafuge™ 16/16R/40/40R and Multifuge™ X1/X1R/X3/X3R/X3F/X3FR centrifuges

Specifications:

Capacity 2 x 3 standard or 2 x 1 deepwell plates

Maximum speed 4,000 rpm

Maximum RCF 2,272 x g

Cat. No.	Mfr. No.	Description	Qty.
H75003624	75003624	M-20 microplate rotor	1/ea

Thermo Scientific™ Microliter 48 x 2 mL Sealed Aluminum Fixed Angle Rotor

THERMO FISHER SCIENTIFIC - The Microliter 48 x 2 mL Sealed Aluminum Fixed Angle Rotor supports micro-volume protocols. Capacity flexibility from PCR to microtubes.



Compatible with: Thermo Scientific™ Multifuge X4 Pro and Megafuge X4 Plus, Heraeus™ Megafuge™ 16/16R/40/40R and Multifuge™ X1/X1R/X3/X3R/X3F/X3FR centrifuges.

Specifications:

Capacity 48 x 2 mL

Maximum speed 15,200 rpm

Maximum RCF 25,314 x g

Cat. No.	Mfr. No.	Description	Qty.
H75003602	75003602	Microliter 48 x 2 mL rotor	1/ea

Centrifuges and Accessories

Centrifuges/Microcentrifuges

Thermo Scientific™ TX-150 Rotor

THERMO FISHER SCIENTIFIC - Perform a wide range of clinical and research applications with the Thermo Scientific™ TX-150 swinging bucket rotor. This rotor accommodates up to 24 x 5/7 mL blood collection tubes or 8 x 50 mL conical tubes at 4,500 rpm/3,260 x g, and provides additional flexibility for swing-out processing needs with available adapters. Rotor innovations—from Thermo Scientific™ Auto-Lock™ rotor exchange to Thermo Scientific™ ClickSeal™ biocontainment lids—shorten run set-up time while providing peace-of-mind that samples are secure.



Compatible with: Thermo Scientific™ Heraeus™ Megafuge™ 8/8R centrifuges

Specifications:

Capacity 4 x 145 mL (SW)
Maximum speed 4,500 rpm
Maximum RCF 3,260 x g

Cat. No.	Mfr. No.	Description	Qty.
H75005701	75005701	Thermo Scientific™ TX-150 Rotor	1/ea
Accessories			
H75005703	75005703	50 mL conical buckets (unsealed, no adapter needed) (set of 4)	1/set
H75005707	75005707	ClickSeal biocontainment lids for round buckets (set of 4)	1/set
H75005808	75005808	15 mL conical adapters for 50 mL conical buckets (PN: 75005703) - set of 2	1/set

Thermo Scientific™ TX-200 Swinging Bucket Rotors

THERMO FISHER SCIENTIFIC - The TX-200 rotor accommodates a wide range of processing volumes. Capacity is flexible with round bucket adapters ranging from 180 to 2.0 mL.



Compatible with: Thermo Scientific™ Heraeus™ Multifuge™ X1/X1R and Megafuge™ 16/16R centrifuges.

Specifications:

Capacity 4 x 180mL (0.72 L)
Maximum speed 5,500 rpm
Maximum RCF 5,580 x g

Cat. No.	Mfr. No.	Description	Qty.
H75003658	75003658	TX-200 rotor cross	1/ea
H75003659	75003659	Round buckets, 200 mL (set of 4)	1/set
Accessories			
H75003660	75003660	ClickSeal biocontainment lids (set of 4)	1/set
H75003800	75003800	180 mL Bio-Bottle - polypropylene (set of 12)	1/set
Adapters			
H75003812	75003812	Adapter for 48 x 2 mL conical microtube (set of 4)	1/set
H75003807	75003807	Adapter for 8 x 14 mL conical urine tube (set of 4)	1/set
H75003810	75003810	Adapter for 36 x 5/7 mL round bottom open-top tube (set of 4)	1/set
H75003771	75003771	Adapter for 20 x 15 mL conical tube (set of 4)	1/set
H75003808	75003808	Adapter for 28 x 10/15 mL blood collection tube (set of 4)	1/set
H75003785	75003785	Adapter for 32 x 5/7 mL blood collection tube (set of 4)	1/set
H75003803	75003803	Adapter for 4 x 50 mL conical or skirted tube (set of 4)	1/set

Centrifuges and Accessories

Centrifuges/Microcentrifuges

Thermo Scientific™ TX-400 Swinging Bucket Rotors

THERMO FISHER SCIENTIFIC - The TX-400 Swinging Bucket Rotor supports a wide range of sample sizes and applications. The rotor accepts 32 to 76 blood tubes and up to 16 conical tubes in a single run. Flexible capacity with adapters ranging from 400 to 1.5 mL.

Compatible with: Thermo Scientific™ Heraeus™ Multifuge™ X1/X1R and Megafuge™ 16/16R centrifuges

Specifications:

Capacity 4 x 400 mL (1.6 L)
Maximum speed/RCF 5,000 rpm / 4,696 x g



Cat. No.	Mfr. No.	Description	Qty.
H75003181	75003181	TX-400 rotor cross	1/ea
H75003655	75003655	Round buckets, 400 mL (set of 4)	1/set
Accessories			
H75003656	75003656	ClickSeal biocontainment lids (set of 4)	1/set
H75003657	75003657	Replacement O-rings for lids (pk of 4)	1/set
H75007585	75007585	400 mL Bio-Bottle - polypropylene (set of 12)	1/set
Adapters			
H75003680	75003680	Adapter for 19 x 5/7 mL blood collection tube (set of 4)	1/set
H75003798	75003798	Adapter for 7 x 15 mL conical urine tube (set of 4)	1/set
H75003681	75003681	Adapter for 14 x 10/15 mL blood collection tube (set of 4)	1/set
H75003704	75003704	Adapter for 10 x 15 mL round bottom tube (set of 4)	1/set
H75003682	75003682	Adapter for 9 x 15 mL conical tube (set of 4)	1/set
H75003700	75003700	Adapter for 136 x 2 mL conical microtube (set of 4)	1/set
H75003683	75003683	Adapter for 4 x 50 mL conical tube (set of 4)	1/set

Thermo Scientific™ TX-750 Swinging Bucket Rotor

THERMO FISHER SCIENTIFIC - The TX-750 Swinging Bucket Rotor delivers maximum flexibility at 4,700 rpm. Capacity is flexible with adapters ranging from 750 to 1.5 mL. Choose from round or rectangular buckets and a wide array of available adapters. Optional microplate carriers accommodate standard and deepwell microplates for greater versatility.



Compatible with: Thermo Scientific™ Multifuge X4 Pro and Megafuge X4 Plus, Heraeus™ Megafuge™ 40/40R and Multifuge™ X3/X3R/X3F/X3FR centrifuges

Specifications:

Capacity 4 x 750 mL (3 L)
Maximum speed 4,700 rpm
Maximum RCF 4,816 x g

Cat. No.	Mfr. No.	Description	Qty.
75003180	75003180	TX-750 rotor	1/ea
H75003608B	75003608	Round buckets, 750 mL	4/pk
H75003609A	75003609	ClickSeal biocontainment lids for round buckets	4/pk
H75003638	75003638	Adapter for 28 x 50 mL conical tube	4/pk
H75003639A	75003639	Adapter for 56 x 15 mL conical tube	4/pk
H75003719	75003719	Adapter 84 x 10/15 mL blood collection tube	4/pk
H75003723	75003723	Adapter 108 x 5/7 mL blood collection tube	4/pk



Thermo Scientific™ TX-1000 Swinging Bucket Rotor

THERMO FISHER SCIENTIFIC - The TX-1000 Swinging Bucket Rotor delivers maximum flexibility at 4,200 rpm and can accommodate up to 196 blood tubes in one run. With its flexibility in capacity and the ability to spin a variety of tubes and micro plates, this rotor is definitely the most productive rotor for your centrifuges.

Compatible with: Thermo Scientific™ Multifuge X4 Pro and Megafuge X4 Plus, Heraeus™ Megafuge™ 40/40R and Multifuge™ X3/X3R/X3F/X3FR centrifuges.

Specifications:

Maximum capacity 4 x 1,000 mL (4 L)
Maximum speed 4,200 rpm
Maximum RCF 4,121 x g

Cat. No.	Mfr. No.	Description	Qty.
H75003017	75003017	TX-1000 rotor cross	1/ea
H75003001	75003001	TX-1000 buckets (set of 4)	1/set
Accessories			
H75007309	75007309	TX-1000 ClickSeal biocontainment lids (set of 4)	1/set
H75007300	75007300	1000 mL Bio-Bottle - polypropylene (set of 4)	1/set

Centrifuges and Accessories

Centrifuges/Microcentrifuges

UNICO® C-MH30 Microhematocrit Centrifuge

UNICO - The C-MH30 Microhematocrit Centrifuge is built for years of dependable use. A safety switch built into the latch assembly disconnects the power to the motor whenever the latch is lifted. The brushed motor is mounted on rubber mounts to provide quiet running and dampen vibration.

- Twenty-four (24) place rotor with replaceable rubber ring and screw down metal lid
- Includes microhematocrit tube reader
- Dependable mechanical 5-minute timer with bell signal at end of run
- Safety switch in latch shuts off motor when lid is lifted
- Electric motor braking
- Indicator light tells when unit is in use

Specifications:

Nominal speed 12,000 rpm
Power requirements 115 V, 60 Hz AC

Cat. No.	Mfr. No.	Description	Qty.
C-MH30	C-MH30	24-place microhematocrit centrifuge with reader	1/ea



UNICO® PowerSpin™ FX and LX Centrifuges

UNICO - The PowerSpin™ series centrifuges are compact, economical and quiet. Offered in both fixed (FX) and variable (LX) speed models with fixed angle rotors, for 6 or 8 tubes to spin 7.5 to 15 mL tubes. By using adapters, you can also spin tubes ranging from 2 to 7 mL. An optional Tube Holdster™ allows you to have up to 18 tubes or adapters at your fingertips, side-mounted on the centrifuge. PowerSpins are pre-drilled/tapped to accept optional Tube Holdsters.

- Standard 6- or 8-place rotor for 2 to 15 mL tubes
- Adapters for 2 mL or 4-7 mL tubes (part # C800-04 and C800-03)
- 0-30 minute timer with bell tone signal
- Quiet at full speed, only 58 decibels
- Latching lid with safety switch triggered to shut-off power to the motor when the lid is opened
- Stainless steel rotor chamber is easily accessible for cleaning and disinfection
- Maintenance-free brushless motors
- Suction cup rubber feet for stability while reducing vibration
- Lid window for strobe tachometer RPM check

Specifications:

FX centrifuge

Maximum speed 3,400 rpm (fixed speed)
Maximum RCF 1,350 x g

LX centrifuge

Maximum speed 300-4,000 rpm (variable speed)
Maximum RCF 1,825 x g



PowerSpin™ FX, C806

PowerSpin™ LX, C856

Cat. No.	Mfr. No.	Description	Qty.
FX centrifuges			
C806	C806	6-place rotor - 6 x 10 mL	1/ea
C808	C808	8-place rotor - 8 x 10 mL	1/ea
LX centrifuges			
C856	C856	6-place rotor - 6 x 10 mL	1/ea
C858	C858	8-place rotor - 8 x 10 mL	1/ea
Accessories for PowerSpin™ centrifuges			
C800-01	C800-01	8-place rotor	1/ea
C800-03	C800-03	Short tube adapters for 4-7 mL tubes	10/pk
C800-04	C800-04	Small tube adapters for 2 mL tubes	2/pk



Premier Plus Series Lab Refrigerators

CARDINAL HEALTH - Premier Plus high-performance lab refrigerators combine advanced temperature control with high-quality cabinet construction and alarm systems. Positive, forced-air circulation is designed to maintain temperature uniformity to protect important medical and pharmaceutical-grade storage as well as laboratory media, reagents and more. Available in glass or solid door models.

- Variable Speed Compressor Technology adjusts cooling performance to the conditions
- SNAP compliant
- Forced-air circulation for temperature uniformity at all shelf levels
- Heat-free defrost for maximum temperature uniformity
- Quiet operation
- Four 2 in. casters for easy mobility; the front two are lockable
- Bright, LED interior lighting
- Keyed on/off switch with easy to use, setpoint security
- Self-closing door with 90° stop to assist with inventory loads
- Built-in remote alarm contacts

ENERGY STAR®, UL and cUL certified.



CAX2305GA



CAX2305SA

Temperature range: +3°C to +7°C, factory pre-set to +5°C, auto defrost

Cat. No.	Cu. Ft.	Voltage (Hz)	Electrical Plug	Cabinet	Door	Shelves	Int. Dimensions* D x W x H in.	Ext. Dimensions* D x W x H in.	Ship Wt. lbs.
CAX1205GA	11.5	115 (60)	NEMA 5-15	Space saver	Single, glass	4	21.8 x 20 x 52.4	30.5 x 24 x 73	339
CAX1205GD	11.5	208–230 (60)	NEMA 6-15	Space saver	Single, glass	4	21.8 x 20 x 52.4	30.5 x 24 x 73	339
CAX1205SA	11.5	115 (60)	NEMA 5-15	Space saver	Single, solid	4	21.8 x 20 x 52.4	31.1 x 24 x 73	340
CAX1205SD	11.5	208–230 (60)	NEMA 6-15	Space saver	Single, solid	4	21.8 x 20 x 52.4	31.1 x 24 x 73	340
CAX2305GA	23	115 (60)	NEMA 5-15	Upright	Single, glass	4	28.5 x 24 x 58	37.8 x 28 x 78.5	450
CAX2305GD	23	208–230 (60)	NEMA 6-15	Upright	Single, glass	4	28.5 x 24 x 58	37.8 x 28 x 78.5	429
CAX2305SA	23	115 (60)	NEMA 5-15	Upright	Single, solid	4	28.5 x 24 x 58	37.9 x 28 x 78.5	426
CAX2305SD	23	208–230 (60)	NEMA 6-15	Upright	Single, solid	4	28.5 x 24 x 58	37.9 x 28 x 78.5	405
CAX3005GA	29.2	115 (60)	NEMA 5-15	Upright	Single, glass	4	28.5 x 30 x 58	37.3 x 34 x 78.5	458
CAX3005GD	29.2	208–230 (60)	NEMA 6-15	Upright	Single, glass	4	28.5 x 30 x 58	37.3 x 34 x 78.5	458
CAX3005SA	29.2	115 (60)	NEMA 5-15	Upright	Single, solid	4	28.5 x 30 x 58	37.9 x 34 x 78.5	459
CAX3005SD	29.2	208–230 (60)	NEMA 6-15	Upright	Single, solid	4	28.5 x 30 x 58	37.9 x 34 x 78.5	459
CAX4505GA	45.8	115 (60)	NEMA 5-15	Upright	Double, sliding glass	8	26 x 52.5 x 58	36.6 x 56.5 x 78.5	611
CAX4505GD	45.8	208–230 (60)	NEMA 6-15	Upright	Double, sliding glass	8	26 x 52.5 x 58	36.6 x 56.5 x 78.5	611
CAX5005GA	51.1	115 (60)	NEMA 5-15	Upright	Double, glass	8	28.5 x 52.5 x 58	37.8 x 56.5 x 78.5	669
CAX5005GD	51.1	208–230 (60)	NEMA 6-15	Upright	Double, glass	8	28.5 x 52.5 x 58	37.8 x 56.5 x 78.5	669
CAX5005SA	51.1	115 (60)	NEMA 5-15	Upright	Double, solid	8	28.5 x 52.5 x 58	37.9 x 56.5 x 78.5	621
CAX5005SD	51.1	208–230 (60)	NEMA 6-15	Upright	Double, solid	8	28.5 x 52.5 x 58	37.9 x 56.5 x 78.5	621

* Published interior volumes are nominal; useable cu. ft. capacities may be offset by shelves, drawers, blower coils, or cabinet protrusions. For specific cabinet dimensions and allowances, or for verification of clearance tolerances, contact our sales representatives. Product performance may be affected by ambient temperature conditions, humidity conditions, sample loading preferences, and frequency of door openings. Contact our sales representatives for specific inquiries regarding your application.

Cold Storage

Refrigerators: General Laboratory

Pro Series Laboratory Refrigerators

CARDINAL HEALTH - Pro Series Laboratory Refrigerators are ideal for the demanding requirements of daily use in research, clinical, and industrial laboratories storing reagents, media, proteins and samples used in the lab. These refrigerators combine the performance, security and quality required for everyday laboratory applications.

- SNAP compliant
- Quiet operation
- Adaptive defrost
- Glass (double pane) or solid door configurations
- Choice of white painted interior and exterior, or stainless steel interior and gray exterior
- LED interior lighting
- Temperature, door ajar, and power failure (with battery back-up) alarms
- Digital controller
- Low heat output
- Rear access port
- Keyed door lock(s)
- Remote alarm contacts

ENERGY STAR® and cULus certified.



CHG25RPGA



CHG25RPSA



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energystar.gov

Temperature range: +2°C to +10°C, preset to +5°C, adaptive defrost

Cat. No.	Cu. Ft.	Voltage (Hz)	Electrical Plug	Door	Finish Interior/Exterior	Shelves	Int. Dimensions D x W x H in.	Ext. Dimensions D x W x H in.	Ship Wt. lbs.
CHG12RPGA	12	115 (60)	NEMA 5-15	Single, glass	Painted	4	20.75 x 21 x 45.75	25 x 24.75 x 75.8	230
CHG25RPGA	23	115 (60)	NEMA 5-15	Single, glass	Painted	4	28.5 x 24 x 61.75	32 x 27.75 x 81	392
CHG25RPSA	23	115 (60)	NEMA 5-15	Single, solid	Painted	4	28.5 x 24 x 61.75	32 x 27.75 x 81	392
CHG25RSGA	23	115 (60)	NEMA 5-15	Single, glass	Stainless steel	4	28.5 x 24 x 61.75	32 x 27.75 x 81	392
CHG25RSSA	23	115 (60)	NEMA 5-15	Single, solid	Stainless steel	4	28.5 x 24 x 61.75	32 x 27.75 x 81	392
CHG30RPGA	27	115 (60)	NEMA 5-15	Single, glass	Painted	4	28.5 x 27 x 61.75	32 x 30.75 x 81	386
CHG30RPSA	27	115 (60)	NEMA 5-15	Single, solid	Painted	4	28.5 x 27 x 61.75	32 x 30.75 x 81	386
CHG30RSGA	27	115 (60)	NEMA 5-15	Single, glass	Stainless steel	4	28.5 x 27 x 61.75	32 x 30.75 x 81	386
CHG30RSSA	27	115 (60)	NEMA 5-15	Single, solid	Stainless steel	4	28.5 x 27 x 61.75	32 x 30.75 x 81	386
CHG45RPLA	45	115 (60)	NEMA 5-15	Double slide, glass	Painted	8	28.5 x 49 x 61.75	32 x 52.7 x 81	561
CHG45RSLA	45	115 (60)	NEMA 5-15	Double slide, glass	Stainless steel	8	28.5 x 49 x 61.75	32 x 52.7 x 81	561
CHG49RPGA	49	115 (60)	NEMA 5-15	Double, glass	Painted	8	28.5 x 49 x 61.75	32 x 52.7 x 81	597
CHG49RPSA	49	115 (60)	NEMA 5-15	Double, solid	Painted	8	28.5 x 49 x 61.75	32 x 52.7 x 81	597
CHG49RSGA	49	115 (60)	NEMA 5-15	Double, glass	Stainless steel	8	28.5 x 49 x 61.75	32 x 52.7 x 81	597
CHG49RSSA	49	115 (60)	NEMA 5-15	Double, solid	Stainless steel	8	28.5 x 49 x 61.75	32 x 52.7 x 81	597
CHG72RPGA	72	115 (60)	NEMA 5-15	Triple, glass	Painted	12	28.5 x 72 x 61.75	32 x 75.7 x 81	733
CHG72RSGA	72	115 (60)	NEMA 5-15	Triple, glass	Stainless steel	12	28.5 x 72 x 61.75	32 x 75.7 x 81	733

Refrigerators: General Laboratory

Premier Pass-Through Refrigerators

NOR-LAKE SCIENTIFIC - These laboratory refrigerators have a front and rear door, for two-sided access. They are available with one pair, two pairs or three pairs in a variety of configurations—glass front door(s) and solid back door(s), all-glass doors or all-solid doors. All models have a microprocessor control with high/low audible and visual alarms, remote alarm contacts and an LED digital display. The exterior front, solid doors and sides are white. The exterior top and bottom are galvanized steel. The interior liner and door panel are white and there are three epoxy-coated shelves per door, which can be adjusted in 1 in. increments.

Cabinet and doors are formed-in-place with high-density polyurethane foam insulation. Doors have pull handles, key locks and self-adjusting magnetic gaskets. These refrigerators feature top-mounted refrigeration. There are four casters (two locking) on one- and two-door models. UL/CUL-listed, CE Mark. Refrigerators are available with several optional features including extra shelves, two-way drawer wire baskets or two-way stainless-steel drawers (on applicable models), chart recorder, lead access ports and stainless-steel interior and exterior. Warranties: 18-month parts and labor, 5-year compressor (US and Canada).

Specifications:

Temperature range 2°C to 10°C factory preset at 4°C

Power requirement 115 V, 60 Hz

PT242WWF0

Shelf area 12.8 sq. ft.

Interior dimensions (H x W x D) 59 x 23½ x 32 in.

Exterior dimensions (H x W x D) 79¾ x 27½ x 37¾ in.

PT554WWG0 and PT524WWF0

Shelf area 28.6 sq. ft.

Interior dimensions (H x W x D) 59 x 51 x 32 in.

Exterior dimensions (H x W x D) 79¾ x 55 x 37¾ in.

NSPT806WWG and NSPT806WWF

Shelf area 42.8 sq. ft.

Interior dimensions (H x W x D) 59 x 78½ x 32 in.

Exterior dimensions (H x W x D) 79¾ x 82½ x 37¾ in.



PT554WWG0

Cat. No.	Mfr. No.	Description	Qty.
Glass front door solid back door			
PT554WWG0	NSPT524WWG/0	55.7 cu. ft. - 2 doors	1/ea
NSPT806WWG	NSPT806WWG/0	85.8 cu. ft. - 3 doors	1/ea
All glass doors			
PT242WWF0	NSPT242WWF/0	25.6 cu. ft. - 1 door	1/ea
PT524WWF0	NSPT524WWF/0	55.7 cu. ft. - 2 doors	1/ea
NSPT806WWF	NSPT806WWF/0	85.8 cu. ft. - 3 doors	1/ea

Cold Storage

Refrigerators: General Laboratory

Premier Lab Refrigerator with Sliding Glass Doors

NOR-LAKE SCIENTIFIC - Designed to meet the demanding requirements of scientific and laboratory applications, this premier laboratory refrigerator features two sliding glass doors and a microprocessor control with digital LED display. Factory preset operating temperature is 4°C. Audible and visual alarms will alert you of temperature fluctuations. Remote alarm contacts are included.

The unit offers top-mounted refrigeration, an air-cooled condensing unit, automatic defrost and foamed-in-place, high-density polyurethane foam insulation. The exterior and interior are white and there are six epoxy-coated adjustable shelves. Doors have a self-closing and hold-open feature. Other features include fluorescent interior lighting, key locks and four casters (two locking). Refrigerators are also available with optional internal electrical outlet, chart recorder, access port and stainless-steel interior and exterior. UL/CUL listed. Warranties: 18-month parts and labor, 5-year compressor (US and Canada).

Specifications:

Shelf area	26 sq. ft.
Temperature range	2°C to 10°C factory preset at 4°C
Power requirements	115 V, 60 Hz
Interior dimensions (H x W x D)	59 x 51 x 30 in.
Exterior dimensions (H x W x D)	79½ x 55 x 34 in.

Cat. No.	Mfr. No.	Description	Qty.
LR502WWG0	NSPR502WWG/0	52 cu. ft. refrigerator	1/ea



Select™ Glass Door Laboratory Refrigerators

NOR-LAKE SCIENTIFIC - These refrigerators include a digital 4 x 20 character LCD display microprocessor temperature controller with audible and visual high/low temperature alarm, which can be tested. Remote alarm contacts. Door ajar alarm, visual and audible (volume adjustable). Sensor failure alarm. 100-event alarm logging. Password protection and adjustable alarm beep or constant on (keypad selectable). Door opening counter with 24-hour automatic reset.

Air-cooled condensing unit, top-mounted forced air refrigeration system and automatic defrost and condensate evaporation. Continuous product temperature display and low battery test switch with buzzer. Real-time date/time display. Digital calibration for air and product. Three sensor system (two product, one air). Fan motor run time monitor. Defrost heater time monitor. Condenser/compressor run time monitor. Interior light, switch activated.

White exterior cabinet front, sides and back. Interior cabinet liner is also white. Exterior cabinet top and bottom are galvanized steel. Cabinet and solid doors are foamed-in-place with CFC-free high-density polyurethane foam insulation. Glass door(s), full size, double pane with pivot hinges and pull door handles. Magnetic door gaskets. Key door lock(s) (two keys). Three coated wire shelves per door section. Sensor access port, 1 in. diameter. Four casters on one- and two-door models. 2 to 10 V DC output for product temperature (selectable to air temperature)

Warranties: 24-month parts and labor, 5-year compressor (US and Canada). UL/CUL listed.

Specifications:

Temperature control range	2°C to 10°C factory preset at 4°C
Power requirements	115 V, 1PH, 60 Hz, NEMA plug 5-15P
Interior dimensions (H x W x D)	59 x 23½ x 30 in.
Exterior dimensions (H x W x D)	79½ x 27½ x 35½ in.

Cat. No.	Mfr. No.	Description	Qty.
NSSR241WG0	NSSR241WWG/0	24 cu. ft. refrigerator	1/ea



Cold Storage



Large Capacity Laboratory Refrigerators

PHC CORPORATION OF NORTH AMERICA* - ENERGY STAR® certified the Large Capacity Laboratory Refrigerator, which offers a stable and reliable environment for carrying out clinical, pharmaceutical and industrial research at uniform temperatures. A user-friendly design and flexible temperature range allows for application in various laboratory procedures, including chromatography and pharmaceutical storage.

- Unique defrost cycle is performed automatically during compressor "off" cycles by sensing frost levels
 - Uniformity with forced air circulation
 - Microprocessor controller for maintaining temperature levels with audible and visual alarms
 - Versatile design with adjustable shelves and a wide setpoint range for varying laboratory applications

Specifications:

Temperature range.....2°C to 23°C, adjustable by 1°C increments

Warranty 2-year parts and labor, 3-year compressor parts

MPR-722/MPR-722R dimensions

Interior (W x D x H) 25.6 x 27.9 x 59.1 in.

Exterior (W x D x H)..... 30.3 x 36.2 x 76.9 in.

MPR-1412/MPR-1412R dimensions

Interior (W x D x H) 52 x 28 x 59.1 in.

Exterior (W x D x H)..... 56.7 x 36.2 x 76.8 in.

**Formerly known as Panasonic Healthcare Corporation of North America*

Cat. No.	Mfr. No.	Description	Qty.
Single doors			
MPR-722-PA	MPR-722-PA	24.2 cu. ft.- single swing door, 4 wire shelves, 115 V	1/ea
MPR-722RPA	MPR-722R-PA	23.7 cu. ft. - single swing door, 5 roll-out drawers, 115 V	1/ea
Accessories for model MPR-722			
MPR-720SLF	MPR720SLF	Wire shelf with clips (1 shelf, 4 clips)	1/ea
Double doors			
MPR-1412	MPR-1412-PA	48.2 cu. ft. - double swing doors, 8 wire shelves, 115 V	1/ea
MPR-1412R	MPR-1412R-PA	48 cu. ft. - double swing doors, 10 roll-out drawers, 115 V	1/ea
Accessories for model MPR-1412			
MPR1411SLF	MPR-1411SLF	Additional shelf kit	1/ea

Cold Storage

Refrigerators: General Laboratory

Thermo Scientific™ TSX Series High-Performance BioMedical Lab Refrigerators

THERMO FISHER SCIENTIFIC - Available in glass or solid door, high-performance refrigerators combine advanced temperature control with high-quality cabinet construction and alarm systems. Positive, forced-air circulation is designed to maintain temperature uniformity to protect important medical and pharmaceutical products as well as laboratory media, reagents and more.

- ENERGY STAR® and UL, cUL certified
- Factory pre-set to 5°C
- Temperature range 3°C to 7°C, auto defrost
- Forced-air circulation for temperature uniformity at all shelf levels
- Heat-free defrost for maximum temperature uniformity
- Quiet operation at just 52 dBA
- GMP Clean Room Class A / ISO 6 (ISO EN 14644-1) compatible with appropriate pre-install preparation
- Four 2 in. casters for easy mobility; the front two are lockable
- Bright, LED interior lighting
- Keyed on/off switch with easy to use, setpoint security
- Self-closing door with 90° stop to assist with inventory loads
- Glass door versions are standard with triple pane glass door



TSX2305GA

Cat. No.	Mfr. No.	Description	Qty.
TSX2305GA	TSX2305GA	23 cu. ft., glass door, 4 shelves, 115 V	1/ea
TSX2305GD	TSX2305GD	23 cu. ft., glass door, 4 shelves, 208–230 V	1/ea
TSX2305SA	TSX2305SA	23 cu. ft., solid door, 4 shelves, 115 V	1/ea
TSX2305SD	TSX2305SD	23 cu. ft., solid door, 4 shelves, 208–230 V	1/ea
TSX4505GA	TSX4505GA	45.8 cu. ft., double sliding glass, 8 shelves, 115 V	1/ea
TSX4505GD	TSX4505GD	45.8 cu. ft., double sliding glass, 8 shelves, 208–230 V	1/ea
TSX5005GA	TSX5005GA	51 cu. ft., 2 glass doors, 8 shelves, 115 V	1/ea
TSX5005GD	TSX5005GD	51 cu. ft., 2 glass doors, 8 shelves, 208–230 V	1/ea
TSX5005SA	TSX5005SA	51 cu. ft., 2 solid doors, 8 shelves, 115 V	1/ea
TSX5005SD	TSX5005SD	51 cu. ft., 2 solid doors, 8 shelves, 208–230 V	1/ea

Thermo Scientific™ TSG Series General Purpose Refrigerators

THERMO FISHER SCIENTIFIC - TSG Series General Purpose Refrigerators are designed with your laboratory in mind, combining the performance, security, and quality required for everyday laboratory applications.

- ENERGY STAR® and cULus certified
- Factory pre-set to 5°C
- Temperature range 2°C to 10°C
- Featuring a wide range of cabinet sizes from 12 cu. ft. to 72 cu. ft.
- Whisper-quiet operation at 51 dBA
- Adaptive defrost
- Glass (double pane) or solid door configurations
- Choice of white painted interior and exterior, or stainless steel interior and gray exterior
- LED interior lighting
- Temperature, door ajar, and power failure (with battery back-up) alarms
- Digital controller
- Low heat output
- Rear access port
- Keyed door lock(s)
- Remote alarm contacts



TSG12RPGA

Cat. No.	Mfr. No.	Description	Qty.
Exterior color - white/interior color - white			
TSG12RPGA	TSG12RPGA	12 cu. ft., glass door, 4 shelves, 115 V	1/ea
TSG25RPGA	TSG25RPGA	23 cu. ft., glass door, 4 shelves, 115 V	1/ea
TSG25RPSA	TSG25RPSA	23 cu. ft., solid door, 4 shelves, 115 V	1/ea
TSG30RPGA	TSG30RPGA	27 cu. ft., glass door, 4 shelves, 115 V	1/ea
TSG30RPSA	TSG30RPSA	27 cu. ft., solid door, 4 shelves, 115 V	1/ea
TSG45RPLA	TSG45RPLA	45 cu. ft., 2 slide glass door, 8 shelves, 115 V	1/ea
TSG49RPGA	TSG49RPGA	49 cu. ft., 2 glass doors, 8 shelves, 115 V	1/ea
TSG49RPSA	TSG49RPSA	49 cu. ft., 2 solid doors, 8 shelves, 115 V	1/ea
TSG72RPGA	TSG72RPGA	72 cu. ft., 3 glass doors, 12 shelves, 115 V	1/ea
Exterior color - gray/interior color - stainless steel			
TSG25RSGA	TSG25RSGA	23 cu. ft., glass door, 4 shelves, 115 V	1/ea
TSG25RSSA	TSG25RSSA	23 cu. ft., solid door, 4 shelves, 115 V	1/ea
TSG30RSGA	TSG30RSGA	27 cu. ft., glass door, 4 shelves, 115 V	1/ea
TSG30RSSA	TSG30RSSA	27 cu. ft., solid door, 4 shelves, 115 V	1/ea
TSG45RS LA	TSG45RS LA	45 cu. ft., 2 slide glass door, 8 shelves, 115 V	1/ea
TSG49RSGA	TSG49RSGA	49 cu. ft., 2 glass doors, 8 shelves, 115 V	1/ea
TSG49RSSA	TSG49RSSA	49 cu. ft., 2 solid doors, 8 shelves, 115 V	1/ea
TSG72RSGA	TSG72RSGA	72 cu. ft., 3 glass doors, 12 shelves, 115 V	1/ea

Cold Storage

Refrigerators: General Laboratory Undercounter

Premier Plus Series Lab Undercounter Refrigerators

CARDINAL HEALTH - Premier Plus high-performance undercounter refrigerators are designed for your lab environment. These undercounter refrigerators save energy, reduce noise and meet sustainability protocols.

- Solid State Cooling Technology adjusts cooling performance to the conditions
- Redundant cooling for extra sample security
- 50% more capacity to store more in less space
- ENERGY STAR® rated performance meaning lower operating costs
- SNAP compliant
- Quiet operation
- Sleek exterior design and touch screen
- Air and glycol temperature display
- Bright, easy-to-adjust interior LED lighting
- Choice of transparent glass or solid door
- Datalogging with USB download functionality
- Remote alarm contacts
- Audible and visual alarms
- Convenient, adjustable shelves
- 1 in. rear access port

ENERGY STAR® and cULus certified.



LEARN MORE AT
energystar.gov

Temperature range: +3°C to +7°C, auto defrost

Cat. No.	Cu. Ft.	Voltage (Hz)	Electrical Plug	Cabinet	Door	Shelves	Int. Dimensions* D x W x H in.	Ext. Dimensions* D x W x H in.	Ship Wt. lbs.
CA505GA	5.5	100–240 (50/60)	NEMA 5-15	Undercounter	Single, glass	3	20.5 x 19.5 x 23	26 x 23.6 x 31.8	144
CA505SA	5.5	100–240 (50/60)	NEMA 5-15	Undercounter	Single, solid	3	20.5 x 19.5 x 23	26 x 23.6 x 31.8	144

* Published interior volumes are nominal; useable cu. ft. capacities may be offset by shelves, drawers, blower coils, or cabinet protrusions. For specific cabinet dimensions and allowances, or for verification of clearance tolerances, contact our sales representatives. Product performance may be affected by ambient temperature conditions, humidity conditions, sample loading preferences, and frequency of door openings. Contact our sales representatives for specific inquiries regarding your application.

Pro Series Laboratory Undercounter Refrigerators

CARDINAL HEALTH - Pro Series Laboratory Undercounter Refrigerators powered by Solid State Cooling Technology, has been designed to meet the rigorous and demanding needs of healthcare, research and industrial applications where solid performance is required. Solid state refrigeration in place of traditional refrigeration methods allows you to maintain the most demanding storage conditions.

- Solid State Cooling Technology adjusts cooling performance to the conditions
- 50% more capacity to store more in less space
- ENERGY STAR® rated performance meaning lower operating costs
- SNAP compliant
- Quiet operation
- Increased capacities to store more in less space
- Full alarm set, including hi/lo temperature, door ajar and power fail to support requirements for medical storage
- Remote alarm contacts supporting requirements of research for monitoring

ENERGY STAR®, UL and CE certified.



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Temperature range: +2°C to +9°C, preset to +5°C, auto defrost

Cat. No.	Cu. Ft.	Voltage (Hz)	Electrical Plug	Door	Shelves	Int. Dimensions D x W x H in.	Ext. Dimensions D x W x H in.	Ship Wt. lbs.
CAG505GA	5.5	100–240 (50/60)	NEMA 5-15	Single, glass	3	19.5 x 20.5 x 23	26 x 23.6 x 32	145
CAG505SA	5.5	100–240 (50/60)	NEMA 5-15	Single, solid	3	19.5 x 20.5 x 23	26 x 23.6 x 32	128

Refrigerators: General Laboratory Undercounter

High Performance Biomedical Undercounter Refrigerator

PHC CORPORATION OF NORTH AMERICA* -

This undercounter refrigerator is developed for the critical storage of vaccine and biological materials. The freestanding or undercounter high performance laboratory refrigerator combines PHCbi brand compressors with stringent control processes to provide the highest quality laboratory refrigerator available. This space-saving lab refrigerator provides a versatile undercounter design, high performance optimized temperature control and LED display for alarms and diagnostic functions.



- Microprocessor control/alarm system
- Front airflow refrigeration compartment design requires no additional air space around the cabinet.
- Refrigerator includes an automatic defrost function
- One cabinet can be stacked on top of another to double storage volume, an optional stacking adapter is required.

Specifications:

Temperature range 1°C to 14°C (ambient temperature 26°C, no load)

Temperature uniformity ±3°C (ambient temperature: 26°C, no load)

Power requirements 115 V, 60 Hz, 0.9 A

Dimensions

Interior (W x D x H) 20.9 x 17.4 x 27.8 in.

Exterior (W x D x H) 23.6 x 25.7 x 34.6 in.

**Formerly known as Panasonic Healthcare Corporation of North America*

Cat. No.	Mfr. No.	Description	Qty.
SRL6111W	SR-L6111W-PA	5.7 cu. ft. with key lock	1/ea
SRF-L61PS	SRFL61PS	Stacking adapter	1/ea

High Performance Undercounter and Countertop Design Laboratory Refrigerator

PHC CORPORATION OF NORTH AMERICA* -

This refrigerator is designed for critical storage of vaccines, pharmaceuticals and lab materials. The cabinet is an ideal size for personal lab storage or for isolated storage of single specific or quarantined product. The unique refrigeration system maintains critical temperature of 5°C with uniformity of ±3°C.



Cabinet operation from 2°C to 8°C allows for ideal storage of pharmaceutical and lab materials without freezing. The refrigerator is UL471 commercially rated by Underwriters Laboratory.

The microprocessor controller with digital display and touchpad interface simplifies temperature and alarm programming. The control panel includes audible warnings and indicator lights for high and low temperature or door ajar alarms. The refrigeration system is powered by a quiet, air cooled compressor. Defrost is initiated automatically with compressor cycling.

Specifications:

Temperature range 2°C to 8°C

Shelves 2 adjustable powder coated wire with rear guard

Power requirements 115 V, 60 Hz

Dimensions

Interior (W x D x H) 15.7 x 10.3 x 17.3 in.

Exterior (W x D x H) 18.6 x 19.9 x 25 in.

**Formerly known as Panasonic Healthcare Corporation of North America*

Cat. No.	Mfr. No.	Description	Qty.
PRL2466WPA	PR-L2466W-PA	1.62 cu. ft. - 2 wire shelves	1/ea

Undercounter Laboratory Refrigerators

PHC CORPORATION OF NORTH AMERICA* - These undercounter laboratory refrigerators are specifically designed to optimize cold storage for a variety of laboratory applications. This model is ideal for the demanding standards of laboratory applications that need a precise and uniform temperature environment. This undercounter refrigerator provides a space saving design with minimal maintenance and cleaning.

- State-of-the-art compressor technology for temperature uniformity
- Easy maintenance with foamed in condenser design that reduces collection of dust particles on unit, minimizing cleaning time.

Specifications:

Temperature range 2°C to 14°C

Dimensions

Shelves 3 adjustable coated wire shelves

Interior (W x D x H) 18.6 x 15.2 x 29.5 in.

Power requirements 115 V, 60 Hz

Exterior (W x D x H) 21.4 x 22.8 x 33.8 in.

**Formerly known as Panasonic Healthcare Corporation of North America*

Cat. No.	Mfr. No.	Description	Qty.
PRL5111WPA	PR-L5111W-PA	4.9 cu. ft.	1/ea
5111WSECPA	PR-L5111WSEC-PA	4.9 cu. ft. with hasp lock	1/ea



Cold Storage

Refrigerators: General Laboratory Undercounter

Thermo Scientific™ TSX Series High-Performance Undercounter Lab Refrigerators

THERMO FISHER SCIENTIFIC - TSX Series High-Performance Undercounter Lab Refrigerators support sample protection and sustainability objectives for the storage of media, reagents, chemotherapy, pharmaceutical and other research and medical products. Powered by V-drive, the TSX Series delivers low energy, decreased noise levels and improved performance and user experience. These new undercounter refrigerators are quiet and feature an improved user interface, automated locking and increased storage capacity and reliability.

- U.S. Environmental Protection Agency SNAP (Significant New Alternatives Policy) compliant refrigerants
- Temperature range 3°C to 7°C, auto defrost
- Unique V-drive technology is designed to save energy without compromising the protection of stored products
- Quiet operation at just 35dbA (43 during pull down)
- Reduced energy consumption
- Sleek exterior design and touch screen
- Bright, easy-to-adjust interior LED lighting
- Touchscreen controller with password protection
- Datalogging with USB download functionality
- Battery backup
- Choice of reversible glass or solid door
- Air or glycol temperature display
- Automated locking
- 1 in. rear access port
- Remote alarm contacts
- Audible and visual alarms: power fail, high temp, low temp, low battery, memory full, door ajar
- ADA compliant



TSX505GA

Cat. No.	Mfr. No.	Description	Qty.
TSX505GA	TSX505GA	5.5 cu. ft., glass door, 3 shelves, 100–230 V, NEMA 5-15 plug	1/ea
TSX505GD	TSX505GD	5.5 cu. ft., glass door, 3 shelves, 100–230 V, NEMA 5-16 plug	1/ea
TSX505SA	TSX505SA	5.5 cu. ft., solid door, 3 shelves, 100–230 V, NEMA 5-15 plug	1/ea
TSX505SD	TSX505SD	5.5 cu. ft., solid door, 3 shelves, 100–230 V, NEMA 5-16 plug	1/ea

Thermo Scientific™ TSG Series Small Capacity Refrigerators

THERMO FISHER SCIENTIFIC - TSG Series Small Capacity Refrigerators are powered by Phononic™ solid state refrigeration technology. Designed to meet the rigorous and demanding needs of healthcare, research and industrial applications where solid performance is required.

- ENERGY STAR® rated performance meaning lower operating costs
- Solid state refrigeration technology
- Whisper quiet operation leading to a more comfortable work environment supporting clinical and healthcare needs
- Increased capacities due to fewer refrigeration components means you can store more in less space
- Green refrigerants supporting global initiatives to reduce greenhouse gas emissions
- Full alarm set, including hi/lo temperature, door ajar and power fail to support requirements for medical storage
- Remote alarm contacts on TSG505, supporting requirements of research for monitoring
- Datalogging and download capability on TSG205 via USB port to support clinical record management requirements



TSG505GA

Cat. No.	Mfr. No.	Description	Qty.
TSG205SA	TSG205SA	1.8 cu. ft. countertop, solid door, 3 shelves, 120 V, NEMA 5-15 plug	1/ea
TSG505GA	TSG505GA	5.5 cu. ft. undercounter, glass door, 3 shelves, 100–240 V, NEMA 5-15 plug	1/ea
TSG505GD	TSG505GD	5.5 cu. ft. undercounter, glass door, 3 shelves, 100–240 V, NEMA 5-16 plug	1/ea
TSG505SA	TSG505SA	5.5 cu. ft. undercounter, solid door, 3 shelves, 100–240 V, NEMA 5-15 plug	1/ea
TSG505SD	TSG505SD	5.5 cu. ft. undercounter, solid door, 3 shelves, 100–240 V, NEMA 5-16 plug	1/ea



Premier Plus Series Blood Bank Refrigerators

CARDINAL HEALTH Premier Plus high-performance blood bank refrigerators are designed to meet strict requirements established by the AABB for the storage of whole blood and blood components.

- Variable Speed Compressor Technology adjusts cooling performance to the conditions
- SNAP compliant
- Factory pre-set to 4°C to meet blood storage guidelines
- Forced-air circulation for temperature uniformity and fast temperature recovery
- Heat-free defrost for maximum temperature uniformity
- Convenient, stainless steel, fully extendable and adjustable drawers
- Standard, built-in chart recorder
- Quiet operation
- Four 2 in. casters for easy mobility; the front two are lockable
- Bright, LED interior lighting
- Keyed on/off switch with easy to use, setpoint security
- Self-closing door with 90° stop to assist with inventory loads
- FDA listed Class II Medical Device, 510K exempt

ENERGY STAR®, UL and cUL certified.



CAX3004BA

Temperature range: +3°C to +7°C, factory pre-set to +4°C, auto defrost

Cat. No.	Cu. Ft. (Bag capacity**)	Voltage (Hz)	Electrical Plug	Cabinet	Door	Drawers	Int. Dimensions*		Ext. Dimensions* D x W x H in.	Ship Wt. lbs.
							D x W x H in.	D x W x H in.		
CAX1204BA	11.5 (192)	115 (60)	NEMA 5-15	Space saver	Single, glass	6	21.8 x 20 x 52.4	30.5 x 24 x 73	404	
CAX1204BD	11.5 (192)	208–230 (60)	NEMA 6-15	Space saver	Single, glass	6	21.8 x 20 x 52.4	30.5 x 24 x 73	404	
CAX2304BA	23 (385)	115 (60)	NEMA 5-15	Upright	Single, glass	7	28.5 x 24 x 58	37.8 x 28 x 78.5	550	
CAX2304BD	23 (385)	208–230 (60)	NEMA 6-15	Upright	Single, glass	7	28.5 x 24 x 58	37.8 x 28 x 78.5	529	
CAX3004BA	29.2 (426)	115 (60)	NEMA 5-15	Upright	Single, glass	6	28.5 x 30 x 58	37.3 x 34 x 78.5	554	
CAX3004BD	29.2 (426)	208–230 (60)	NEMA 6-15	Upright	Single, glass	6	28.5 x 30 x 58	37.3 x 34 x 78.5	554	
CAX5004BA	51.1 (770)	115 (60)	NEMA 5-15	Upright	Double, glass	14	28.5 x 52.5 x 58	37.8 x 56.5 x 78.5	865	
CAX5004BD	51.1 (770)	208–230 (60)	NEMA 6-15	Upright	Double, glass	14	28.5 x 52.5 x 58	37.8 x 56.5 x 78.5	865	

* Published interior volumes are nominal; useable cu. ft. capacities may be offset by shelves, drawers, blower coils, or cabinet protrusions. For specific cabinet dimensions and allowances, or for verification of clearance tolerances, contact our sales representative. Product performance may be affected by ambient temperature conditions, humidity conditions, sample loading preferences, and frequency of door openings. Contact our sales representative for specific inquiries regarding your application.

** Nominal capacity based on 450 mL whole blood bags.

Premier Series Blood Bank Refrigerator

Temperature range: +3°C to +7°C, factory pre-set to +4°C, auto defrost

Cat. No.	Cu. Ft. (Bag capacity**)	Voltage (Hz)	Electrical Plug		Cabinet	Door	Drawers	Int. Dimensions*		Ext. Dimensions* D x W x H in.	Ship Wt. lbs.
			Cabinet	Door				D x W x H in.	D x W x H in.		
R3863-4A	4.9 (64)	115 (60)	NEMA 5-15	Undercounter	Single, solid	2	20.5 x 20 x 20	26 x 24 x 33.4	220		

* Published interior volumes are nominal; useable cu. ft. capacities may be offset by shelves, drawers, blower coils, or cabinet protrusions. For specific cabinet dimensions and allowances, or for verification of clearance tolerances, contact our sales representative. Product performance may be affected by ambient temperature conditions, humidity conditions, sample loading preferences, and frequency of door openings. Contact our sales representative for specific inquiries regarding your application.

** Nominal capacity based on 450 mL whole blood bags.

Cold Storage

Refrigerators: Blood Bank

Thermo Scientific™ TSX Series High-Performance Blood Bank Refrigerators

THERMO FISHER SCIENTIFIC - High-performance blood bank refrigerators are designed to meet strict requirements established by the AABB for the storage of whole blood and blood components.

- ENERGY STAR® certified
- FDA and UL, cUL certified
- Factory pre-set to 4°C to meet blood storage guidelines
- Temperature range 3°C to 7°C, auto defrost
- Triple pane glass door helps maintain optimal internal condition
- Forced-air circulation for temperature uniformity and fast temperature recovery
- Heat-free defrost for maximum temperature uniformity
- Convenient, stainless steel, fully extendable and adjustable drawers
- Standard, built-in chart recorder
- Quiet operation at just 52 dBA
- GMP Clean Room Class A / ISO 6 (ISO EN 14644-1) compatible with appropriate pre-install preparation
- Four 2 in. casters for easy mobility; the front two are lockable
- Bright, LED interior lighting
- Keyed on/off switch with easy to use, setpoint security
- Self-closing door with 90° stop to assist with inventory loads



TSX2304BA

Cat. No.	Mfr. No.	Description	Qty.
TSX2304BA	TSX2304BA	23 cu. ft., glass door, 7 drawers, 115 V	1/ea
TSX2304BD	TSX2304BD	23 cu. ft., glass door, 7 drawers, 208–230 V	1/ea
TSX5004BA	TSX5004BA	51 cu. ft., 2 glass doors, 14 drawers, 115 V	1/ea
TSX5004BD	TSX5004BD	51 cu. ft., 2 glass doors, 14 drawers, 208–230 V	1/ea



Refrigerators: Chromatography

Premier Plus Series Chromatography Refrigerators

CARDINAL HEALTH Premier Plus high-performance chromatography refrigerators are designed for a variety of applications requiring close temperature control, full access to chromatography instrumentation and easy set-up of instrumentation and apparatus within the chamber.



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- Variable Speed Compressor Technology adjusts cooling performance to the conditions
- SNAP compliant
- Forced-air circulation for temperature uniformity at all shelf levels
- Heat-free defrost for maximum temperature uniformity
- Quiet operation at just 52 dBA
- Two 2 in. side wall access ports with insulated hinged covers
- Four 2 in. casters for easy mobility; the front two are lockable
- Bright, LED interior lighting
- Keyed on/off switch with easy to use, set-point security
- Self-closing door with 90° stop to assist with inventory loads
- Triple pane glass doors standard on all models
- Safety switch protected internal electrical outlet on all models

ENERGY STAR®, UL and cUL certified.



CAX3005CA

Temperature range: +3°C to +7°C, factory pre-set to +5°C, auto defrost

Cat. No.	Cu. Ft.	Voltage (Hz)	Electrical Plug	Cabinet	Door	Shelves full (half)	Int. Dimensions*	Ext. Dimensions*	Ship Wt. Ibs.
CAX2305CA	23	115 (60)	NEMA 5-15	Upright	Single, glass	0 (2)	28.5 x 24 x 58	37.8 x 28 x 78.5	439
CAX2305CD	23	208–230 (60)	NEMA 6-15	Upright	Single, glass	0 (2)	28.5 x 24 x 58	37.8 x 28 x 78.5	418
CAX3005CA	29.2	115 (60)	NEMA 5-15	Upright	Single, glass	0 (2)	28.5 x 30 x 58	37.3 x 34 x 78.5	442
CAX3005CD	29.2	208–230 (60)	NEMA 6-15	Upright	Single, glass	0 (2)	28.5 x 30 x 58	37.3 x 34 x 78.5	442
CAX4505CA	45.8	115 (60)	NEMA 5-15	Upright	Double, sliding glass	4 (2)	26 x 52.5 x 58	36.6 x 56.5 x 78.5	600
CAX4505CD	45.8	208–230 (60)	NEMA 6-15	Upright	Double, sliding glass	4 (2)	26 x 52.5 x 58	36.6 x 56.5 x 78.5	600
CAX5005CA	51.1	115 (60)	NEMA 5-15	Upright	Double, glass	4 (2)	28.5 x 52.5 x 58	37.8 x 56.5 x 78.5	658
CAX5005CD	51.1	208–230 (60)	NEMA 6-15	Upright	Double, glass	4 (2)	28.5 x 52.5 x 58	37.8 x 56.5 x 78.5	658

* Published interior volumes are nominal; useable cu. ft. capacities may be offset by shelves, drawers, blower coils, or cabinet protrusions. For specific cabinet dimensions and allowances, or for verification of clearance tolerances, contact our sales representative. Product performance may be affected by ambient temperature conditions, humidity conditions, sample loading preferences, and frequency of door openings. Contact our sales representative for specific inquiries regarding your application.

Cold Storage

Refrigerators: Chromatography

Pro Series Chromatography Refrigerators

CARDINAL HEALTH - Pro Series Chromatography Refrigerators are designed with your chromatography applications in mind.

- SNAP compliant
- Hydrocarbon safety sensor protected interior duplex outlet
- Quiet operation
- Adaptive defrost
- Double pane glass doors
- Choice of white painted interior and exterior, or stainless steel interior and gray exterior
- LED interior lighting
- Temperature, door ajar and power failure (with battery back-up) alarms
- Digital controller
- Low heat output
- Rear access port, plus two 2 in. side access ports
- Keyed door lock(s)
- Remote alarm contacts

ENERGY STAR® and cULus certified.



Temperature range: +2°C to +10°C, preset to +5°C, adaptive defrost

Cat. No.	Cu. Ft.	Voltage (Hz)	Electrical Plug*	Door	Finish Interior/Exterior	Shelves full (half)	Int. Dimensions D x W x H in.	Ext. Dimensions D x W x H in.	Ship Wt. lbs.
CHG30CPGA	27	115 (60)	NEMA 5-15 (2)	Single, glass	Painted white/white	4 (3)	28.5 x 27 x 61.75	32 x 30.75 x 81	386
CHG30CSGA	27	115 (60)	NEMA 5-15 (2)	Single, glass	Stainless steel/gray	4 (3)	28.5 x 27 x 61.75	32 x 30.75 x 81	386
CHG45CPLA	45	115 (60)	NEMA 5-15 (2)	Double slide, glass	Painted white/white	8 (2)	28.5 x 49 x 61.75	32 x 52.7 x 81	561
CHG45CSLA	45	115 (60)	NEMA 5-15 (2)	Double slide, glass	Stainless steel/gray	8 (2)	28.5 x 49 x 61.75	32 x 52.7 x 81	561
CHG49CPGA	49	115 (60)	NEMA 5-15 (2)	Double, glass	Painted white/white	8 (2)	28.5 x 49 x 61.75	32 x 52.7 x 81	597
CHG49CSGA	49	115 (60)	NEMA 5-15 (2)	Double, glass	Stainless steel/gray	8 (2)	28.5 x 49 x 61.75	32 x 52.7 x 81	597
CHG72CPGA	72	115 (60)	NEMA 5-15 (2)	Triple, glass	Painted white/white	12 (2)	28.5 x 72 x 61.75	32 x 75.7 x 81	733
CHG72CSGA	72	115 (60)	NEMA 5-15 (2)	Triple, glass	Stainless steel/gray	12 (2)	28.5 x 72 x 61.75	32 x 75.7 x 81	733

*Chromatography Refrigerators are supplied with two power cords (one for the unit and one for the internal receptacle and Hydrocarbon Safety Sensor)

Thermo Scientific™ TSX Series High Performance Chromatography Refrigerators

THERMO FISHER SCIENTIFIC - TSX High-Performance Chromatography Refrigerators are designed for a variety of applications requiring close temperature control, full access to chromatography instrumentation, and easy set-up of instrumentation and apparatus within the chamber. The TSX Chromatography series features industry-leading safety features to ensure maximum protection.

- ENERGY STAR® certified and SNAP compliant
- UL and cUL certified
- Factory pre-set to 5°C
- Temperature range 3°C to 7°C, auto defrost
- Forced-air circulation for temperature uniformity at all shelf levels
- Heat-free defrost for maximum temperature uniformity
- Quiet operation at just 52 dBA
- Two 2 in. (5 cm) side wall access ports with insulated hinged covers
- GMP Clean Room Class A / ISO 6 (ISO EN 14644-1) compatible with appropriate pre-install preparation
- Four 2 in. casters for easy mobility; the front two are lockable
- Bright, LED interior lighting
- Keyed on/off switch with easy to use, set-point security
- Self-closing door with 90° stop to assist with inventory loads
- Triple pane glass doors standard on all models
- Safety switch protected internal electrical outlet on all models (Duplex outlet on A and D models, single outlet on V models)



TSX4505CA

Cat. No.	Mfr. No.	Description	Qty.
TSX2305CA	TSX2305CA	23 cu. ft., glass door, 0 full 2 half shelves, 115 V	1/ea
TSX2305CD	TSX2305CD	23 cu. ft., glass door, 0 full 2 half shelves, 208–230 V	1/ea
TSX4505CA	TSX4505CA	45.8 cu. ft., double sliding glass, 4 full 2 half shelves, 115 V	1/ea
TSX4505CD	TSX4505CD	45.8 cu. ft., double sliding glass, 4 full 2 half shelves, 208–230 V	1/ea
TSX5005CA	TSX5005CA	51.1 cu. ft., 2 glass doors, 4 full 2 half shelves, 115 V	1/ea
TSX5005CD	TSX5005CD	51.1 cu. ft., 2 glass doors, 4 full 2 half shelves, 208–230 V	1/ea

Cold Storage

Refrigerators: Chromatography

Thermo Scientific™ TSG Series Chromatography Refrigerators

THERMO FISHER SCIENTIFIC - The TSG Series is ideal for the demanding requirements of daily use in research, clinical, and industrial laboratories storing non-critical products such as reagents, media, proteins, and other samples requiring a 2°C to 10°C controlled environment.

- ENERGY STAR® and cULus certified
- Factory pre-set to 5°C
- Temperature range 2°C to 10°C
- Featuring a wide range of cabinet sizes from 30 cu. ft. to 72 cu. ft.
- Hydrocarbon safety sensor protected interior duplex outlet
- Whisper-quiet operation at 51 dBA
- Adaptive defrost
- Double pane glass doors
- Choice of white painted interior and exterior, or stainless steel interior and gray exterior
- LED interior lighting
- Temperature, door ajar, and power failure (with battery back-up) alarms
- Digital controller
- Low heat output
- Rear access port, plus two 2 in. side access ports
- Keyed door lock(s)
- Remote alarm contacts



TSG30CPGA

Cat. No.	Mfr. No.	Description	Qty.
Exterior color - white/interior color - white			
TSG30CPGA	TSG30CPGA	27 cu. ft., glass door, 4 full 3 half shelves, 115 V	1/ea
TSG45CPLA	TSG45CPLA	45 cu. ft., 2 slide glass door, 8 full 2 half shelves, 115 V	1/ea
TSG49CPGA	TSG49CPGA	49 cu. ft., 2 glass doors, 8 full 2 half shelves, 115 V	1/ea
TSG72CPGA	TSG72CPGA	72 cu. ft., 3 glass doors, 12 full 2 half shelves, 115 V	1/ea
Exterior color - gray/interior color - stainless steel			
TSG30CSGA	TSG30CSGA	27 cu. ft., glass door, 4 full 3 half shelves, 115 V	1/ea
TSG45CSLA	TSG45CSLA	45 cu. ft., 2 slide glass door, 8 full 2 half shelves, 115 V	1/ea
TSG49CSGA	TSG49CSGA	49 cu. ft., 2 glass doors, 8 full 2 half shelves, 115 V	1/ea
TSG72CSGA	TSG72CSGA	72 cu. ft., 3 glass doors, 12 full 2 half shelves, 115 V	1/ea



Premier Plus Series Pharmacy Refrigerators

CARDINAL HEALTH - Premier Plus high-performance pharmacy refrigerators feature adjustable basket drawers and glass doors for the easy identification and access of vaccines, pharmaceuticals, chemotherapeutics and other material requiring 2°C to 8°C storage.

- Variable Speed Compressor Technology adjusts cooling performance to the conditions
- SNAP compliant
- Triple panel glass door helps maintain optimal internal conditions
- Forced-air circulation for temperature uniformity and fast temperature recovery
- Heat-free defrost for maximum temperature uniformity
- Convenient, fully extendable and adjustable basket drawers
- Quiet operation
- Four 2 in. casters for easy mobility; the front two are lockable
- Bright, LED interior lighting
- Keyed on/off switch with easy to use, setpoint security
- Self-closing door with 90° stop to assist with inventory loads
- Built-in remote alarm contacts

ENERGY STAR®, UL and cUL certified.



CAX3005PA

Temperature range: +3°C to +7°C, factory pre-set to +5°C, auto defrost

Cat. No.	Cu. Ft.	Voltage (Hz)	Electrical		Cabinet	Door	Baskets	Int. Dimensions*		Ext. Dimensions*		Ship Wt. lbs.
			Plug	Cabinet				D x W x H in.	D x W x H in.			
CAX1205PA	11.5	115 (60)	NEMA 5-15	Space saver	Single, glass	5	21.8 x 20 x 52.4	30.5 x 24 x 73		388		
CAX1205PD	11.5	208-230 (60)	NEMA 6-15	Space saver	Single, glass	5	21.8 x 20 x 52.4	30.5 x 24 x 73		388		
CAX2305PA	23	115 (60)	NEMA 5-15	Upright	Single, glass	6	28.5 x 24 x 58	37.8 x 28 x 78.5		531		
CAX2305PD	23	208-230 (60)	NEMA 6-15	Upright	Single, glass	6	28.5 x 24 x 58	37.8 x 28 x 78.5		510		
CAX3005PA	29.2	115 (60)	NEMA 5-15	Upright	Single, glass	6	28.5 x 30 x 58	37.3 x 34 x 78.5		541		
CAX3005PD	29.2	208-230 (60)	NEMA 6-15	Upright	Single, glass	6	28.5 x 30 x 58	37.3 x 34 x 78.5		541		
CAX5005PA	51.1	115 (60)	NEMA 5-15	Upright	Double, glass	12	28.5 x 52.5 x 58	37.8 x 56.5 x 78.5		830		
CAX5005PD	51.1	208-230 (60)	NEMA 6-15	Upright	Double, glass	12	28.5 x 52.5 x 58	37.8 x 56.5 x 78.5		830		

* Published interior volumes are nominal; useable cu. ft. capacities may be offset by shelves, drawers, blower coils, or cabinet protrusions. For specific cabinet dimensions and allowances, or for verification of clearance tolerances, contact our sales representative. Product performance may be affected by ambient temperature conditions, humidity conditions, sample loading preferences, and frequency of door openings. Contact our sales representative for specific inquiries regarding your application

Cold Storage

Refrigerators: Pharmacy

Premier Laboratory and Pharmacy Refrigerators

NOR-LAKE SCIENTIFIC - Heavy-duty design with one or two doors, in either solid or glass. Automatic defrost and digital LED microprocessor control with audible/visual high/low alarms with remote alarm contacts. White exterior front, sides and back. Exterior top and bottom are galvanized steel. White interior with three epoxy-coated shelves per door, which can be adjusted in 1 in. increments.

Refrigerator cabinet is formed-in-place with high-density polyurethane foam insulation. Doors have heavy-duty pivot hinges and pull handles with centered key locks and self-adjusting magnetic gaskets. Top-mounted refrigeration, air-cooled condensing unit, automatic condensate evaporation and door-opening heaters (glass door models). Four casters (two locking) on one- and two-door models. Available with optional chart recorder, up to eight stainless steel drawers, up to six wire basket drawers, internal electrical outlet, lead access ports, stainless steel interior and exterior and extra shelves. UL/CUL listed. Warranties: 18-month parts and labor, 5-year compressor (US and Canada).

Specifications:

Temperature range 2°C to 10°C factory preset at 4°C

Power requirement 115 V, 60 Hz

PR241WWG0 and PR241WWW0

Shelf area 12.8 sq. ft.

Interior dimensions (H x W x D) 59 x 23½ x 30 in.

Exterior dimensions (H x W x D) 79¾ x 27½ x 35½ in.

PR331WWG0 and PR331WWW0

Shelf area 15.8 sq. ft.

Interior dimensions (H x W x D) 67 x 27¾ x 31 in.

Exterior dimensions (H x W x D) 87½ x 31¾ x 36½ in.

PR522WWG0 and PR522WWW0

Shelf area 28.6 sq. ft.

Interior dimensions (H x W x D) 59 x 51 x 30 in.

Exterior dimensions (H x W x D) 79¾ x 55 x 35½ in.



PR241WWW0

Cat. No.	Mfr. No.	Description	Qty.
Glass doors			
PR241WWG0	NSPR241WWG/0	24 cu. ft. - 1 door	1/ea
PR331WWG0	NSPR331WWG/0	33 cu. ft. - 1 door	1/ea
Solid doors			
PR241WWW0	NSPR241WWW/0	24 cu. ft. - 1 door	1/ea
PR331WWW0	NSPR331WWW/0	33 cu. ft. - 1 door	1/ea
PR522WWW0	NSPR522WWW/0	52 cu. ft. - 2 doors	1/ea



MPR-514



MPR-514R

Pharmaceutical Refrigerators

PHC CORPORATION OF NORTH AMERICA* - The ENERGY STAR® certified pharmacy refrigerator offers an integrated solution for precise storage temperatures necessary for pharmaceuticals, medicines, vaccines and other temperature sensitive biologicals. The slim front-to-back design and optional sliding shelves allow for ergonomic retrieval of your product while fitting seamlessly into your facility.

- Temperature uniformity with fan-forced air circulation
- Validated storage: plenum design allows for uniform airflow distribution to ensure temperature uniformity
- Defrosting is performed automatically during compressor "off" cycles by sensing frost levels
- Microprocessor controller for comprehensive setpoint, alarm, monitoring and diagnostic functions

Specifications:

Temperature range 2°C to 14°C

Power requirement 115 V, 60 Hz, NEMA 5-15P plug

MPR-514/MPR-514R

Interior dimensions (W x D x H) 31.5 x 18.3 x 51.2 in.

External dimensions (W x D x H) 35.4 x 23.6 x 70.5 in.

MPR-1014

Interior dimensions (W x D x H) 66.9 x 18.3 x 51.2 in.

External dimensions (W x D x H) 71 x 23.6 x 70.5 in.

*Formerly known as Panasonic Healthcare Corporation of North America

Cat. No.	Mfr. No.	Description	Qty.
MPR-514	MPR-514-PA	17.3 cu. ft. - 5 wire shelves	1/ea
MPR-514R	MPR-514R-PA	17.2 cu. ft. - 5 wire shelves, 5 sliding racks	1/ea
MPR-1014	MPR-1014-PA	36.5 cu. ft. - 10 wire shelves	1/ea
MPR-1014R	MPR-1014R-PA	36.3 cu. ft. - 5 wire shelves, 10 sliding racks	1/ea
Accessories			
MPR-513SLF	MPR-513SLF	Wire shelf with clips MPR-514	1/ea

Cold Storage

Refrigerators: Pharmacy

Thermo Scientific™ TSX Series High-Performance Pharmacy Refrigerators

THERMO FISHER SCIENTIFIC - High-performance pharmacy refrigerators feature adjustable basket drawers and glass doors for the easy identification and access of vaccines, pharmaceuticals, chemotherapeutics and other material requiring 2°C to 8°C storage.

- ENERGY STAR® certified and SNAP compliant
- UL and cUL certified
- Factory pre-set to 5°C
- Temperature range 3°C to 7°C, auto defrost
- Triple panel glass door helps maintain optimal internal conditions
- Forced-air circulation for temperature uniformity and fast temperature recovery
- Heat-free defrost for maximum temperature uniformity
- Convenient, fully extendable and adjustable basket drawers
- Quiet operation at just 52 dBA
- GMP Clean Room Class A / ISO 6 (ISO EN 14644-1) compatible with appropriate pre-install preparation
- Four 2 in. casters for easy mobility; the front two are lockable
- Bright, LED interior lighting
- Keyed on/off switch with easy to use, setpoint security
- Self-closing door with 90° stop to assist with inventory loads
- NEW ergonomic handle with soft touch grip
- Built-in remote alarm contacts



TSX2305PA

Cat. No.	Mfr. No.	Description	Qty.
TSX2305PA	TSX2305PA	23 cu. ft., glass door, 6 basket drawers, 115 V	1/ea
TSX2305PD	TSX2305PD	23 cu. ft., glass door, 6 basket drawers, 208–230 V	1/ea
TSX5005PA	TSX5005PA	51 cu. ft., 2 glass doors, 12 basket drawers, 115 V	1/ea
TSX5005PD	TSX5005PD	51 cu. ft., 2 glass doors, 12 basket drawers, 208–230 V	1/ea



General-Purpose Laboratory Refrigerator Upright Auto Defrost

NOR-LAKE SCIENTIFIC - This auto forced-air defrost model's standard shelving includes two adjustable wire shelves, five full-width fixed door bins, two fixed wire shelves and a bottom shelf. The unit offers an interior light, two adjustable leg levelers and automatic door closers.

Features a white interior, exterior, door and handle. Operating temperature +4°C with adjustable temperature control. The cabinet is foamed-in-place with CFC-free high-density polyurethane foam insulation. Units come with a 12-month parts warranty.

Specifications:

Interior dimensions (H x W x D) 52 x 27½ x 21½ in.

Exterior dimensions (H x W x D) 64½ x 32 x 28½ in.

Power requirements 115 V, 1 PH, 60 Hz

Cat. No.	Mfr. No.	Description	Qty.
LR161WWW0	LR161WWW/0	16.7 cu. ft. refrigerator	1/ea



Thermo Scientific™ Explosion-Proof Refrigerators

THERMO FISHER SCIENTIFIC - Prevent the triggering of an explosion inside or outside the unit with Thermo Scientific™ Explosion-Proof Refrigerators, suitable for use in Class I, Division I Group C and D hazardous environments. Thermostat and compressor components are isolated within a vapor-proof enclosure and electrical connections are hardwired to prevent sparking and accidental disconnection.

- Temperature range: 1°C to 12°C
- Hydraulic thermostat
- Manual defrost
- Magnetic vinyl gaskets for positive door seal
- CFC-free insulation and refrigerant

Cat. No.	Mfr. No.	Description	Qty.
20ERCETSA*	20ERCETSA	20.9 cu. ft. refrigerator, 4 fixed shelves, 115 V	1/ea
20EREETSA	20EREETSA	20.9 cu. ft. refrigerator, 4 fixed shelves, 6 fixed door shelves, 115 V	1/ea

*Corrosion-resistant model, features stainless steel interior door and stainless steel shelves

Cold Storage

Refrigerators: General-Purpose

Cold Storage



20FREETSA

Thermo Scientific™ Flammable-Material Storage Refrigerators

THERMO FISHER SCIENTIFIC - Designed to be used for the storage of volatiles, compounds and solvents where a spark-free internal cabinet environment is required. These units are engineered with no internal electrical components that could trigger an explosion and meet OSHA and National Fire Protection Association safety requirements.

- Temperature range: 1°C to 12°C
- Manual defrost
- Hydraulic thermostat on exterior to eliminate interaction with stored materials
- Aluminum evaporator coil
- Magnetic vinyl gaskets for positive door seal
- CFC-free insulation and coolant

Cat. No.	Mfr. No.	Description	Qty.
20FRCETSA	20FRCETSA*	20.9 cu. ft. refrigerator, 4 fixed shelves, 115 V	1/ea
20FREETSA	20FREETSA	20.9 cu. ft. refrigerator, 4 fixed shelves, 6 door shelves, 115 V	1/ea

*Corrosion-resistant model, features stainless steel interior door and stainless steel shelves



20LREETSA

Thermo Scientific™ Value Lab Refrigerators

THERMO FISHER SCIENTIFIC - Value laboratory refrigerators are particularly suited for routine laboratory applications.

- Temperature range: 1°C to 12°C
- Environmentally friendly, CFC-free insulation and coolant
- Easy-to-clean, durable finish
- Manual defrost

Cat. No.	Mfr. No.	Description	Qty.
5LRAETSA	05LREETSA	5.5 cu. ft. refrigerator, 3 adjustable shelves, storage on bottom, 115 V	1/ea
20LREETSA	20LREETSA	20.3 cu. ft. refrigerator, 4 fixed interior shelves, 6 door shelves, 115 V	1/ea

Refrigerators/Freezers and Combinations: General-Purpose

Select Series Laboratory Refrigerators and Freezers

CARDINAL HEALTH - Select Series Laboratory Refrigerators, Freezers and combination units provide an economical solution for safe sample storage. This range of models is particularly suited for routine laboratory applications with sizes from small benchtop to full-height freestanding.

- Factory tested prior to shipment
- NRTL listed
- Non CFC refrigerants
- Adjustable temperature control
- Easy-to-clean, durable finish
- Manual and auto defrost combination units
- Manual defrost refrigerators and freezers

CSA or UL certified.



CH10LCEECA



CH05LREECA

Refrigerators - Temperature range: 1°C to 12°C

Cat. No.	Cu. Ft.	Defrost	Voltage (Hz)	Shelves (Interior)	Int. Dimensions D x W x H in.	Ext. Dimensions D x W x H in.	Ship Wt. lbs.
CH05LREECA*	5.5	Manual	115 (60)	3 adjustable	17.5 x 20 x 27.75	23.5 x 23.63 x 33.5	100
CH17LREECA	17.7	Manual	115 (60)	4 fixed, 5 door	22 x 27.8 x 57.3	28.5 x 34 x 67.7	190
CH20LREECA	20.3	Manual	115 (60)	4 fixed, 6 door	23.8 x 27.8 x 57.8	32.13 x 34 x 73.13	283

*Key lock available

Freezers - Temperature range: -12°C to -24°C on CH05LFEECA, -12°C to -20°C on CH20LFEECA

Cat. No.	Cu. Ft.	Defrost	Voltage (Hz)	Shelves (Interior)	Int. Dimensions D x W x H in.	Ext. Dimensions D x W x H in.	Ship Wt. lbs.
CH05LFEECA	5	Manual	115 (60)	2 fixed, 3 door	19 x 18.63 x 29.5	25.75 x 21.38 x 33.13	95
CH20LFEECA*	20.9	Manual	115 (60)	4 fixed, 6 door	23.8 x 27.8 x 57.8	32.13 x 34 x 73.13	198

*Key lock available

Combination Ref./Frz. - Temp. range 1°C to 12°C ref., -12°C to -20°C frz., 0°C to 8°C ref., -6°C to -20°C frz. on CH18LCEECA

Cat. No.	Cu. Ft.	Defrost	Voltage (Hz)	Shelves (Interior)	Drawers	Int. Dimensions D x W x H in.	Ext. Dimensions D x W x H in.	Ship Wt. lbs.
CH05LCEECA*	5.6	Manual	115 (60)	2 adjustable, 3 door	1	17 x 20.5 x 19.5 (ref) 11.5 x 19 x 5 (frz)	23.5 x 23.63 x 33.5	120
CH10LCEECA	10.1	Manual	115 (60)	3 adjustable, 1 fixed, 4 door	1	18.25 x 19.75 x 38.25 (ref) 18.25 x 18 x 11.25 (frz)	24 x 23.63 x 59.75	150
CH18LCEECA	18	Automatic	115 (60)	Ref: 2 adjustable, 1 fixed, 3 door Frz: 1 adjustable, 2 door	2	24.75 x 26 x 39.75 (ref) 21 x 26 x 15.5 (frz)	30.13 x 30 x 66.63	205

*Key lock available

Cold Storage

Refrigerators/Freezers and Combinations: General-Purpose

General-Purpose Laboratory Refrigerator/Freezer Upright Auto Defrost

NOR-LAKE SCIENTIFIC - This auto, forced air defrost model's standard shelving and storage for the refrigerator includes three adjustable sliding full-width shelves, three independent removable clear plastic drawer storage bins, three full-width fixed door bins and one-door storage bin with removable hinged clear plastic cover. Standard shelving and storage for the freezer two full-width door storage bins and one adjustable shelf.

The unit offers an interior light, two adjustable leg levelers and automatic door closers. Feature a white interior, exterior, door and handle. Operating temperature +4°C refrigerator, -10°C freezer with adjustable temperature control independent for refrigerator and freezer. The cabinet is foamed-in-place with CFC-free high-density polyurethane foam insulation. Units come with a 12-month parts warranty.



Specifications:

Refrigerator compartment (H x W x D)

Interior dimensions 39½ x 26 x 26½ in.

Exterior dimensions 68 x 30 x 34 in.

Freezer compartment (H x W x D)

Interior dimensions 17¼ x 24 x 22 in.

Cat. No.	Mfr. No.	Description	Qty.
LRF201WWW0	LRF201WWW/0	20.5 cu. ft.	1/ea

Thermo Scientific™ Value Lab Combination Refrigerator/Freezers

THERMO FISHER SCIENTIFIC - Chill, freeze and retrieve samples safely, simply and economically with the Value Lab Refrigerator/Freezer.

- Temperature range: (5LCEETSA) 1°C to 12°C ref, -12°C to -20°C frz
- Temperature range: (25LCEETSA) 1°C to 12°C ref, -14°C to -25°C frz
- Environmentally-friendly, non CFC refrigerants
- Adjustable temperature control
- Easy to clean, durable finish
- Manual and auto defrost combination units



Cat. No.	Mfr. No.	Description	Qty.
5LCEETSA	05LCEETSA	5.6 cu. ft. refrigerator/freezer, 2 adj. shelves, 1 drawer, 3 door shelves, 115 V	1/ea
25LCEETSA	25LCEETSA	22 cu. ft. refrigerator/freezer, ref: 3 shelves, 5 door bins, 2 storage bins; frz: 2 wire baskets, 115 V	1/ea

Refrigerators/Freezers and Combinations: Flammable Material

Select Series Flammable Material Laboratory Refrigerators and Freezers

CARDINAL HEALTH - Flammable storage refrigerators, freezers and combination units are designed to be used for storage of volatiles where a spark-free internal cabinet environment is required. A range of models particularly suited for storage of flammable materials with sizes from small undercounter to full height freestanding.

- Spark-free interiors to reduce risk of internal explosion
- All units are manual defrost
- Tough white exterior
- CFC- and HCFC-free refrigeration system and insulation
- Designed to meet NFPA 45 and 99 along with OSHA article 1910.307

CSA or UL certified.



CH20FREECA

Refrigerators - Temperature range: 1°C to 12°C

Cat. No.	Cu. Ft.	Defrost	Voltage (Hz)	Shelves (Interior)	Int. Dimensions D x W x H in.	Ext. Dimensions D x W x H in.	Ship Wt. lbs.
CH05FREECA*	5.5	Manual	115 (60)	3 adjustable	17.5 x 20 x 27.75	28.1 x 23.63 x 33.5	120
CH20FREECA*	20.9	Manual	115 (60)	4 fixed, 6 door	23.8 x 27.8 x 57.8	35.81 x 34 x 73.13	198

*Key lock available

Freezers - Temperature range: -12°C to -20°C

Cat. No.	Cu. Ft.	Defrost	Voltage (Hz)	Shelves (Interior)	Int. Dimensions D x W x H in.	Ext. Dimensions D x W x H in.	Ship Wt. lbs.
CH05FFEECA	5	Manual	115 (60)	2 fixed, 3 door	19 x 18.63 x 29.5	25.75 x 21.38 x 33.13	95
CH20FFEECA*	20.9	Manual	115 (60)	4 fixed, 6 door	23.8 x 27.8 x 57.8	35.81 x 34 x 73.13	198

*Key lock available

Combination refrigerator/freezer - Temperature range: 1°C to 12°C Ref., -12°C to -20°C Frz.

Cat. No.	Cu. Ft.	Defrost	Voltage (Hz)	Shelves (Interior)	Drawer	Int. Dimensions D x W x H in.	Ext. Dimensions D x W x H in.	Ship Wt. lbs.
CH10FCEECA	10.1	Manual	115 (60)	3 adjustable, 1 fixed, 4 door	1	18.25 x 19.75 x 38.25 (ref) 18.25 x 18 x 11.25 (frz)	28.6 x 23.63 x 59.75	150

Cold Storage

Refrigerators/Freezers and Combinations: Flammable Material

Thermo Scientific™ Flammable Material Storage Refrigerator/Freezer

THERMO FISHER SCIENTIFIC - Safely store volatile materials with the Flammable Material Storage Refrigerator/Freezer. Engineered with no internal electrical components which could trigger an explosion. The refrigerator/freezer meets OSHA and National Fire Protection Association safety requirements.

- Temperature range: 1°C to 12°C ref, -12°C to -20°C frz
- Magnetic vinyl gaskets for positive door seal
- CFC-free insulation and coolant
- Three adjustable shelves and four door shelves in refrigerator section
- Hydraulic thermostat; adjustable natural air flow vent
- ABS plastic interior with enameled steel exterior
- Manual defrost
- Refrigerator/freezer has separate doors



Cat. No.	Mfr. No.	Description	Qty.
10FCEETSA	10FCEETSA	10.1 cu. ft. refrigerator/freezer, 3 adjustable, 1 fixed shelf, 1 drawer, 4 door shelves, 115 V	1/ea

Cold Storage

Refrigerators/Freezers and Combinations: **Spark-free**

Select Series Spark-free Laboratory Refrigerators and Freezers

CARDINAL HEALTH - Spark-free refrigerators, freezers and combination units are designed to be used in areas where ignitable materials are normally present. A range of models, particularly suited for safe storage in hazardous environments, are available with sizes from undercounter to full height freestanding.

- Spark-free interior and exteriors reduce the risk of explosion
- All models are manual defrost
- Tough white exterior
- CFC- and HCFC-free refrigeration system and insulation
- Designed for use in Class I, Groups C, D, Group II B and Zone 1
- Plug-free cords (units must be hardwired to wall)

CSA or UL certified.



Refrigerators - Temperature range: 1°C to 12°C

Cat. No.	Cu. Ft.	Defrost	Voltage (Hz)	Shelves (Interior)	Int. Dimensions D x W x H in.	Ext. Dimensions D x W x H in.	Ship Wt. lbs.
CH05ERECA*	5.5	Manual	115 (60)	3 adjustable	17.5 x 20 x 27.75	28.1 x 23.63 x 33.5	120
CH20ERECA*	20.9	Manual	115 (60)	4 fixed, 6 door	23.8 x 27.8 x 57.8	34.96 x 34 x 77.5	198

*Key lock available

Freezers - Temperature range: -12°C to -24°C

Cat. No.	Cu. Ft.	Defrost	Voltage (Hz)	Shelves (Interior)	Int. Dimensions D x W x H in.	Ext. Dimensions D x W x H in.	Ship Wt. lbs.
CH20EFEECA*	20.9	Manual	115 (60)	4 fixed, 6 door	23.8 x 27.8 x 57.8	34.96 x 34 x 77.5	198

*Key lock available

Combination refrigerator/freezer - Temperature range: 1°C to 12°C Ref., -12°C to -20°C Frz.

Cat. No.	Cu. Ft.	Defrost	Voltage (Hz)	Shelves (Interior)	Drawer	Int. Dimensions D x W x H in.	Ext. Dimensions D x W x H in.	Ship Wt. lbs.
CH10ECEECA	10.1	Manual	115 (60)	3 adjustable, 1 fixed, 4 door	1	18.25 x 19.75 x 38.25 (ref) 18.25 x 18 x 11.25 (frz)	28.6 x 23.63 x 59.75	150

Cold Storage

Freezers: General Laboratory

Premier Plus Series -20°C Laboratory Freezers

CARDINAL HEALTH - High-performance manual defrost -20°C laboratory freezers are designed for applications in which even slight intermittent coil warming during auto defrost cannot be tolerated.

- Variable Speed Compressor Technology adjusts cooling performance to the conditions
- SNAP compliant
- Cold wall convection cooling with temperature uniformity
- Enzyme freezers feature enzyme bins
- Quiet operation
- Four 2 in. casters for easy mobility; the front two are lockable
- Keyed on/off switch with easy to use, setpoint security
- Self-closing door with 90° stop to assist with inventory loads
- Built-in remote alarm contacts

ENERGY STAR®, UL and cUL certified.



Temperature range: -15°C to -25°C, factory pre-set to -20°C, manual defrost

Cat. No.	Cu. Ft.	Voltage (Hz)	Electrical Plug	Cabinet	Door	Shelves (Bins)	Int. Dimensions* D x W x H in.	Ext. Dimensions* D x W x H in.	Ship Wt. lbs.
-20°C Freezers									
CAX2320FA	23.3	115 (60)	NEMA 5-15	Upright	Single, solid	4 (0)	28.5 x 24 x 58	38.9 x 28 x 78.5	459
CAX2320FD	23.3	208-230 (60)	NEMA 6-15	Upright	Single, solid	4 (0)	28.5 x 24 x 58	38.9 x 28 x 78.5	438
CAX3020FA	29.2	115 (60)	NEMA 5-15	Upright	Single, solid	4 (0)	28.5 x 30 x 58	38.9 x 34 x 78.5	483
CAX3020FD	29.2	208-230 (60)	NEMA 6-15	Upright	Single, solid	4 (0)	28.5 x 30 x 58	38.9 x 34 x 78.5	483
-20°C Enzyme Freezers									
CAX2320EA	23.3	115 (60)	NEMA 5-15	Upright	Single, solid	9 (45)	28.5 x 24 x 58	38.9 x 28 x 78.5	514
CAX2320ED	23.3	208-230 (60)	NEMA 6-15	Upright	Single, solid	9 (45)	28.5 x 24 x 58	38.9 x 28 x 78.5	493
CAX3020EA	29.2	115 (60)	NEMA 5-15	Upright	Single, solid	9 (54)	28.5 x 30 x 58	38.9 x 34 x 78.5	552
CAX3020ED	29.2	208-230 (60)	NEMA 6-15	Upright	Single, solid	9 (54)	28.5 x 30 x 58	38.9 x 34 x 78.5	552

* Published interior volumes are nominal; useable cu. ft. capacities may be offset by shelves, drawers, blower coils, or cabinet protrusions. For specific cabinet dimensions and allowances, or for verification of clearance tolerances, contact our sales representative. Product performance may be affected by ambient temperature conditions, humidity conditions, sample loading preferences, and frequency of door openings. Contact our sales representative for specific inquiries regarding your application.

Premier Plus Series –30°C Laboratory Freezers

CARDINAL HEALTH - High-performance auto defrost –30°C laboratory freezers are designed for applications requiring storage of reagents, pharmaceuticals, biological and other commonly used laboratory materials such as primers, siRNA molecules and fetal bovine serum (FBS).

- Variable Speed Compressor Technology adjusts cooling performance to the conditions
- SNAP compliant
- Forced-air circulation for temperature uniformity and fast temperature recovery
- Non-invasive defrost with time and temperature guided cycle
- Quiet operation
- Available in single and double door models
- Four 2 in. casters for easy mobility; the front two are lockable
- Keyed on/off switch with easy to use, setpoint security
- Self-closing door with 90° stop to assist with inventory loads
- Built-in remote alarm contacts

ENERGY STAR®, UL and cUL certified.



CAX3030FA

Temperature range: –15°C to –35°C, factory pre-set to –30°C, auto defrost

Cat. No.	Cu. Ft.	Voltage (Hz)	Electrical			Shelves	Int. Dimensions*	Ext. Dimensions*	Ship Wt. lbs.
			Plug	Cabinet	Door				
CAX1230FA	11.5	115 (60)	NEMA 5-15	Space saver	Single, solid	4	21.8 x 20 x 52.4	31.1 x 24 x 73	335
CAX1230FD	11.5	208–230 (60)	NEMA 6-15	Space saver	Single, solid	4	21.8 x 20 x 52.4	31.1 x 24 x 73	335
CAX2330FA	23.3	115 (60)	NEMA 5-15	Upright	Single, solid	4	28.5 x 24 x 58	37.9 x 28 x 78.5	423
CAX2330FD	23.3	208–230 (60)	NEMA 6-15	Upright	Single, solid	4	28.5 x 24 x 58	37.9 x 28 x 78.5	402
CAX3030FA	29.2	115 (60)	NEMA 5-15	Upright	Single, solid	4	28.5 x 30 x 58	37.9 x 34 x 78.5	439
CAX3030FD	29.2	208–230 (60)	NEMA 6-15	Upright	Single, solid	4	28.5 x 30 x 58	37.9 x 34 x 78.5	439
CAX5030FA	51.1	115 (60)	NEMA 5-20	Upright	Double, solid	8	28.5 x 52.5 x 58	37.9 x 56.5 x 78.5	621
CAX5030FD	51.1	208–230 (60)	NEMA 6-15	Upright	Double, solid	8	28.5 x 52.5 x 58	37.9 x 56.5 x 78.5	621

* Published interior volumes are nominal; useable cu. ft. capacities may be offset by shelves, drawers, blower coils, or cabinet protrusions. For specific cabinet dimensions and allowances, or for verification of clearance tolerances, contact our sales representative. Product performance may be affected by ambient temperature conditions, humidity conditions, sample loading preferences, and frequency of door openings. Contact our sales representative for specific inquiries regarding your application.

Premier Series –30°C Laboratory Freezer

Temperature range: –15°C to –35°C, factory pre-set to –30°C, auto defrost

Cat. No.	Cu. Ft.	Voltage (Hz)	Electrical			Shelves	Int. Dimensions*	Ext. Dimensions*	Ship Wt. lbs.
			Plug	Cabinet	Door				
R3863-2A	4.9	115 (60)	NEMA 5-15	Undercounter	Single, solid	3	20.5 x 20 x 20	26 x 24 x 33.4	220

* Published interior volumes are nominal; useable cu. ft. capacities may be offset by shelves, drawers, blower coils, or cabinet protrusions. For specific cabinet dimensions and allowances, or for verification of clearance tolerances, contact our sales representative. Product performance may be affected by ambient temperature conditions, humidity conditions, sample loading preferences, and frequency of door openings. Contact our sales representative for specific inquiries regarding your application.

Cold Storage

Freezers: General Laboratory

Pro Series Freezers

CARDINAL HEALTH - Pro Series Freezers are designed with your laboratory in mind, combining the performance, security and quality required for everyday laboratory applications.

- SNAP compliant
- Whisper-quiet operation at 51 dBA
- Adaptive defrost
- Stainless steel interior and gray exterior
- LED interior lighting
- Temperature, door ajar, and power failure (with battery back-up) alarms
- Digital controller
- Low heat output
- Rear access port
- Keyed door lock(s)

ENERGY STAR® and cULus certified.



Temperature range: -12°C to -24°C , adaptive defrost

Cat. No.	Cu. Ft.	Voltage (Hz)	Electrical Plug	Finish	Door	Shelves	Int. Dimensions D x W x H in.	Ext. Dimensions D x W x H in.	Ship Wt. lbs.
CHG25FSSA	26.5	115 (60)	NEMA 5-15	Stainless steel	Solid	3	26 x 27 x 61.6	33.75 x 30 x 82	516
CHG49FSSA	46.2	115 (60)	NEMA 5-15	Stainless steel	Solid	6	26 x 49 x 61.6	33.75 x 52 x 82	640

Premier Laboratory Freezers

NOR-LAKE SCIENTIFIC - These laboratory freezers are designed for heavy-duty use and are available with one, two or three solid doors. They feature a top-mounted non-CFC refrigeration system, air-cooled condensing unit, automatic condensate evaporators, automatic defrost and microprocessor control with integrated LED visual display and warm/cold audible and visual alarm.

The freezer cabinet is formed-in-place with high-density polyurethane foam insulation. The exterior front, sides, back and doors are painted white, while exterior top and bottom are galvanized steel. The interior liner and interior door panel are white and there are three epoxy-coated wire shelves per door. Doors have heavy-duty pivot hinges, pull handles with centered key locks and self-adjusting magnetic gaskets. There are four casters (two locking) on one- and two-door models and six casters (three locking) on three-door models. Preset at -25°C . UL- and CUL-listed.

Specifications:

Temperature range 25°C to -10°C

Power requirements 115 V, 60 Hz

PF241WWW0

Dimensions (H x W x D) Interior: 59 x 23½ x 30 in., exterior: 79¾ x 27½ x 34¾ in.

PF331WWW0 (H x W x D)

Dimensions (H x W x D) Interior: 67 x 27¾ x 31 in., exterior: 87¾ x 31¾ x 35¾ in.

PF522WWW0 (H x W x D)

Dimensions (H x W x D) Interior: 59 x 51 x 30 in., exterior: 79¾ x 55 x 34¾ in.

Cat. No.	Mfr. No.	Description	Qty.
PF241WWW0	NSPF241WWW/0	24 cu. ft. - 12.8 sq. ft. shelf area - 1 door	1/ea
PF331WWW0	NSPF331WWW/0	33 cu. ft. - 15.9 sq. ft. shelf area - 1 door	1/ea
PF522WWW0	NSPF522WWW/0	52 cu. ft. - 28.6 sq. ft. shelf area - 2 doors	1/ea



PF241WWW0

Premier Low-Temperature Laboratory Freezer

NOR-LAKE SCIENTIFIC - Designed for heavy-duty laboratory and pharmacy storage, this freezer features a digital LED microprocessor control with high/low visual alarm and remote alarm contacts. Also features a top-mounted, non-CFC refrigeration system, air-cooled condensing unit, automatic condensate evaporator and automatic defrost. Freezer has white interior with three epoxy-coated shelves per door. The exterior front, sides and back are white baked-on enamel and the exterior top and bottom are galvanized steel. The cabinet and doors are foamed-in-place with high-density polyurethane foam insulation. Doors have heavy-duty pivot hinges, full-length stainless-steel pull handles and centered key locks, magnetic door gasket and interior light.

Mounted on four casters for convenient mobility. Operating temperature factory preset to -30°C . UL/CUL-listed. Warranties: 18-month parts and labor, 5-year compressor (US and Canada). Available with optional features including chart recorder, stainless steel interior and exterior, extra shelves, stainless steel drawers (eight per door), wire drawers baskets (eight per door) and lead access ports. This model is rated for 115 V, 1 PH, 60 Hz, includes: power cord with NEMA 5-20 plug.

Specifications:

Temperature range -30°C to -20°C

Interior dimensions (H x W x D) 50 x 51 x 30 in.

Exterior dimensions (H x W x D) 83¼ x 55 x 34¾ in.



Cat. No.	Mfr. No.	Description	Qty.
XF482WWW0	NSXF482WWW/0	52 cu. ft. - 39.7 sq. ft. - 6 shelves	1/ea

Cold Storage

Freezers: General Laboratory

Cold Storage



Biomedical Refrigerators with Freezers

PHC CORPORATION OF NORTH AMERICA* - With the growing emphasis on proper storage of laboratory and pharmacy materials, refrigerators with freezers combines high performance refrigeration, control and monitoring systems with energy efficient, cost-effective cabinet design. Separate refrigeration systems and compressors allow you to maintain proper temperature uniformity while saving space for even the smallest of facilities.

- Temperature uniformity with forced air refrigerator circulation
- Separate refrigeration systems for refrigerator and freezer
- Microprocessor controller for comprehensive setpoint, alarm, monitoring and diagnostic functions
- Unique cycle defrost refrigerator only initiates as required and maintains internal temperature uniformity without fluctuations
- Validated storage: refrigerator freezer is designed to assure stored product safety to meet regulatory guidelines

Specifications:

Temperature uniformity/range

Refrigerator 2°C to 14°C

Freezer -20°C to -30°C

Dimensions (W x D x H)

MPR-215F

Interior Refrigerator 17.9 x 18.3 x 36.1 in., freezer 16.5 x 13.5 x 10.5 in.

External 21.3 x 21.9 x 70.6 in.

MPRN450FHP and MPRN450FSH

Interior Refrigerator 28.3 x 20.3 x 35.9 in., freezer 26.8 x 18.5 x 16.3 in.

External 31.9 x 25.2 x 72.4 in.

MPR-715F

Interior Refrigerator 31.9 x 24.2 x 35.2 in., freezer 30.3 x 21.7 x 16.6 in.

External 35.4 x 28.1 x 75.2 in.

*Formerly known as Panasonic Healthcare Corporation of North America

Cat. No.	Mfr. No.	Description	Qty.
MPR-215F	MPR-215F-PA	6.2/1.4 cu. ft. ref./freezer - 2-door, 3 wire coated shelves - ref./1 wire coated shelf - frz.	1/ea
MPRN450FH	MPR-N450FH-PA	11.5/4.8 cu. ft. ref./freezer - glass windows top, 4-door, 3 glass shelves - ref./2 wire coated - frz.	1/ea
MPRN450FSH	MPR-N450FSH-PA	11.5/4.8 cu. ft. ref./freezer - solid doors top, 4-door, 3 glass shelves - ref./2 wire coated - frz.	1/ea
MPR-715F	MPR-715F-PA	14.7/6.2 cu. ft. ref./freezer - 4-door, 3 wire coated shelves - ref./2 wire coated shelves - frz.	1/ea



MDF-U5312



MDF-U731

-30°C Biomedical Upright Freezer

PHC CORPORATION OF NORTH AMERICA* - The -30°C Biomedical Upright Freezer is a high performance freezer designed to preserve the integrity of biological samples at temperatures as low as -30°C. Constructed with high performance laboratory and clinical grade refrigeration systems, these freezers are used in medical, biotechnology and industrial labs for storage of blood components, enzymes, culture media, reagents, specimens and vaccines.

- Optimum storage capabilities designed for short- and intermediate-term storage
- Temperature uniformity assures stored product safety regardless of where in the refrigerator it is placed
- Microprocessor controller includes setpoint management, digital temperature displays, battery backup, audio/visual alarms

Specifications:

Temperature range MDF-U333/MDF-U5312 (-20°C to -30°C)

Temperature range MDF-U731/MDF-U5312 (-15°C to -30°C)

Temperature range MDF-U731M (-18°C to -30°C)

Dimensions (W x D x H)

MDF-U333

Dimensions (W x D x H) Interior 19.3 x 19.1 x 50.8 in.
Exterior 24.2 x 27.9 x 63.8 in.

MDF-U5312

Dimensions (W x D x H) Interior 25.9 x 23.9 x 50.1 in.
Exterior 31.7 x 30.4 x 70.9 in.

MDF-U731 (auto defrost)

Dimensions (W x D x H) Interior 25.6 x 27.6 x 54 in.
Exterior 30.3 x 32.7 x 77 in.

MDF-U731M (manual defrost)

Dimensions (W x D x H) Interior 25.6 x 27.5 x 59.8 in.
Exterior 30.3 x 32.7 x 77 in.

*Formerly known as Panasonic Healthcare Corporation of North America

Cat. No.	Mfr. No.	Description	Qty.
MDF-U333	MDF-U334-PA	9.7 cu. ft. - bins 4 large, 1 small	1/ea
MDF-U5312	MDF-U5312-PA	17 cu. ft. - bins 4 large, 6 medium	1/ea
MDF-U731	MDF-U731-PA	22 cu. ft. - 4 shelves	1/ea
MDF-U731M	MDF-U731M-PA	24.4 cu. ft. - 4 shelves	1/ea

Cold Storage

Freezers: General Laboratory

Thermo Scientific™ TSX Series High-Performance Manual Defrost –20°C Freezers

THERMO FISHER SCIENTIFIC - Manual defrost, high-performance freezers are designed for applications in which even slight intermittent coil warming during auto defrost cannot be tolerated.

- ENERGY STAR® certified and SNAP compliant
- UL and cUL certified
- Factory pre-set to –20°C
- Temperature range –25°C to –15°C, manual defrost
- Cold wall convection cooling with temperature uniformity
- Enzyme freezers feature enzyme bins
- GMP Clean Room Class A/ISO 6 (ISO EN 14644-1) compatible with appropriate pre-install preparation
- Quiet operation at just 50 dBA
- Four 2 in. casters for easy mobility; the front two are lockable
- Keyed on/off switch with easy to use, setpoint security
- NEW ergonomic handle with soft touch grip
- Self-closing door with 90° stop to assist with inventory loads
- Built-in remote alarm contacts



TSX2320FA

Cat. No.	Mfr. No.	Description	Qty.
TSX2320FA	TSX2320FA	23 cu. ft. freezer, solid door, 4 shelves, 115 V	1/ea
TSX2320FD	TSX2320FD	23 cu. ft. freezer, solid door, 4 shelves, 208–230 V	1/ea
TSX2320EA	TSX2320EA	23 cu. ft. enzyme freezer, solid door, 9 shelves, 45 bins, 115 V	1/ea
TSX2320ED	TSX2320ED	23 cu. ft. enzyme freezer, solid door, 9 shelves, 45 bins, 208–230 V	1/ea

Thermo Scientific™ TSX Series High-Performance Auto Defrost –30°C Freezers

THERMO FISHER SCIENTIFIC - High-performance laboratory freezers are designed for applications requiring storage of reagents, pharmaceuticals, biological and other commonly used laboratory materials such as primers, siRNA molecules and fetal bovine serum (FBS).

- Energy Star certified and SNAP compliant
- FDA and UL, cUL certified
- Factory pre-set to –30°C
- Temperature range –35°C to –15°C, auto defrost
- Forced-air circulation for temperature uniformity and fast temperature recovery
- Non-invasive defrost with time and temperature guided cycle
- GMP Clean Room Class A / ISO 6 (ISO EN 14644-1) compatible with appropriate preinstall preparation
- Quiet operation at just 52 dBA
- Available in single and double door models
- Four 2 in. casters for easy mobility; the front two are lockable
- Keyed on/off switch with easy to use, setpoint security
- Self-closing door with 90° stop to assist with inventory loads
- NEW ergonomic handle with soft touch grip
- Built-in remote alarm contacts



TSX2330FA

Cat. No.	Mfr. No.	Description	Qty.
TSX2330FA	TSX2330FA	23 cu. ft. freezer, solid door, 4 shelves, 115 V	1/ea
TSX2330FD	TSX2330FD	23 cu. ft. freezer, solid door, 4 shelves, 208–230 V	1/ea
TSX5030FA	TSX5030FA	51 cu. ft. freezer, 2 solid doors, 8 shelves, 115 V	1/ea
TSX5030FD	TSX5030FD	51 cu. ft. freezer, 2 solid doors, 8 shelves, 208–230 V	1/ea

Cold Storage

Freezers: -30°C Plasma



Premier Plus Series -30°C Plasma Freezers

CARDINAL HEALTH - High-performance auto defrost -30°C plasma freezers with automatic defrost are designed to meet strict requirements established by the AABB for the storage of plasma.

- Variable Speed Compressor Technology adjusts cooling performance to the conditions
- SNAP compliant
- Forced-air circulation for temperature uniformity and fast temperature recovery
- Heat-free defrost for maximum temperature uniformity
- Convenient, stainless steel, fully extendable and adjustable drawers
- Standard, built-in chart recorder
- Quiet operation
- Available in single and double door models
- Four 2 in. casters for easy mobility; the front two are lockable
- Bright, LED interior lighting
- Keyed on/off switch with easy to use, setpoint security
- Self-closing door with 90° stop to assist with inventory loads
- Built-in remote alarm contacts
- FDA listed Class I Medical Device, 510K exempt

ENERGY STAR®, UL and cUL certified.



Temperature range: -15°C to -35°C, factory pre-set to -30°C, auto defrost

Cat. No.	Cu. Ft. (Plasma Boxes**)	Voltage (Hz)	Electrical			Drawers	Int. Dimensions* D x W x H in.	Ext. Dimensions* D x W x H in.	Ship Wt. lbs.
			Plug	Cabinet	Door				
CAX1230LA	11.5 (273)	115 (60)	NEMA 5-15	Space saver	Single, solid	7	21.8 x 20 x 52.4	31.1 x 24 x 73	412
CAX1230LD	11.5 (273)	208-230 (60)	NEMA 6-15	Space saver	Single, solid	7	21.8 x 20 x 52.4	31.1 x 24 x 73	412
CAX2330LA	23.3 (532)	115 (60)	NEMA 5-15	Upright	Single, solid	7	28.5 x 24 x 58	37.9 x 28 x 78.5	526
CAX2330LD	23.3 (532)	208-230 (60)	NEMA 6-15	Upright	Single, solid	7	28.5 x 24 x 58	37.9 x 28 x 78.5	505
CAX3030LA	29.2 (665)	115 (60)	NEMA 5-15	Upright	Single, solid	7	28.5 x 30 x 58	37.9 x 34 x 78.5	556
CAX3030LD	29.2 (665)	208-230 (60)	NEMA 6-15	Upright	Single, solid	7	28.5 x 30 x 58	37.9 x 34 x 78.5	556
CAX5030LA	51.1 (1064)	115 (60)	NEMA 5-20	Upright	Double, solid	14	28.5 x 52.5 x 58	37.9 x 56.5 x 78.5	817
CAX5030LD	51.1 (1064)	208-230 (60)	NEMA 6-15	Upright	Double, solid	14	28.5 x 52.5 x 58	37.9 x 56.5 x 78.5	817

* Published interior volumes are nominal; useable cu. ft. capacities may be offset by shelves, drawers, blower coils, or cabinet protrusions. For specific cabinet dimensions and allowances, or for verification of clearance tolerances, contact our sales representative. Product performance may be affected by ambient temperature conditions, humidity conditions, sample loading preferences, and frequency of door openings. Contact our sales representative for specific inquiries regarding your application.

**250 mL plasma boxes

Premier Series -30°C Plasma Freezer

Temperature range: -15°C to -35°C, factory pre-set to -30°C, auto defrost

Cat. No.	Cu. Ft. (Plasma Boxes**)	Voltage (Hz)	Electrical			Drawers	Int. Dimensions* D x W x H in.	Ext. Dimensions* D x W x H in.	Ship Wt. lbs.
			Plug	Cabinet	Door				
R3863-3A	4.9 (78)	115 (60)	NEMA 5-15	Undercounter	Single, solid	2	20.5 x 20 x 20	26 x 24 x 33.4	220

* Published interior volumes are nominal; useable cu. ft. capacities may be offset by shelves, drawers, blower coils, or cabinet protrusions. For specific cabinet dimensions and allowances, or for verification of clearance tolerances, contact our sales representative. Product performance may be affected by ambient temperature conditions, humidity conditions, sample loading preferences, and frequency of door openings. Contact our sales representative for specific inquiries regarding your application.

**250 mL plasma boxes

Cold Storage

Freezers: -30°C Plasma

Thermo Scientific™ TSX Series High-Performance -30°C Plasma Freezers

THERMO FISHER SCIENTIFIC - Our pre-set, high-performance -30°C plasma freezers with automatic defrost are designed to meet strict requirements established by the AABB for the storage of plasma.

- Energy Star certified and SNAP compliant
- FDA and UL, cUL certified
- Factory pre-set to -30°C
- Temperature range -15°C to -35°C, auto defrost
- Forced-air circulation for temperature uniformity and fast temperature recovery
- Heat-free defrost for maximum temperature uniformity
- Convenient, stainless steel, fully extendable and adjustable drawers
- GMP Clean Room Class A / ISO 6 (ISO EN 14644-1) compatible with appropriate pre-install preparation
- Standard, built-in chart recorder
- Quiet operation at just 52 dBA
- Available in single and double door models
- Four 2 in. casters for easy mobility; the front two are lockable
- Bright, LED interior lighting
- Keyed on/off switch with easy to use, setpoint security
- Self-closing door with 90° stop to assist with inventory loads
- NEW ergonomic handle with soft touch grip
- Built-in remote alarm contacts



TSX2330LA

Cat. No.	Mfr. No.	Description	Qty.
TSX2330LA	TSX2330LA	23 cu. ft. freezer, solid door, 7 drawers, 115 V	1/ea
TSX2330LD	TSX2330LD	23 cu. ft. freezer, solid door, 7 drawers, 208-230 V	1/ea
TSX5030LA	TSX5030LA	51 cu. ft. freezer, 2 solid doors, 14 drawers, 115 V	1/ea
TSX5030LD	TSX5030LD	51 cu. ft. freezer, 2 solid doors, 14 drawers, 208-230 V	1/ea

Cold Storage

Freezers: Explosion Proof

Thermo Scientific™ Explosion-Proof Freezer

THERMO FISHER SCIENTIFIC - These explosion-proof freezers are particularly suited for safe storage in hazardous environments.

- Temperature range: -12°C to -20°C
- Thermostat and compressor components isolated within a vapor-proof enclosure
- Electrical connections hardwired to prevent sparking and accidental disconnection
- Magnetic vinyl gaskets for positive door seal
- CFC-free insulation and refrigerant
- Hydraulic thermostat
- Aluminum evaporator coil

Cat. No.	Mfr. No.	Description	Qty.
20EFEETSA	20EFEETSA	20.9 cu. ft. freezer, 4 fixed interior shelves, 1 wire basket, 6 door shelves, 115 V	1/ea



Cold Storage

Freezers: Undercounter

High Performance Biomedical Undercounter Freezer

PHC CORPORATION OF NORTH AMERICA* - This ENERGY STAR® certified undercounter freezer was developed for the critical storage of vaccine and biological materials. The freestanding or undercounter high performance laboratory freezer combines PHCbi brand compressors with stringent control processes to provide the highest quality laboratory freezer available. This small vaccine freezer provides a versatile undercounter design, high performance optimized temperature control and LED display for alarms and diagnostic functions.

- Microprocessor control/alarm system
- Front airflow refrigeration compartment design requires no additional air space around the cabinet.
- Freezer includes a manual defrost function so that sensitive frozen enzymes or vaccines are not exposed to temperature deviation
- One cabinet can be stacked on top of another to double storage volume, an optional stacking adapter is required.



Specifications:

Temperature range -15°C to -20°C in 1°C increments

Temperature uniformity ±5°C

Dimensions

Interior (W x D x H) 20.9 x 17.4 x 27.8 in.

Exterior (W x D x H) 23.6 x 25.7 x 34.6 in.

Power requirements 115 V, 60 Hz

*Formerly known as Panasonic Healthcare Corporation of North America

Cat. No.	Mfr. No.	Description	Qty.
SF-L6111W	SF-L6111W-PA	5.5 cu. ft. freezer with key lock	1/ea
SRF-L61PS	SRFL61PS	Stacking adapter	1/ea

Cold Storage

Freezers: Undercounter

Undercounter Laboratory Freezer

PHC CORPORATION OF NORTH AMERICA* - Under the counter laboratory freezers are specifically designed to optimize cold storage for a variety of laboratory applications. Compact size makes installation easy for under the counter storage. Reliable temperature storage is achieved at a performance range of -13°C to -20°C . Freezers are also equipped with manual defrost feature for steady temperature uniformity. Easy maintenance is achieved by a foamed in condenser design that reduces collection of dust particles on unit, minimizing cleaning time.

Specifications:

Temperature range -13°C to -20°C
Shelves 2 fixed shelves with cooling coil in shelves
Dimensions (W x D x H) 21.4 x 25.9 x 33.7 in.

*Formerly known as Panasonic Healthcare Corporation of North America



Cat. No.	Mfr. No.	Description	Qty.
PFL5011WPA	PF-L5011W-PA	5 cu. ft. freezer	1/ea
5011WSEC	PF-L5011WSEC-PA	5 cu. ft. freezer with hasp lock	1/ea

Thermo Scientific™ Value Lab Freezers

THERMO FISHER SCIENTIFIC - Meet routine laboratory storage requirements with Thermo Scientific™ Value Lab Upright Freezers. Freezers feature digital controls and excellent temperature stability.

- Environmentally-friendly, non CFC refrigerants
- Adjustable temperature control
- Easy-to-clean, durable finish
- Manual defrost



Specifications:

Temperature range

Model 4LFEETSA -12°C to -20°C

Model 5LFEETSA -12°C to -24°C

Cat. No.	Mfr. No.	Description	Qty.
4LFEETSA	04LFEETSA	3.5 cu. ft. freezer, 3 drawers	1/ea
5LFEETSA	05LFEETSA	5 cu. ft. freezer, 2 fixed interior, 3 door shelves, 115 V	1/ea

Cardinal Health™ Accessories: Refrigerators and Freezers

Premier Plus and Premier Accessories

	4.9 cu. ft. (133 L)	11.5 cu. ft. (326 L)	23.3 cu. ft. (659 L)	29.2 cu. ft. (826 L)	45.8 cu. ft. (1,297 L)	51.1 cu. ft. (1,447 L)	78.8 cu. ft. (2,231 L)
Shelves	Cat. No.	Cat. No.	Cat. No.	Cat. No.	Cat. No.	Cat. No.	Cat. No.
Epoxy-coated, full size	TFS7125	TFS7125	TFS6696	TFS6695	TFS6696	TFS6696	TFS6696

Door options

LH swing, solid	TFS7119	TFS6995	TFS6997	TFS6999	n/a	n/a	n/a
LH swing, glass	n/a	TFS6996	TFS6998	TFS7000	n/a	n/a	n/a
RH swing, glass	TFS7118	TFS7066	TFS7012	TFS7013	n/a	n/a	n/a
LH/RH swing, glass	n/a	n/a	n/a	n/a	n/a	TFS7014	n/a
LH/LH/LH swing, solid	n/a	n/a	n/a	n/a	n/a	n/a	TF57070
LH/LH/LH swing, glass	n/a	n/a	n/a	n/a	n/a	n/a	TF57071
LH/LH/LH swing, heated glass	n/a	n/a	n/a	n/a	n/a	n/a	TF57093
RH/RH/RH swing, solid	n/a	n/a	n/a	n/a	n/a	n/a	TF57072
RH/RH/RH swing, glass	n/a	n/a	n/a	n/a	n/a	n/a	TF57008
RH/RH/RH swing, heated glass	n/a	n/a	n/a	n/a	n/a	n/a	TF57083
LH/LH/RH swing, solid	n/a	n/a	n/a	n/a	n/a	n/a	TF57009
LH/LH/RH swing, glass	n/a	n/a	n/a	n/a	n/a	n/a	TF57010
LH/LH/RH swing, heated glass	n/a	n/a	n/a	n/a	n/a	n/a	TF57084
LH/RH/RH swing, glass	n/a	n/a	n/a	n/a	n/a	n/a	TF57015

Roll-out drawers – Complete set

Refrigerator and freezer	n/a	TFS7445 (5)	TFS6699 (6)	TFS6704 (6)	n/a	TFS6700 (12)	TF56701 (18)
Additional refrigerator and freezer	n/a	n/a	TFS6702	TFS6725	n/a	TFS6702	TFS6702

Finishes (adds 1 in. or 25 mm to unit height)

Stainless steel interior (not available on -20°C models)	TFS7116	TFS6199-3D	TFS6115	TFS6709	TFS6711	TFS6116	TFS6117
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Cold Storage

Cardinal Health™ Accessories: Refrigerators and Freezers

Premier Plus and Premier Accessories

	4.9 cu. ft. (133 L)	11.5 cu. ft. (326 L)	23.3 cu. ft. (659 L)	29.2 cu. ft. (826 L)	45.8 cu. ft. (1,297 L)	51.1 cu. ft. (1,447 L)	78.8 cu. ft. (2,231 L)
Temperature recorders	Cat. No.	Cat. No.	Cat. No.	Cat. No.	Cat. No.	Cat. No.	Cat. No.
Built-in, factory installed	n/a	TFS6183-7	TFS6183-7	TFS6183-7	TFS6183-7	TFS6183-7	TFS6183-7
Replacement chart paper -40°C to +25°C, box of 50	TFS6184	TFS6184	TFS6184	TFS6184	TFS6184	TFS6184	TFS6184
Surge suppressor							
115 V, 60 Hz model	TFS6402-1	TFS6402-1	TFS6402-1	TFS6402-1	TFS6402-1	TFS6402-1	TFS6402-1
208–230 V, 60 Hz model	6402-2	6402-2	6402-2	6402-2	6402-2	6402-2	6402-2
Lab cooler modules							
Lab Cooler II (holds 24 - 1.5 mL tubes and 8 - 0.5 mL tubes)	TFS6744	TFS6744	TFS6744	TFS6744	TFS6744	TFS6744	TFS6744
LabCooler Lite (holds 7 - 1.5 mL tubes)	TFS6745	TFS6745	TFS6745	TFS6745	TFS6745	TFS6745	TFS6745
Deluxe electronic telephone dialer							
Requires dedicated phone line	TFS6224TA	TFS6224TA	TFS6224TA	TFS6224TA	TFS6224TA	TFS6224TA	TFS6224TA
Alarm delay module							
Specify refrigerator freezer voltage with order	TFS6903	TFS6903	TFS6903	TFS6903	TFS6903	TFS6903	TFS6903
Digital temperature monitor							
Single input channel, temperature range -100°C to +25°C, set point resolution of 1°C, high temperature alarm only, numeric LCD display, red visual alarm, 8 ft. Teflon® lead wire, Velcro® mounting strap, 5 L x 2 D x 4.5 W in. (130 x 50 x 110 mm), 120 V, 60 Hz, with a 15 amp dual prong plug (fits NEMA 5-15R)	TFS6898	TFS6898	TFS6898	TFS6898	TFS6898	TFS6898	TFS6898
Enzyme storage bin							
Labels not included	n/a	n/a	TFS6736	TFS6736	n/a	n/a	n/a

Cardinal Health™ -86°C Ultra-Low Temperature Freezers**Features and Benefits:**

- Reduced/low peak variation to protect sample temperature¹
- Lower energy consumption and HVAC costs
- Low noise, like your home refrigerator²
- Fast door opening recovery
- Four capacities: 300, 400, 500 and 600, 2-inch box
- Two voltages: 115 V, 60 Hz and 208–230 V, 60 Hz
- Environmentally-friendly, water-blown foam insulation compliant with EPA SNAP
- FDA Class II medical device for storage of blood, plasma, tissue, skin and bone.³

User Interface and Ergonomic Design:

- Plug in and go, no setup required.
- 5.6 in. with bold temperature display and capacitive touch button
- Alarm settings, setpoint security passcode and padlock-compatible doors
- Single-hand door operation, quick maintenance with easy access filter/grill assembly
- Four inner doors to reduce heat impacts on samples during normal use



CAR60086FA

Upright Freezers Temperature range: -50°C to -86°C

General Purpose	FDA Class II	Cu. Ft.	Voltage (Hz)	Amps/Breaker (Plug)	Max. Shelf Weight lbs.	Int. Dimensions D x W x H in.	Ext. Dimensions D x W* x H in.	Ship Wt. lbs.
Cat. No.	Cat. No.	(2 in. Cryobox)						
CAR30086FA	CAR30086LA	14.9 (300)	115 (60)	12.6/20 (NEMA 5-20)	125	28.3 x 17.8 x 51.2	38.5 x 23 x 78	712
CAR30086FD	CAR30086LD	14.9 (300)	208–230 (60)	5.6/15 (NEMA 6-15)	125	28.3 x 17.8 x 51.2	38.5 x 23 x 78	712
CAR40086FA	CAR40086LA	19.4 (400)	115 (60)	13.0/20 (NEMA 5-20)	165	28.3 x 23.1 x 51.2	38.5 x 28.3 x 78	687
CAR40086FD	CAR40086LD	19.4 (400)	208–230 (60)	5.9/15 (NEMA 6-15)	165	28.3 x 23.1 x 51.2	38.5 x 28.3 x 78	687
CAR50086FA	CAR50086LA	24.1 (500)	115 (60)	12.5/20 (NEMA 5-20)	205	28.3 x 28.8 x 51.2	38.5 x 34 x 78**	734
CAR50086FD	CAR50086LD	24.1 (500)	208–230 (60)	5.0/15 (NEMA 6-15)	205	28.3 x 28.8 x 51.2	38.5 x 34 x 78**	734
CAR60086FA	CAR60086LA	28.8 (600)	115 (60)	12.7/20 (NEMA 5-20)	245	28.3 x 34.4 x 51.2	38.5 x 39.6 x 78**	820
CAR60086FD	CAR60086LD	28.8 (600)	208–230 (60)	6.2/15 (NEMA 6-15)	245	28.3 x 34.4 x 51.2	38.5 x 39.6 x 78**	820

* Allowance for handle and hinge, add 4.2 in. to cabinet width

** Doorway width clearance is 34.5 in. for CAR50086 and CAR60086

¹ Typical freezer data based on internal testing with freezer setpoint at -80°C and ambient temperature at 20°C. Performance data varies across freezer size and electrical specific cations.

² All data based on internal data unless otherwise noted. Data on file.

³ FDA Class II Models are listed under product code KSE, regulation number 864.9700. This unit is not intended for use in classified hazardous locations, nor to be used for the storage of flammable inventory. Reference: AABB - Technical Manual 17th Ed., page 273,274. STANDARDS FOR TISSUE BANKING 14th Ed., Section E, E3.300, E3.310, Table E3.331. Note for clarity: The 'Bone' is the Osteoarticular Graft, a weight bearing allograft with intact articular surfaces, consisting of a joint with associated soft tissue and bone. STANDARDS FOR TISSUE BANKING 14th Ed., Section page 8.

Chest Freezer Temperature range: -50°C to -86°C

Cat. No.	Cu. Ft. (2 in. Cryobox)	Voltage (Hz)	Amps/Breaker (Plug)	Int. Dimensions D x W x H in.	Ext. Dimensions D x W* x H in.	Ship Wt. lbs.
CARC0386AT	3 (63)	115 (60)	11.5/15 (NEMA 5-15)	18.5 x 18.5 x 16.5	32.3 x 28.7 x 43.8	432

[†] Note: 3 cu. ft. chest freezer is not SNAP compliant

Cold Storage

Freezer Packages: Ultra-Low Temperature

Cardinal Health™ General Purpose -86°C Ultra-Low Freezer with two shelves of sliding drawer racks

Cat. No.	Package Description	Box Capacity	Voltage	Package for Model #
CAR386FARK	Two shelves of sliding drawer racks and 2 inch boxes	300 box capacity	115 V, 60 Hz	CAR30086FA
CAR386FDRK	Two shelves of sliding drawer racks and 2 inch boxes	300 box capacity	208–230 V, 60 Hz	CAR30086FD
CAR486FARK	Two shelves of sliding drawer racks and 2 inch boxes	400 box capacity	115 V, 60 Hz	CAR40086FA
CAR486FDRK	Two shelves of sliding drawer racks and 2 inch boxes	400 box capacity	208–230 V, 60 Hz	CAR40086FD
CAR586FARK	Two shelves of sliding drawer racks and 2 inch boxes	500 box capacity	115 V, 60 Hz	CAR50086FA
CAR586FDRK	Two shelves of sliding drawer racks and 2 inch boxes	500 box capacity	208–230 V, 60 Hz	CAR50086FD
CAR686FARK	Two shelves of sliding drawer racks and 2 inch boxes	600 box capacity	115 V, 60 Hz	CAR60086FA
CAR686FDRK	Two shelves of sliding drawer racks and 2 inch boxes	600 box capacity	208–230 V, 60 Hz	CAR60086FD

Cardinal Health™ General Purpose -86°C Ultra-Low Freezer with factory installed chart recorder and two shelves of sliding drawer racks

Cat. No.	Package Description	Box Capacity	Voltage	Package for Model #
CAR5FARCR	Chart recorder - 2 shelves of sliding drawer racks and 2 inch boxes	500 box capacity	115 V, 60 Hz	CAR50086FA
CAR5FDRCR	Chart recorder - 2 shelves of sliding drawer racks and 2 inch boxes	500 box capacity	208–230 V, 60 Hz	CAR50086FD
CAR6FARCR	Chart recorder - 2 shelves of sliding drawer racks and 2 inch boxes	600 box capacity	115 V, 60 Hz	CAR60086FA
CAR6FDRCR	Chart recorder - 2 shelves of sliding drawer racks and 2 inch boxes	600 box capacity	208–230 V, 60 Hz	CAR60086FD

Cardinal Health™ General Purpose -86°C Ultra-Low Freezer with factory installed CO₂ back-up and two shelves of sliding drawer racks

Cat. No.	Package Description	Box Capacity	Voltage	Package for Model #
CAR4FARCO	CO ₂ backup system - 2 shelves of sliding drawer racks and 2 inch boxes	400 box capacity	115 V, 60 Hz	CAR40086FA
CAR4FDRCO	CO ₂ backup system - 2 shelves of sliding drawer racks and 2 inch boxes	400 box capacity	208–230 V, 60 Hz	CAR40086FD
CAR5FARCO	CO ₂ backup system - 2 shelves of sliding drawer racks and 2 inch boxes	500 box capacity	115 V, 60 Hz	CAR50086FA
CAR5FDRCO	CO ₂ backup system - 2 shelves of sliding drawer racks and 2 inch boxes	500 box capacity	208–230 V, 60 Hz	CAR50086FD
CAR6FARCO	CO ₂ backup system - 2 shelves of sliding drawer racks and 2 inch boxes	600 box capacity	115 V, 60 Hz	CAR60086FA
CAR6FDRCO	CO ₂ backup system - 2 shelves of sliding drawer racks and 2 inch boxes	600 box capacity	208–230 V, 60 Hz	CAR60086FD

Cardinal Health™ General Purpose -86°C Ultra-Low Freezer with factory installed LN₂ back-up and two shelves of sliding drawer racks

Cat. No.	Description	Box Capacity	Voltage	Package for Model #
CAR4FARLN	LN ₂ backup system - 2 shelves of sliding drawer racks and 2 inch boxes	400 box capacity	115 V, 60 Hz	CAR40086FA
CAR4FDRLN	LN ₂ backup system - 2 shelves of sliding drawer racks and 2 inch boxes	400 box capacity	208–230 V, 60 Hz	CAR40086FD
CAR5FARLN	LN ₂ backup system - 2 shelves of sliding drawer racks and 2 inch boxes	500 box capacity	115 V, 60 Hz	CAR50086FA
CAR5FDRLN	LN ₂ backup system - 2 shelves of sliding drawer racks and 2 inch boxes	500 box capacity	208–230 V, 60 Hz	CAR50086FD
CAR6FARLN	LN ₂ backup system - 2 shelves of sliding drawer racks and 2 inch boxes	600 box capacity	115 V, 60 Hz	CAR60086FA
CAR6FDRLN	LN ₂ backup system - 2 shelves of sliding drawer racks and 2 inch boxes	600 box capacity	208–230 V, 60 Hz	CAR60086FD

Freezer Options and Accessories: Ultra-Low Temperature

Options for Cardinal Health™ -86°C Ultra-Low Temperature Freezers

Model CAR30086 Cat. No.	Model CAR40086 Cat. No.	Model CAR50086 Cat. No.	Model CAR60086 Cat. No.	Installation	Description
N/A	N/A	CRP4567	CRP4567	Factory Installed	Chart Recorder (Ink) 6 in. (15.2 cm), seven day inkless recorder, -100°C to +38°C, +2°C resolution Models for CAR300 and CAR40 are stand alone
6383-6A* 6383-6D*	6383-6A* 6383-6D*	FCRP5LE	FCRP6LE	Field Installed**	
N/A	N/A	CR4567	CR4567	Factory Installed	Chart Recorder (Inkless) 6 in. (15.2 cm), seven day inkless recorder, -115°C to +50°C, +5°C resolution
N/A	N/A	FCR500LE	FCR600LE	Field Installed**	
N/A	CO4567	CO4567	CO4567	Factory Installed	CO₂ Backup System Maintains temperature down to -67°C with CO ₂ Models for CAR300 are stand alone
FCO300A* FCO300D*	FCO456LEA* FCO456LED*	FCO456LEA* FCO456LED*	FCO456LEA* FCO456LED*	Field Installed**	
N/A	LN4567	LN4567	LN4567	Factory Installed	LN₂ Backup System Maintains temperature down to -80°C with liquid nitrogen Models for CAR300 are stand alone
FLN300A* FLN300D*	FLN456LEA* FLN456LED*	FLN456LEA* FLN456LED*	FLN456LEA* FLN456LED*	Field Installed**	
S125V20ATL	S125V20ATL	S125V20ATL	S125V20ATL	Factory Installed	Twist Lock Plug
TL125V20A	TL125V20A	TL125V20A	TL125V20A	Field Installed**	NEMA L5-20P for 115 V, 60 Hz
S230V15ATL	S230V15ATL	S230V15ATL	S230V15ATL	Factory Installed	Twist Lock Plug
TL230V15A	TL230V15A	TL230V15A	TL230V15A	Field Installed**	NEMA L6-15P for 208–230 V, 60 Hz
S230V20ATL	S230V20ATL	S230V20ATL	S230V20ATL	Factory Installed	Twist Lock Plug
TL230V20A	TL230V20A	TL230V20A	TL230V20A	Field Installed**	NEMA L6-20P for 208–230 V, 60 Hz

*A = 115 V, 60 Hz (NEMA 5-20 plug), D = 208–230 V, 60 Hz (NEMA 6-15 plug)

**Note: field installed must be installed by a qualified professional

Accessories for Cardinal Health™ -86°C Ultra-Low Temperature Freezers

Model CAR30086 Cat. No.	Model CAR40086 Cat. No.	Model CAR50086 Cat. No.	Model CAR60086 Cat. No.	Description
SK300	SK400	SK500	SK600	Shelf Kit - includes one shelf and shelf support clips
CA17020	CA17020	CA17020	CA17020	Chart paper ink (pack of 50)
N/A	N/A	R3894-6	R3894-6	Chart paper inkless (pack of 50)
AF34567LE	AF34567LE	AF34567LE	AF34567LE	Replacement air filter
CA400159	CA400159	CA400159	CA400159	Replacement back-up battery
TFS6903	TFS6903	TFS6903	TFS6903	Alarm Delay Module —eliminates nuisance alarms due to intermittent or transitory conditions. Adjustable delay requires alarm condition to exist for user defined period before signal is released to monitoring system.

Cold Storage

Freezer Accessories: Ultra-Low Temperature

Racks for Cardinal Health™ -86°C Ultra-Low Temperature Freezers

Cat. No.	Description	Dimensions H x W x D in.	Storage	Model CAR30086	Model CAR40086	Model CAR50086	Model CAR60086
Racks for 2 in. boxes							
			Boxes per rack	25	25	25	25
CA920090	Sliding drawer rack	11.9 x 5.5 x 26.9	Racks per shelf	3	4	5	6
			Racks per freezer	12	16	20	24
			Boxes per freezer	300	400	500	600
Racks for 3 in. boxes							
1950520	Adjustable side access rack	11.6 x 5.4 x 26.75	Boxes per rack	25	25	25	25
			Racks per shelf	3	4	5	6
			Racks per freezer	12	16	20	24
			Boxes per freezer	300	400	500	600
Racks for Microplates							
1950592	Side access rack with locking rod for standard or deepwell	11.9 x 5.5 x 25.7	Boxes per rack	147	147	147	147
			Racks per shelf	3	4	5	6
			Racks per freezer	12	16	20	24
			Boxes per freezer	1764	2352	2940	3528
Cat. No.	Description	Dimensions H x W x D in.	Storage	Chest Freezer Model CARC0386A			
Racks for Chest Freezer							
CA398184	2 in. box rack with locking rod	15.2 x 5.5 x 5.5	Boxes per rack	7			
			Racks per freezer	9			
			Boxes per freezer	63			
CA398185	3 in. box rack	16 x 5.5 x 5.5	Boxes per rack	5			
			Racks per freezer	9			
			Boxes per freezer	45			

Intended Use Statements:

General Purpose Models:

The general purpose -86°C freezers described here are high-performance units for professional use. These products are intended for use as cold storage in research use and as a general purpose laboratory freezer, storing samples or inventory at operating temperatures between -50°C and -80°C. It is not considered a medical device and has therefore not been registered with a medical device regulatory body (e.g., FDA); that is, it has not been evaluated for the storage of samples for diagnostic use or for samples to be re-introduced to the body. This unit is not intended for use in classified hazardous locations, nor to be used for the storage of flammable inventory.

FDA Class II Models:

The -86°C freezers described in this manual are intended for the storage of Frozen Red Blood Cells in 40% glycerol at -65°C for up to 10 years; Frozen Rejuvenated Red Blood Cells at -65°C for up to 10 years; Fresh Frozen Plasma at -65°C for up to 10 years; and Frozen or Cryopreserved Tissue for long term storage: Musculoskeletal Tissue at -40°C or colder, Skin at -40°C or colder and Bone at -40°C or colder.

These products should only be used by authorized and adequately trained personnel. It is considered a medical device and has therefore been listed with medical device regulatory body FDA and is considered a Class II medical device by the FDA. This product is listed under product code KSE, regulation number 864.9700 and is considered 510(K) exempt. This unit is not intended for use in classified hazardous locations, nor to be used for the storage of flammable inventory.

Reference: AABB - Technical Manual 17th Ed., page 273,274. STANDARDS FOR TISSUE BANKING 14th Ed., Section E, E3.300, E3.310, Table E3.331.

Note for clarity: The 'Bone' is the Osteoarticular Graft, a weight bearing allograft with intact articular surfaces, consisting of a joint with associated soft tissue and bone. STANDARDS FOR TISSUE BANKING 14th Ed., Section page 8



DU502VXC



DU702VXC

TwinGuard® Series –86°C Ultra-Low Upright Freezers

PHC CORPORATION OF NORTH AMERICA* - The patented TwinGuard –86°C upright freezer is powered by a dual cooling system offering highest level of sample protection through the use of two independent refrigeration systems that maintain –86°C temperature. The two circuits work together for fast temperature recovery, while the secondary system keeps the temperature at –70°C if a service event occurs. Redundant auto-cascade refrigeration systems unique to TwinGuard Series achieve superior temperature stability during initial startup and maintain uniformity following routine door openings and throughout the steady state.

- Easy to read LCD display allows for easy touchscreen use.
- Display panel includes comprehensive audible and visual warnings
- Microprocessor controller and alarms
- EZlatch for frequent door openings, simplify one-handed access and control frost associated with extreme temperature differentials.

Specifications:

Temperature range –50°C to –86°C in 1° increments

Power requirements 208–230 V, 1Ø, 60 Hz, NEMA 6-15P, requires NEMA 6-15R receptacle

Shelves 3 adjustable

DU702VXC

Dimensions (W x D x H) Interior 34.3 x 23.6 x 55.1 in., exterior 40.6 x 36.8 x 78.5 in.

DU502VXC

Dimensions (W x D x H) Interior 24.8 x 23.6 x 55.1 in., exterior 31.1 x 34.7 x 78.5 in.

DU302VXPA

Dimensions (W x D x H) Interior 19.3 x 23.6 x 48.4 in., exterior 26.4 x 34.7 x 72.4 in.

*Formerly known as Panasonic Healthcare Corporation of North America

Cat. No.	Mfr. No.	Description	Qty.
DU302VXPA	MDF-DU302VX-PA	12.7 cu. ft.	1/ea
DU502VXC	MDF-DU502VXC-PA	18.6 cu. ft.	1/ea
DU702VXC	MDF-DU702VXC-PA	25.7 cu. ft.	1/ea

Cold Storage

Freezers: Ultra-Low Temperature



MDFU76VAPA



MDF-U76VC

VIP® Series –86°C Ultra-Low Temperature Upright Freezers

PHC CORPORATION OF NORTH AMERICA* - The VIP® ultra-low temperature freezers represent the complete combination of refrigeration, control, alarm configuration, monitoring, and accessibility for product safety at –86°C. Well-known for its reliability, energy savings, and performance, the VIP Series is ideal for material storage in biorepositories, hospitals, clinics, and medical research facilities.

Integrated microprocessor-based controller and LED display include comprehensive setpoint, alarms, monitoring, diagnostic and communication features. VIP vacuum insulation panels with compressors specifically designed for ultra-low temperature applications, assures temperature uniformity ($\pm 5^\circ\text{C}$). The robust refrigeration system is powered by specially engineered compressors. The system provides dependable cooling by balancing temperature performance and energy management.

Specifications:

Temperature range –50°C to –86°C in 1°C increments

Shelves 3

MDFU76VAPA and MDF-U76VC

Interior dimensions (W x D x H) 34.3 x 23.6 x 55.1 in.

Exterior dimensions (W x D x H) 39.8 x 34.3 x 78.3 in.

*Formerly known as Panasonic Healthcare Corporation of North America

Cat. No.	Mfr. No.	Description	Qty.
MDFU76VAPA	MDF-U76VA-PA	25.7 cu. ft. - 115 V	1/ea
MDF-U76VC	MDF-U76VC-PA	25.7 cu. ft. - 208–230 V	1/ea

Thermo Scientific™ Revco™ DxF Series –40°C Upright Freezers

THERMO FISHER SCIENTIFIC - Revco™ DxF Series upright freezers are designed for daily sample protection and dependability for applications requiring –10°C to –40°C.

- Easy-to-use, knee-level microprocessor control
- Five interior compartment doors
- Galvaneel interior in three sizes (13, 17.3 and 23 cu. ft.)
- Heavy-gauge, cold-rolled steel exterior construction
- 5 in. foamed-in-place, polyurethane insulation
- Optional, built-in chart recorder
- Sturdy, solid, stainless steel shelving
- Vacuum relief port
- Power management system with low voltage surge protection and buck/boost

Cat. No.	Mfr. No.	Description	Qty.
DxF24040A	DxF24040A	13 cu. ft. - 115 V, 60 Hz (240 box)	1/ea
DxF24040D	DxF24040D	13 cu. ft. - 208–230 V, 60 Hz (240 box)	1/ea
DxF32040A	DxF32040A	17.3 cu. ft. - 115 V, 60 Hz (320 box)	1/ea
DxF32040D	DxF32040D	17.3 cu. ft. - 208–230 V, 60 Hz (320 box)	1/ea
DxF40040A	DxF40040A	23 cu. ft. - 115 V, 60 Hz (400 box)	1/ea
DxF40040D	DxF40040D	23 cu. ft. - 208–230 V, 60 Hz (400 box)	1/ea



DxF40040A

Thermo Scientific™ Revco™ ExF Series –86°C Upright Freezers

THERMO FISHER SCIENTIFIC - Revco™ ExF Series upright freezers are designed for daily sample protection and dependability for applications requiring –50°C to –86°C.

- Easy-to-use, eye-level microprocessor control
- Five interior compartment doors
- Stainless steel interior in four sizes (13, 17.3, 23 and 28 cu. ft.)
- Heavy-gauge, cold-rolled steel exterior construction
- 5 in. foamed-in-place, polyurethane insulation
- Optional, built-in chart recorder
- Sturdy, solid, stainless steel shelving
- Vacuum relief port
- Power management system with low voltage surge protection and buck/boost

Cat. No.	Mfr. No.	Description	Qty.
ExF24086A	ExF24086A	13 cu. ft. - 115 V (240 box)	1/ea
ExF24086D	ExF24086D	13 cu. ft. - 208–230 V (240 box)	1/ea
ExF32086A	ExF32086A	17.3 cu. ft. - 115 V (320 box)	1/ea
ExF32086D	ExF32086D	17.3 cu. ft. - 208–230 V (320 box)	1/ea
ExF40086A	ExF40086A	23 cu. ft. - 115 V (400 box)	1/ea
ExF40086D	ExF40086D	23 cu. ft. - 208–230 V (400 box)	1/ea
ExF60086D	ExF60086D	28 cu. ft. - 208–230 V (600 box)	1/ea



ExF40086A

Cold Storage

Freezers: Ultra-Low Temperature

Thermo Scientific™ Revco™ RLE Series –86°C Ultra Low Temperature Freezers

THERMO FISHER SCIENTIFIC - Revco™ RLE Series ultra-low freezers feature dependable –80°C storage with energy-savings and sustainability features. New sustainability features include natural refrigerants and water-blown foam, compliant with many sustainability standards. User friendly touch-screen interface and cabinet.

- Low peak variation helps ensure sample protection throughout entire cabinet
- Fast door opening recovery in as little as 13 minutes
- Long warm-up time from –80°C to –50°C in 5 hours
- Easy-to-use set-up wizard, event log, temperature mapping and data downloads
- Touch-screen datalogging and temperature mapping eliminates the need for a separate chart recorder
- Advanced security features: alarm settings, password-protected controller, padlock-compatible doors and optional access card entry
- Ergonomic design: comfortable door handle, eye-level touch-screen and shelf-level placement that do not require floor-level loading of racks
- Five inner doors minimize ambient temperature during sample retrieval
- Four capacities (300, 400, 500 and 600 2-inch box) to accommodate a variety of storage needs and lab footprint specifications

Cat. No.	Mfr. No.	Description	Qty.
RLE30086A	RLE30086A	14.9 cu. ft. - 115 V, 60 Hz (300 box)	1/ea
RLE30086D	RLE30086D	14.9 cu. ft. - 208–230 V, 60 Hz (300 box)	1/ea
RLE40086A	RLE40086A	19.4 cu. ft. - 115 V, 60 Hz (400 box)	1/ea
RLE40086D	RLE40086D	19.4 cu. ft. - 208–230 V, 60 Hz (400 box)	1/ea
RLE50086A	RLE50086A	24.1 cu. ft. - 115 V, 60 Hz (500 box)	1/ea
RLE50086D	RLE50086D	24.1 cu. ft. - 208–230 V, 60 Hz (500 box)	1/ea
RLE60086A	RLE60086A	28.8 cu. ft. - 115 V, 60 Hz (600 box)	1/ea
RLE60086D	RLE60086D	28.8 cu. ft. - 208–230 V, 60 Hz (600 box)	1/ea



RLE50086A

Thermo Scientific™ TSX Series –86°C Ultra-Low Freezers

THERMO FISHER SCIENTIFIC - TSX Series ultra-low freezers are designed to meet the highest standards in reliability, sustainability and temperature management. At the heart of the TSX Series is V-drive technology, designed to adapt to user patterns, substantially reducing energy and HVAC costs without compromising performance. TSX Series freezers are built with natural refrigerants and water-blown foam insulation, compliant with the U.S. EPA's Significant New Alternatives Policy (SNAP), the European Union's F-Gas compliance and other sustainability standards.

- Lifetime V-Drive variable speed compressor warranty*
- Best peak variation of energy-efficient ultra-low freezers: less than 5°C
- Fastest door opening recovery on the market: 17 minutes
- Long warm-up time from –80°C to –50°C at 5.05 hours
- NEW! Easy-to-use set-up wizard, event log, temperature mapping and data downloads
- Eliminate the need for a separate chart recorder with datalogging and temperature mapping features, all exportable via a built-in USB port
- Advanced security features: alarm settings, padlock-compatible doors and optional access card entry
- Ergonomic design: comfortable door handle, eye-level touch-screen and shelf-level placement that doesn't require floor-level loading of racks
- Four capacities (400, 500, 600 and 700, 2-inch box) to accommodate a variety of storage needs and lab footprint specifications

Cat. No.	Mfr. No.	Description	Qty.
TSX40086A	TSX40086A	19.4 cu. ft. - 115 V, 60 Hz (400 box)	1/ea
TSX40086D	TSX40086D	19.4 cu. ft. - 208–230 V, 60 Hz (400 box)	1/ea
TSX50086A	TSX50086A	24.1 cu. ft. - 115 V, 60 Hz (500 box)	1/ea
TSX50086D	TSX50086D	24.1 cu. ft. - 208–230 V, 60 Hz (500 box)	1/ea
TSX60086A	TSX60086A	28.8 cu. ft. - 115 V, 60 Hz (600 box)	1/ea
TSX60086D	TSX60086D	28.8 cu. ft. - 208–230 V, 60 Hz (600 box)	1/ea
TSX70086A	TSX70086A	33.5 cu. ft. - 115 V, 60 Hz (700 box)	1/ea
TSX70086D	TSX70086D	33.5 cu. ft. - 208–230 V, 60 Hz (700 box)	1/ea



TSX60086A

*Lifetime of the compressor is 12 years. Lifetime compressor warranty is void if the unit is not maintained as set forth in the operation and service manuals. U.S. and Canada only.

Freezers: Benchtop/Chest Ultra-Low Temperature

TwinGuard® Series –86°C Ultra-Low Chest Freezer

PHC CORPORATION OF NORTH AMERICA* - The patented TwinGuard –86°C chest freezer is powered by a unique concept of two independent auto-cascade cooling circuits that work together, both independently and concurrently, to provide continuity in stored product protection over a range of real world conditions. Performance down to –86°C is based on integrated complementary refrigeration circuits, robust cabinet design and intuitive smart controls and monitoring. TwinGuard Series freezers are ideal for safe, long term storage of your most high valued products, such as stem cells, embryos, cell lines, rare specimens and other biological materials.

Specifications:

Temperature range –50°C to –86°C in 1°C increments

Power requirements 208–230 V, 60 Hz

Dimensions (W x D x H) Interior 58.3 x 25.2 x 29.8 in.

Exterior 90.6 x 33.3 x 42.1 in.

*Formerly known as Panasonic Healthcare Corporation of North America



Cat. No.	Mfr. No.	Description	Qty.
MDFDC700VX	MDFDC700VXCPA	25.3 cu. ft. freezer	1/ea

VIP® Series –80°C Ultra-Low Chest Freezer

PHC CORPORATION OF NORTH AMERICA* - The VIP® ultra-low temperature freezers represent the complete combination of refrigeration, control, alarm configuration, monitoring, and accessibility for product safety at –80°C. Well-known for its reliability, energy savings, biorepositories, hospitals, clinics, and medical research facilities.

The compact biomedical chest freezer boasts a powerful VIP insulation panel that maximizes storage capacity while keeping temperatures consistently uniform. The uniquely engineered single-compressor system provides higher energy efficiency and more savings annually, all within an ergonomic and compact design.

- VIP insulation composite which results in a highly efficient, thin-walled cabinet
- Microprocessor controller with LED display includes alarms, diagnostic and communication features
- Consistent temperature uniformity of ±5°C

Specifications:

Temperature range –60°C to –80°C in 1°C increments

Interior dimensions (W x D x H) 15.9 x 19.3 x 16.7 in.

Exterior dimensions (W x D x H) 21.7 x 27 x 37.2 in.

*Formerly known as Panasonic Healthcare Corporation of North America



Cat. No.	Mfr. No.	Description	Qty.
MDF-C8V	MDF-C8V1-PA	3 cu. ft. freezer	1/ea

Cold Storage

Freezers: Benchtop/Chest Ultra-Low Temperature

Stirling Ultracold Compact Ultra-Low Freezer

Undercounter/Benchtop/Stackable

STIRLING ULTRACOLD - This ultra-low freezer offers a spacious 3.7 cu. ft. (105 L) cabinet that delivers stable, uniform storage over a range of -20°C to -86°C at a fraction of the operating cost of conventional cascade refrigeration systems.

Using 100% natural refrigerants, it combines the performance of a unique free-piston Stirling engine with an efficient, non-CFC urethane foam and vacuum-insulated cabinet. This permits high-performance ultra-low storage capacity in an undercounter, benchtop or stacked cabinet configuration.

The ultra-low freezer operates on standard 115 V, 60 Hz AC, and can plug into any outlet, eliminating the cost of converting an outlet to 240 V. The self-modulating cooling system demands minimal power at ambient start-up and decreases for most efficiency when setpoint is reached.

The integral control and alarm system includes an intuitive graphic user interface to display operating temperature, reserve cooling capacity, status functions and performance metrics for field troubleshooting. Secure touchpad inputs permit secure programming for all control setpoints.



SU105UE shown with optional racks.

Cat. No.	Mfr. No.	Description	Qty.
SU105UE	SU105UE	3.7 cu. ft. freezer	1/ea
SU-018000	SU-018000	120 V power cord - 7.4 ft.	1/ea
SU-019000	SU-019000	240 V power cord - 9.8 ft.	1/ea

Stirling Ultracold Shuttle™ Portable Ultra-Low Temperature Freezer

Ideal for Clinical Trials

STIRLING ULTRACOLD - The Shuttle™ is the only portable and deployable solution available today for bringing ULT storage to the patient. With its innovative free-piston Stirling engine cooling technology, this small, lightweight, and efficient ULT freezer is ideal for clinical trials and biologic drug delivery.

Imagine the confidence of knowing that your biologic drugs or specimens are always safely preserved at clinical sites, and feel certain that your samples are staying at ultra-low temperatures. The unique Shuttle makes that possible.

- Portable, reliable, continuous ULT operation. Just like our other ULT freezers, the Shuttle has a wide temperature range of -20°C to -86°C
- Weighs only 46 lbs. (net weight, empty), it can easily and inexpensively be shipped anywhere in the world as a parcel
- Built-in universal power supply, so the Shuttle can plug into any AC or 12 V DC outlet worldwide
- 100% natural refrigerant. There are no special export shipping classifications required
- No compressors to fail, only 2 moving parts
- Holds up to 18 - 2 in. boxes in very small footprint



Cat. No.	Mfr. No.	Description	Qty.
ULT25NE	ULT-25NE	0.9 cu. ft. portable freezer	1/ea
SU-018000	SU-018000	120 V power cord - 7.4 ft.	1/ea
SU-019000	SU-019000	240 V power cord - 9.8 ft.	1/ea
T25-6D0000	ULT25-6D0000	12 V Mobile/DC power cord - 10 ft.	1/ea

Freezers: Benchtop/Chest Ultra-Low Temperature

Thermo Scientific™ Revco™ -80°C Benchtop Freezers

THERMO FISHER SCIENTIFIC - The Revco™ -80°C Benchtop Freezer is ideal for personal or clinical trial applications. These benchtop freezers offer a full 1 cu. ft. (28 L) capacity and help ensure the protection of your valuable samples.

- Air-cooled refrigeration systems are engineered to maintain design temperatures in warm 32°C (90°F) ambient conditions. (factory setpoint -30°C)
- Solid-state control system with adjustable temperature setpoint
- Digital temperature display resolution to 1°C
- Compact 25.2 x 30.7 in. (640 x 781 mm) footprint
- Industrial-grade hermetically-sealed refrigeration compressors
- All-steel cabinet with high-impact epoxy finish for easy cleaning
- 4 in. (102 mm) foamed-in-place, CFC-free urethane insulation to protect product against high ambient conditions
- Heavy-duty counterbalanced lid with key lock
- Thermal interior sublid
- Digital temperature display resolution to 1°C
- Push button setpoint display
- Key operated main power switch
- Integrated preset overtemperature safety alarm with battery back-up and audible warning of temperature deviation
- Exterior alarm contacts for connection to remote monitoring system



Cat. No.	Mfr. No.	Description	Qty.
R3928-185A	ULT185-5-A	Benchtop freezer	1/ea

Thermo Scientific™ Revco™ CxF Series -40°C and -86°C Ultra-Low Temperature Chest Freezers

THERMO FISHER SCIENTIFIC - Revco™ CxF Series chest freezers provide versatile and reliable sample storage. These chest freezers deliver all the sample protection features of the ExF freezers in four convenient sizes and are available with a full range of racking solutions for maximum sample storage.

- Easy-to-use microprocessor control panel
- Message center: 12-character alphanumeric LED displays setpoints, system status and alarm messages
- Access code to ensure setpoint security
- Heavy gauge, cold-rolled steel exterior construction with a powder-coat paint finish that resists chipping and rust and ergonomic, lockable door handle
- 5 in. (127 mm) foamed-in-place, polyurethane insulation
- Optional built-in chart recorder or data logger for continuous monitoring
- Easy-to-remove air filter
- Inner sub-lids protect bulk samples from ambient exposure during single sample retrievals
- Optional CO₂ or LN₂ safety back-up system for additional protection in the event of a power or mechanical failure
- RS-232 and 4-20 milliamp analog outputs for independent monitoring devices and recorders



ULT390-10A

Cat. No.	Mfr. No.	Description	Qty.
-40°C Ultra-Low Temperature Chest Freezers			
ULT350-10A	ULT350-10-A	3 cu. ft. - 115 V, 60 Hz	1/ea
ULT135010A	ULT1350-10-A	12.7 cu. ft. - 115 V, 60 Hz	1/ea
ULT175010A	ULT1750-10-A	17 cu. ft. - 115 V, 60 Hz	1/ea
ULT205010A	ULT2050-10-A	20 cu. ft. - 115 V, 60 Hz	1/ea

Cat. No.	Mfr. No.	Description	Qty.
-86°C Ultra-Low Temperature Chest Freezers			
ULT390-10A	ULT390-10-A	3 cu. ft. - 115 V, 60 Hz	1/ea
ULT139010A	ULT1390-10-A	12.7 cu. ft. - 115 V, 60 Hz	1/ea
ULT139010D	ULT1390-10-D	12.7 cu. ft. - 230 V, 60 Hz	1/ea
ULT179010A	ULT1790-10-A	17 cu. ft. - 115 V, 60 Hz	1/ea
ULT209010A	ULT2090-10-A	20 cu. ft. - 115 V, 60 Hz	1/ea

Constant Temperature

Hot Plates



Digital Hotplates, Hotplate Stirrers and Stirrers

BENCHMARK - These hotplates, stirrers and hotplate-stirrers feature an exceptionally durable, chemical resistant, white ceramic work surface. The space-efficient design (7 x 10.5 in. footprint) and square 6.5 in. work surface makes them ideal for use on crowded benchtops, biological safety cabinets and in bio-hoods. Advanced microprocessor controls allow quick, precise adjustment of speed and temperature. The large, backlit LCD display provides constant visualization of the speed and temperature while a safety LED indicates when the top plate is above 50°C. In addition, an optional probe is available for applications that require precise temperature control. When connected, the probe provides direct feedback to the microprocessor, which continuously adjusts and maintains the selected temperature in the sample within ±1°C. An optional support rod (H3760-ROD) is available for mounting thermometers, temperature probes, etc.

Specifications:

Speed range 200 to 1,500 rpm
 Temperature range Ambient +5°C to 380°C
 Max stirring capacity 2.5 L
 Power requirement 115 V or 230 V, 50-60 Hz, 500 W
 Platform 6.5 x 6.5 in.
 Dimensions (W x D x H) 7 x 10.5 x 4 in.

Cat. No.	Mfr. No.	Description	Qty.
C3158BS	C3158	Digital hotplate, 115 V	1/ea
C3159BS	C3159	Digital hotplate, 230 V	1/ea
C3156BS	C3156	Digital hotplate magnetic stirrer, 115 V	1/ea
C3157BS	C3157	Digital hotplate magnetic stirrer, 230 V	1/ea
C3160BS	C3160	Magnetic Stirrer, 115 V	1/ea
C3161BS	C3161	Magnetic Stirrer, 230 V	1/ea
C3162BS	C3162	Rod for Hotplate/Stirrer (H3760 Series)	1/ea
C3163BS	C3163	Temperature Probe (H3760 Series)	1/ea
C3164BS	C3164	Clamp set for H3760 series	1/ea

Corning® Stirring Hot Plate

CORNING LIFE SCIENCES - The Corning® stirring hot plate has a 5 x 7 in. Pyroceram® top, digital temperature and stirring speed displays. Designed to operate on 120 V, 60 Hz. Microprocessor maintains consistent and repeatable temperature settings from 5°C (if ambient temperature is 0°C or lower) up to 550°C. Digital LED temperature display is adjustable in 5°C increments and blinks until set temperature is reached. Exclusive closed-loop stirring control monitors and regulates the stirring speed from 60–1,150 rpm for aqueous, viscous, or semi-solid solutions. 2-year warranty. UL and cUL approved.



Cat. No.	Mfr. No.	Description	Qty.
C6795-420D	6795-420D	Stirring hot plate	1/ea

Thermo Scientific™ Micro Hot Plate

THERMO FISHER SCIENTIFIC - Use this compact hot plate where single or multiple heat source is required. Ideal for volumes under 500 mL. Hot plate provides stepless temperature control from 38°C to 371°C ±5°. Nickel-chromium element is embedded in refractory plate. Case is perforated for heat dissipation. Complete with three-conductor appliance cord with three-prong plug. Dimensions (H x D): 3 3/4 x 3 1/2 in., top plate 3 3/4 in. dia. Operates on 120 V, 50/60 Hz, 2.7 A, 325 W at 371°C. UL listed.



Cat. No.	Mfr. No.	Description	Qty.
H2155	HP2305BQ	Micro hot plate	1/ea

Talboys Advanced Hot Plates

TROEMNER - Talboys Advanced Hot Plates deliver accurate and repeatable results. Excellent temperature uniformity. These units are microprocessor-controlled and have an LED display for temperature. Control panel features easy-to-use controls that allow users to dial in adjustments. Rear housing features an integral support rod holder with locking knob to accept the optional support rod and clamp kit.



Specifications:

Maximum capacity 600 mL
 Temperature range Ambient +5°C to 400°C
 Temperature stability* ±2%

Cat. No.	Mfr. No.	Description	Qty.
TA4AHPUSA	984TA4AHPUSA	4 x 4 in. aluminum top plate	1/ea

*Below 100°C ±2°C. Environmental and sample conditions permitting.

Constant Temperature

Ovens

Gravity Convection Ovens

BOEKEL - These durable yet lightweight reach-in ovens are suited for bacteriological, clinical, educational and industrial laboratory needs. The exterior is constructed of steel and finished in gray baked enamel. The inside chamber is aluminum and is insulated from the outer chamber with glass wool insulation.

These units are designed for continuous temperature uniformity, with natural air convection that allows them to reach the maximum temperature within ½ hr. of the start-up time. All models are equipped with intake/exhaust vents, a cool handle, a neon pilot light and an on/off switch. All ovens utilize bimetallic thermostats and reach a maximum temperature of 215°C in 30 minutes. Ovens include 2 removable zinc-plated steel shelves, a thermometer with holder and a 6 ft. cord with grounded plug. Ovens operate on 115 V. **Note:** Not for use in melting paraffin wax or any other combustible or flammable materials and/or solvents.

Specifications:

Temperature range 100°C to 215°C

Temperature control ±3°C

Dimensions (W x D x H)

N8412-1

Chamber 14 x 15 x 14 in.

Exterior 16½ x 19 x 21¼ in.

N8414-1

Chamber 17 x 15 x 18½ in.

Exterior 19½ x 18¾ x 25¼ in.



Cat. No.	Mfr. No.	Description	Qty.
N8412-1	107905	1.6 cu. ft. - 115 V, 1,200 W power requirement	1/ea
N8414-1	107801	2.7 cu. ft. - 115 V, 1,500 W power requirement	1/ea

Thermo Scientific™ Heratherm™ General Protocol Oven

THERMO FISHER SCIENTIFIC - The Heratherm™ General Protocol table top ovens are perfect for routine daily work, providing the ideal heating and drying solution for your applications. Inner chambers made from corrosion-resistant stainless steel with rounded corners for easy cleaning. Large, easy to view vacuum fluorescent display. Simple, microprocessor-based touch button controls. Doors can be opened over 180° making these units easy to access. Automatic overtemperature alarm system for safety. Built-in timer. Low energy consumption. Includes two wire mesh shelves and access port.



Specifications:

Temperature range 50°C to 250°C

Temperature stability ±0.3°C

Number of shelves 2 supplied

Dimensions (D x W x H) interior 14.5 x 13.9 x 20 in.

Dimensions (L x W x H) exterior 22.2 x 20.9 x 28.3 in.

Cat. No.	Mfr. No.	Description	Qty.
Mechanical convection oven			
51028121	51028121	2.3 cu. ft. - 120 V, 60 Hz, 1440 W, 12 A	1/ea

Constant Temperature

Ovens



Thermo Scientific™ Heratherm™ Large Capacity General Protocol Ovens

THERMO FISHER SCIENTIFIC - Heratherm™ Large Capacity General Protocol Ovens have been designed with your need for larger samples or high sample volume in mind. The General Protocol Ovens provide high capacity for day-to-day drying and heating applications. Inner chambers made from corrosion-resistant stainless steel with rounded corners for easy cleaning. Large, easy to view vacuum fluorescent display. Simple, microprocessor-based touch button controls. Doors can be opened over 180° making these units easy to access contents. Automatic overtemperature alarm for safety. Built-in timer. Low energy consumption.

- Gravity convection technology for gentle heating and drying
- Great footprint/volume ratio and optimal use of chamber with flexible shelving system

Specifications:

Temperature range 50°C¹ to 250°C
 Temperature deviation over time at 150°C ± 0.5°C
 Number of shelves 2 supplied, 39 max

Spatial temperature deviation at 150°C

51029327 ±3°C
 51029339 ±3.7°C

Dimensions (W x H x D)

51029327 chamber; 21.4 x 51.5 x 23.2 in., exterior²; 30.6 x 60.8 x 30.3 in.
 51029339 chamber; 39.5 x 51.5 x 23.2 in., exterior²; 49.6 x 60.8 x 30.3 in.

Cat. No.	Mfr. No.	Description	Qty.
Gravity convection oven			
51029327	51029327	14.8 cu. ft. - 208–240 V, 60 Hz, 2,640 W, 11 A	1/ea
51029339	51029339	27.3 cu. ft. - 208–240 V, 60 Hz, 3,240 W, 13.5 A	1/ea
50135245	50135245	Wire mesh shelf for (51029327), includes 2 shelf supports, 20.79 x 21.06 in.	1/ea
50135246	50135246	Wire mesh shelf for (51029339), includes 2 shelf supports, 38.74 x 21.06 in.	1/ea

¹ Temperatures as low as ambient +10°C can be selected – requires open damper and no additional heat in unit.

² Depth of handle/display not included in depth (2.6 in.); casters not included in height (4.3 in.) – required distance to rear wall: 4.7 in.

Constant Temperature

Ovens

Thermo Scientific™ Heratherm™ Large Capacity Advanced Protocol Ovens

THERMO FISHER SCIENTIFIC - Heratherm™ Large Capacity Advanced Protocol Ovens offer mechanical convection technology for faster drying and better temperature stability and uniformity. Greater flexibility, accuracy and dependability are provided through a wide range of additional features.

- 2-speed fan for application flexibility
- Access port for introduction of external sensors
- Programmable controller for pre-defined temperature ramps
- Sophisticated daily/weekly/real time timer

Specifications:

Temperature range 50°C¹ to 250°C²
Number of shelves 2 supplied, 39 max

Spatial temperature deviation at 150°C

51029329, 51029330 ±2.1°C
51029343, 51029344 ±3.1°C

Temperature deviation over time at 150°C

51029329, 51029330 ±0.3°C
51029343, 51029344 ±0.4°C

Dimensions (W x H x D)

51029329, 51029330 chamber; 21.4 x 52.6 x 21.5 in. exterior²; 30.6 x 60.8 x 30.3 in.
51029343, 51029344 chamber; 39.5 x 52.5 x 21.5 in. exterior²; 49.6 x 60.8 x 30.3 in.



Mechanical convection oven - coated exterior

Cat. No.	Mfr. No.	Description	Qty.
51029329	51029329	14 cu. ft. - 208–240 V, 60 Hz, 3,240 W, 13.5 A	1/ea
51029343	51029343	25.8 cu. ft. - 208–240 V, 60 Hz, 3,480 W, 14.5 A	1/ea
50135245	50135245	Wire mesh shelf for (51029329), includes 2 shelf supports, 20.79 x 21.06 in.	1/ea
50135246	50135246	Wire mesh shelf for (51029343), includes 2 shelf supports, 38.74 x 21.06 in.	1/ea

Mechanical convection oven - stainless steel exterior

51029330	51029330	14 cu. ft. - 208–240 V, 60 Hz, 3,240 W, 13.5 A	1/ea
51029344	51029344	25.8 cu. ft. - 208–240 V, 60 Hz, 3,480 W, 14.5 A	1/ea

¹ Temperatures as low as ambient +15°C can be selected – requires open damper and no additional heat in unit

²With low voltage (216 V) and open damper max temperature is 235°C

³ Depth of handle/display not included in depth (2.6 in.); casters not included in height (4.3 in.) – required distance to rear wall: 4.7 in.

Constant Temperature

Thermo Scientific™ Precision® Compact Gravity Convection Ovens

THERMO FISHER SCIENTIFIC - Precision® compact heating and drying ovens conserve valuable benchtop space.

Double-wall interior with 2.5 cm (1 in.) silica-based insulation and powder-coated cold-rolled steel exterior.

Pilot light visually indicates oven operation status.

Feature mechanical or gravity convection models that provide the ideal choice for any application. 48 L (1.7 cu. ft.) capacity.

Gravity convection models

- Gentle drying with low turbulence: air is moved vertically through chamber to heat samples
- Preset high-temperature safety bimetallic thermostat ensures overtemperature protection
- Aluminum chamber
- Interior (D x W x H): 11.5 x 16 x 16.2 in.
- Exterior (L x W x H): 13.5 x 18.5 x 22.5 in.

Mechanical convection models

- Uniform heating, precise temperature control and fast drying
- Hydraulic thermostat and LED display
- Stainless-steel chamber
- Interior (D x W x H): 11.5 x 16 x 16 in.
- Exterior (L x W x H): 18.4 x 25 x 15.6 in.



Cat. No.	Mfr. No.	Description	Qty.
N8222-25	PR305225G	Gravity convection oven - 120 V, 60 Hz	1/ea
N8222-27	PR305225M	Mechanical convection oven - 120 V, 60 Hz	1/ea

Constant Temperature

Water Baths and Accessories



myBath™ Digital Water Baths

BENCHMARK - The myBath™ series water baths with easy to use controls allow the user to digitally select and monitor settings. Adjustable in 0.1°C increments, the temperature is shown on a large, 3-digit display. The proprietary Quik-CAL™ feature allows for simple, in-lab calibration. High efficiency insulation maintains temperature stability and uniformity within the bath, while keeping the housing cool to the touch.

All myBath™ models feature seamless, stainless steel chambers for easy cleaning and long life. The chambers resist rust and have no corners to collect dirt or contamination. The larger 8 L and 12 L units have drains for hassle-free water changes.

The 4 L, 8 L, and 12 L models include a see-through cover that can be removed, or flipped back on a rear hinge to conserve bench space. The lid's gabled design will divert condensation to the front and back of the bath, away from samples. Racks are available to accommodate 1.5/2 mL, 15 mL and 50 mL tubes within the 4 L, 8 L and 12 L baths. The myBath™ 4 L is supplied with all three racks.

Specifications:

Temperature range Ambient +5°C to 100°C

Temperature accuracy 2 L, 4 L: ± 0.2°C at 37°C
8 L, 12 L: ± 0.5°C at 37°C

Temperature uniformity ± 0.2°C at 37°C

Power requirement 115 V or 230 V, 50-60 Hz, 250-700 W

Cat. No.	Mfr. No.	Description	Qty.
C3142BS	C3142	2 L digital water bath, 115 V	1/ea
C3143BS	C3143	2 L digital water bath, 230 V	1/ea
C3144BS	C3144	4 L digital water bath, 115 V, includes tube racks for 1.5, 2, 15 and 50 mL tubes	1/ea
C3145BS	C3145	4 L digital water bath, 230 V	1/ea
C3146BS	C3146	8 L digital water bath, 115 V	1/ea
C3147BS	C3147	8 L digital water bath, 230 V	1/ea
C3148BS	C3148	12 L digital water bath, 115 V	1/ea
C3149BS	C3149	12 L digital water bath, 230 V	1/ea
C3150BS	C3150	Test tube rack for 40 x 0.5 mL tubes	1/ea
C3151BS	C3151	Test tube rack for 48 x 1.5/2 mL tubes	1/ea
C3152BS	C3152	Test tube rack for 41 x 15 mL tubes	1/ea
C3154BS	C3154	Test tube rack for 76 x 15 mL tubes	1/ea
C3153BS	C3153	Test tube rack for 15 x 50 mL tubes	1/ea
C3155BS	C3155	Test tube rack for 30 x 50 mL tubes	1/ea



Shaking Water Bath

BENCHMARK - This compact shaking water bath utilizes the well proven, beltless motor drive system with the addition of precision temperature control up to 80°C. The seamless, stainless steel chamber has a 12-liter capacity. The unit is supplied complete with a universal spring platform for securing 15 and 50 mL test tubes, as well as Erlenmeyer flasks and media bottles up to 1 liter. A hinged and removable lid is also included to reduce energy waste, help prevent splashing and divert condensation away from samples. Easy to use controls allow the user to digitally select and monitor time, temperature and shaking speed, while a constant feedback system helps ensure accuracy over each parameter. Optional test tube racks are available for microtubes and custom designed racks can also be made available by request.

Specifications:

Temperature range Ambient +5°C to 80°C

Temperature accuracy ±0.3°C at 37°C

Temperature uniformity ± 0.2°C at 37°C

Shaking speed range 30 to 200 rpm

Platform dimensions 6.5 x 8 in.

Dimensions: (W x D x H) 12.2 x 13.25 x 12 in.

Power requirement 115 V or 230 V, 50-60 Hz, 300 W

Cat. No.	Mfr. No.	Description	Qty.
C3209BS	C3209	SB-12L Shaking Water Bath, 115 V	1/ea
C3210BS	C3210	SB-12L Shaking Water Bath, 230 V	1/ea
C3212BS	C3212	Optional rack for 0.5 mL	1/ea
C3211BS	C3211	Optional rack for 1.5/2 mL	1/ea

Constant Temperature

Water Baths and Accessories



Boekel Hot Tubs General-Purpose Water Baths

BOEKEL - These unstirred water baths offer excellent performance and are ideal for general lab applications. They feature a PID controller for easy temperature selection, rapid heat-up and excellent stability ($\pm 0.1^\circ\text{C}$). You can program the timer up to 99 hrs., 59 min. The baths will stop heating when the timed mode is complete. The water baths also feature a seamless passivated stainless steel tank and include a stainless steel diffuser tray/shelf. Easy operation instructions are clearly printed on the front of each unit. The temperature can be set in 0.1°C increments up to 100°C . These baths can also be used as a boiling water bath. Each unit is supplied with a polycarbonate lid. A stainless steel gabled lid, available separately, is required when you place the unit in the boiling mode.

Specifications:

Power requirements 115 V, 50/60 Hz

PB-600A - dimensions (W x L x H)

Tank 11.75 x 6 x 5.5 in.

Overall 13.25 x 8.25 x 9.88 in.

PB-1400A - dimensions (W x L x H)

Tank 11.75 x 12.75 x 5.75 in.

Overall 13.25 x 15.13 x 9.63 in.

PB-2800A - dimensions (W x L x H)

Tank 11.75 x 20 x 7.5 in.

Overall 13.25 x 22.13 x 11.63 in.

Cat. No.	Mfr. No.	Description	Qty.
PB-600A	290100	6 L volume - 360 W power requirement	1/ea
PB-1400A	290200	14 L volume - 700 W power requirement	1/ea
PB-2800A	290300	28 L volume - 1,400 W power requirement	1/ea

TempaChek™-LC Liquid Crystal Thermometer

HEALTHMARK INDUSTRIES - The TempaChek™-LC is a liquid crystal thermometer which can be immersed in a liquid bath. With the adhesive back, the thermometer can be mounted to the side of the bath, below the water line. This inexpensive and reusable thermometer will display the real-time temperature of the bath, providing valuable feedback about the appropriateness of the bath temperature when compared to the temperature recommended by the detergent manufacturer.



www.hmark.com

Cat. No.	Mfr. No.	Description	Qty.
TEMPACHKLC	TEMPACHEK-LC	Liquid crystal thermometer	1/ea

Constant Temperature

Water Baths and Accessories

Lab Armor® Beads

LAB ARMOR - Lab Armor® Beads are small, dry, metallic thermal beads designed to replace water in laboratory water baths and ice in ice buckets.



- Stay dry and protected from waterborne microbial contaminants
- Hold capped and non-watertight vessels in place without racks or accessories
- Use less energy than water
- Don't require germicides
- Eliminate warm-up time and make lab experiments easy and repeatable
- Made from recyclable material

Cat. No.	Mfr. No.	Description	Qty.
42370-002	42370-002	2 liters	1/ea
42370-004	42370-004	4 liters	1/ea
42370-008	42370-008	8 liters	1/ea



Water Bath

LW SCIENTIFIC - This Water Bath creates a constant temperature with an open reservoir and immersion circulator, ideal for heating temperature-sensitive samples. The stainless-steel reservoir is seamless, eliminating the possibility of rust and leaks, and the rounded corners are easy to clean. The control unit achieves the desired temperature quickly and maintains a constant temperature to prevent sample overheating. Select desired setting with the touch-pad digital controller, and view the actual temperature on the red LED display. The compact design and stainless-steel reservoir make this product a must for every lab.

Specifications:

Temperature:

- Range Ambient + 5°C to 100°C
- Sensor 100 ohm Platinum RTD
- Stability ±0.2
- Dimensions (H x W x D) 8 x 13 x 11 in.
- Power requirements 110 V

Cat. No.	Mfr. No.	Description	Qty.
BL10LCSSD1	WBL-10LC-SSD1	Water Bath - 10 liter	1/ea
W3600-1	WBL-20LC-SSD1	Water Bath - 20 liter	1/ea



Thermo Scientific™ Precision™ Circulating Water Baths

THERMO FISHER SCIENTIFIC - Precision™ Circulating Water Baths are an ideal choice when temperature uniformity and control are particularly critical, as when working with enzymes or in serological applications. Available in three capacities 19 L, 35 L and 89 L with stainless steel gable cover.

- Achieve enhanced temperature uniformity with perimeter-directed water flow
- Easily clean and maintain bath with coil-free internal design
- Optimize scheduling with auto-on and auto-off timers
- Accommodate taller labware with new hinged lid and extended height
- Help prevent bath overheating and damage with low-fluid protection
- Easily operate and monitor with icon-based graphical display
- Protect your work with audible alarms
- Baths include stainless steel gable covers, diffuser tray and rubber duck
- UL Listed and CE Marked; US FDA Class I Medical Device

Specifications:

- Temperature range Ambient + 5°C to 100°C
- Temperature stability ±0.1°C at 37°C*
- Temperature uniformity ±0.05°C at 37°C*
- Electrical requirements 100–115 V, 200–230 V, 50/60 Hz

Cat. No.	Mfr. No.	Description (L x W x H)	Qty.
TSCIR19	TSCIR19	19 liter - 12 x 15.3 x 7.6 in. work area	1/ea
TSCIR35	TSCIR35	35 liter - 12 x 27.3 x 7.6 in. work area	1/ea
TSCIR89	TSCIR89	89 liter - 19 x 36 x 9.5 in. work area	1/ea

*Uniformity and stability tests were performed with cover installed and ambient controlled to ±1°C.

Constant Temperature

Water Baths and Accessories



Thermo Scientific™ Precision™ General Purpose Water Baths

THERMO FISHER SCIENTIFIC - Precision™ General Purpose Water Baths are rugged, high performance baths that are designed to maintain water temperature from ambient to 100°C. Ideal for a wide range of lab applications. Over-temperature safety circuitry is designed to prevent thermal runaway, while new auto-on and auto-off timers allow you to optimize operation schedules. Benefit from outstanding chemical and corrosion resistance with epoxy powder-coated exterior, and easily clean the chamber with its seamless stainless-steel interior.

- Smaller footprint, frees up valuable benchtop space
- Advanced microprocessor controller for extended functionality
- Protect your work with audible alarms
- Save commonly used settings with four temperature presets
- Baths come with clear polycarbonate gable cover, diffuser tray, drain hose and rubber duck
- UL Listed and CE Marked; US FDA Class I medical device
- Includes a setting for thermal beads*

Specifications:

Temperature range Ambient to 100°C

Temperature stability ±0.1°C at 37°C**

Temperature uniformity ±0.2°C at 37°C**

Electrical requirements 100–115 V, 200–230 V, 50/60 Hz

Cat. No.	Mfr. No.	Description (L x W x H)	Qty.
TSGP05	TSGP05	5 liter - 6.1 x 11.8 x 5.9 in. work area	1/ea
TSGP10	TSGP10	10 liter - 11.9 x 13 x 5.9 in. work area	1/ea
TSGP20	TSGP20	20 liter - 11.7 x 19.7 x 5.9 in. work area	1/ea
TSGP28	TSGP28	28 liter - 11.7 x 19.7 x 7.9 in. work area	1/ea

*Thermal beads do not provide the same performance as water; see manual for additional instructions.

**Uniformity and stability tests were performed with cover installed and ambient controlled to ±1°C.



Thermo Scientific™ Precision™ Shaking Water Baths

THERMO FISHER SCIENTIFIC – Precision™ Shaking Water Baths support a range of sensitive life science and QA/QC applications, from warming fragile reagents to tissue culturing and genetics sequencing. Easily clean and maintain your bath with new coil-free interior. Precision Shaking Water Baths are available in 15 L and 27 L capacities.

The Precision shallow form shaking bath has a capacity of 15 L with a removable tray that provides a depth of 3.5 in (8.9 cm) for use with smaller sample containers.

- Optimize scheduling with auto-on and auto-off timers
- Help prevent bath overheating and damage with low-fluid protection
- Four temperature and shaking speed presets
- Help protect your work with audible alarms
- Accommodate taller labware with new hinged lid and extended height
- Features next-generation shaker motor
- Baths come with stainless steel gable cover, shaking tray and rubber duck
- Adjustable shaking speed from 30 to 200 oscillations per minute
- UL Listed and CE Marked; US FDA Class I medical device

Specifications:

Temperature range Ambient + 5°C to 100°C

Temperature stability ±0.1°C at 37°C*

Temperature uniformity ±0.05°C at 37°C*

Electrical requirements 100–115 V, 200–230 V, 50/60 Hz

Cat. No.	Mfr. No.	Description (L x W x H)	Qty.
TSSWB15	TSSWB15	15 liter - 11.5 x 12 x 6.5 in. work area	1/ea
TSSWB15S	TSSWB15S	15 liter (shallow) - 11.5 x 12 x 3.5 in. work area	1/ea
TSSWB27	TSSWB27	27 liter - 11.5 x 24 x 6.5 in. work area	1/ea

*Uniformity and stability tests were performed with cover installed and ambient controlled to ±1°C.

Blood Draw Chairs



Blood Drawing Chairs

CARDINAL HEALTH - These chairs are compression-molded, nylon-filled polyester chair(s) with a dry powder, glacier white epoxy-coated and 1 in. square tubular steel frame. Includes type 304 stainless steel foot rest, and molded urethane padded arm with integral coating and gas-assist arm lift mechanism. The arm easily adjusts to fit any size patient and is angled to support the patient's arm in a fully extended position for easier venipuncture. The elevated seat on these chairs places the patient at the ideal height to allow a blood draw with limited back strain on the technician. Ten-year limited warranty on materials and workmanship.* Weight capacity is 450 lbs. (204 kg). Shipping weight 58 lbs. (26 kg). Some assembly required. Dimensions for chair only (W x D x H): 26.5 x 27.5 x 37 in.

Chair with storage cabinet includes one slide-out tray of high impact ABS plastic with dimensions (W x D): 14 x 20.25 in. Overall inside cabinet dimensions (W x D x H): 16.3 x 22 x 9 in. Padded urethane storage cabinet top includes a dished compartment. Bracket and hardware are provided to mount the interchangeable cabinet on right or left side of chair. Ten-year limited warranty on materials and workmanship.* Shipping weight 111 lbs. (50 kg). Some assembly required. Dimensions for chair with cabinet (W x D x H): 46 x 27.5 x 37 in.

Double blood drawing chair with center storage cabinet includes bracket and hardware to mount the cabinet between the two chairs. Ten-year limited warranty on materials and workmanship.* Shipping weight 169 lbs. (77 kg). Some assembly required. Dimensions for double chair with center storage cabinet (W x D x H): 75.4 x 27.5 x 37 in.

Cat. No.	Description	Qty.
L5165-1B	Blood drawing chair	1/ea
L5165-2B	Blood drawing chair w/side storage cabinet	1/ea
L5165-3B	Double blood drawing chair w/center storage cabinet	1/ea

*See product packaging and inserts for limited warranty terms.



Bariatric Blood Drawing Chairs

CARDINAL HEALTH - These chairs are durable and constructed for long life use. Rated to accommodate up to 700 lbs., the chair comfortably seats larger-proportioned individuals or an adult with a small child. This gray vinyl upholstered chair features two hinged padded arms and a type 304 stainless steel footrest. Chairs are constructed with a powder-coated, glacier white, 1 in. square tubular steel frame. This sturdy unit comes with a ten-year limited warranty on materials and workmanship.* Two easy-to-use knob mechanisms on each arm allow for incremental adjustments; arm height from chair seat of 8.2–13.2 in., arm depth from chair back of 18.4–21.4 in. The hinged arms may be lifted upright to vertical and the elevated seat reduces back strain on the technician. The vinyl upholstery on this chair is durable and easy to clean. Dimensions for chair only (W x D x H): 50.10 x 30.75 x 43.45 in.

The optional storage cabinet is constructed of epoxy-coated steel with a laminate top and has a slide-out tray with inside dimensions (W x D): 14 x 20.25 in. The tray is removable for cleaning and the cabinet placement is interchangeable from the left side to the right side of the chair. Some assembly is required. Overall inside cabinet dimensions (W x D x H): 16.3 x 22 x 9 in. Dimensions for chair with cabinet (W x D x H): 69.15 x 30.75 x 43.45 in.

Cat. No.	Description	Qty.
L5165-4A	Chair without cabinet	1/ea
L5165-5A	Chair with cabinet	1/ea

*Warranty excludes normal upholstery wear.

Space Saver™ Stationary Medical Lounge Chair

ARLINGTON SCIENTIFIC - The Space Saver™ is specially designed to accommodate space restrictions while assuring patient/donor comfort and technician safety. Interchangeable armrests allow left or right draws from either side of the lounge. Superior tear strength fabric that resists scuffs and scrapes. The Space Saver™ comes in both manual and electric models to meet your Apheresis, Oncology or blood collection needs.

- One adjustable armrest
- One control switch
- Two armrest mounts - your choice of positions
- Fourteen standard colors
- 110 V or 220 V electric motor
- Rated up to 650 lbs.

Cat. No.	Mfr. No.	Description	Qty.
B6255-20	LS-611-003	24 in. electric medical lounge chair	1/ea





Lab X Series Bariatric Blood Drawing Chair with Padded Arms

CLINTON INDUSTRIES - Sturdy, steel construction is combined with thick foam padding on seat and backrest to provide an extra measure of comfort and security for larger patients. Built tough enough to support 700 lbs. under normal use. Dimensions: overall (W x D x H) 31 x 27 x 36 in., seat (W x D x H) 35 x 21 x 20 in.

- 1 1/4 in. square, heavy duty, all-welded, tubular steel frame (3.18 cm)
- Extra steel center support
- Neutral gray powder-coated frame
- Adjustable height and depth flip arm(s)
- Flip arm(s) positions in place when in use, then flips out of the way for easy exit
- 9 choices of arm styles with no upcharge
- Comfortable 2 in. padding throughout (5 cm)
- Easy-clean, durable vinyl in a selection of colors
- 700 lbs. combined load capacity under normal use (181.4 kg)

Important note: Clinton Blood Drawing Chairs are not engineered to restrain a fainting or falling occupant. The chair's occupant should NEVER be left unattended.

Ordering note: MUST add arm suffix number to model number when ordering any model with arm options, otherwise chair will be shipped as shown.

Due to the possibility of blood borne pathogen contamination, all blood drawing products are non-returnable unless they are unused in unopened, original packaging.

Cat. No.	Mfr. No.	Description	Qty.
66000B*	66000B	Bariatric chair with flip-arms	1/ea
66000B-3RB	66000B-3RB	Bariatric chair with flip-arms - royal blue	1/ea
66000B-3WW	66000B-3WW	Bariatric chair with flip-arms - wedgewood blue	1/ea

*Corresponding color code must accompany vinyl color selection when placing and order



Lab X Series Blood Drawing Chair with Padded Arms

CLINTON INDUSTRIES - Blood Drawing Chairs put patient comfort first. A thick, padded, contoured seat and arched backrest are supported by a stable, durable, steel, powder-coated frame. Height-adjustable arms make operation easy for clinician and comfortable for patient. Dimensions: overall (W x D x H) 31 x 27 x 36 in., seat (W x D x H) 17 1/2 x 18 x 19 in.

- 1 1/4 in. square, heavy duty, all-welded, tubular steel, frame (3.18 cm)
- Neutral gray, powder-coated frame
- Adjustable height and depth flip arm
- Flip arm positions in place when in use, then flips out of the way for easy exit
- Height adjustable armrest
- 9 choices of arm styles with no upcharge
- Comfortable, 2 in. padding throughout (5 cm)
- Easy-clean, durable vinyl in a selection of colors
- 400 lbs. load capacity under normal use (181.4 kg)

Important note: Clinton Blood Drawing Chairs are not engineered to restrain a fainting or falling occupant. The chair's occupant should NEVER be left unattended.

Ordering note: MUST add arm suffix number to model number when ordering any model with arm options, otherwise chair will be shipped as shown.

Due to the possibility of blood borne pathogen contamination, all blood drawing products are non-returnable unless they are unused in unopened, original packaging.

Cat. No.	Mfr. No.	Description	Qty.
66010-3BK	66010-3BK	Chair with flip-arm - black	1/ea
66010-3RB	66010-3RB	Chair with flip-arm - royal blue	1/ea

Furniture

Blood Draw Chairs



Lab X Series Extra-Tall Blood Drawing Chair with Padded Arms

CLINTON INDUSTRIES - Blood Drawing Chairs put patient comfort first. A thick, padded, contoured seat and arched backrest are supported by a stable, durable, steel, powder-coated frame. Extra height reduces bending for phlebotomist. Height-adjustable arms make operation easy for clinician and comfortable for patient. Dimensions: overall (W x D x H) 31 x 27 x 42½ in., seat (W x D x H) 17½ x 18 x 26 in.

- Extra height reduces bending for phlebotomist
- 1¼ in. square, heavy duty, all-welded, tubular steel, frame (3.18 cm)
- Neutral gray, powder-coated frame
- Adjustable height and depth flip arm
- Flip arm positions in place when in use, then flips out of the way for easy exit
- Height adjustable armrest
- 9 choices of arm styles with no upcharge
- Comfortable, 2 in. padding throughout (5 cm)
- Easy-clean, durable vinyl in a selection of colors
- 400 lbs. load capacity under normal use (181.4 kg)

Important note: Clinton Blood Drawing Chairs are not engineered to restrain a fainting or falling occupant. The chair's occupant should NEVER be left unattended.

Ordering note: MUST add arm suffix number to model number when ordering any model with arm options, otherwise chair will be shipped as shown.

Due to the possibility of blood borne pathogen contamination, all blood drawing products are non-returnable unless they are unused in unopened, original packaging.

Cat. No.	Mfr. No.	Description	Qty.
66011-3BK	66011-3BK	Extra-tall chair with flip-arm - black	1/ea



Lab X Series Extra-Tall Blood Drawing Chair with Padded Flip Arm and Drawer

CLINTON INDUSTRIES - Blood Drawing Chairs put patient comfort first. A thick, padded, contoured seat and arched backrest are supported by a stable, durable, steel, powder-coated frame. One-piece, all-plastic drawer with ClintonClean™ drawer top. Extra height reduces bending for phlebotomist. Height-adjustable arms make operation easy for clinician and comfortable for patient. Dimensions: overall (W x D x H) 38 x 27 x 42½ in., seat (W x D x H) 17½ x 18 x 26 in.

- ClintonClean™ drawer top
- One-piece, all-plastic drawer
- Extra height reduces bending for phlebotomist
- 1¼ in. square, heavy duty, all-welded, tubular steel, frame (3.18 cm)
- Neutral gray, powder-coated frame
- Adjustable height and depth flip arm
- Flip arm positions in place when in use, then flips out of the way for easy exit
- Height adjustable armrest
- 9 choices of arm styles with no upcharge
- Comfortable, 2 in. padding throughout (5 cm)
- Easy-clean, durable vinyl in a selection of colors
- 400 lbs. load capacity under normal use (181.4 kg)

Important note: Clinton Blood Drawing Chairs are not engineered to restrain a fainting or falling occupant. The chair's occupant should NEVER be left unattended.

Ordering note: MUST add arm suffix number to model number when ordering any model with arm options, otherwise chair will be shipped as shown.

Due to the possibility of blood borne pathogen contamination, all blood drawing products are non-returnable unless they are unused in unopened, original packaging.

Cat. No.	Mfr. No.	Description	Qty.
66022*	66022	Extra-tall chair with flip-arm and drawer	1/ea

*Corresponding color code must accompany vinyl color selection when placing and order



Recliner Series Hi-Lo Blood Drawing Chair

CLINTON INDUSTRIES - Optimal height and the correct position of the patient are easy with Clinton's recliner series, blood drawing chair. This chair features a height travel range of 8 in., as well as reclining positions for upper body and legs to accommodate different procedures. Dimensions: overall (W x H) 35 x 50 in., length retracted 35 in., length extended 66 in., seat (W x D) 20½ x 17 in.

- Smooth, fully electric reclining and height adjustment
- Self-leveling arms and synchronized footrest that move with chair's seat and backrest
- Keeps patients comfortable and may better accommodate patients who may faint during a procedure
- Power supplies and motors meet UL 60601-1 and CAN/CSA C22.2 601.1
- Hand controller
- Heavy duty, all-welded, steel, neutral gray, powder-coated frame
- Padded seat, backrest, armrests and footrest
- Armrests flip up out of the way for easy entry and exit
- Adjustable foot levelers
- Easy-clean, durable, vinyl in a selection of colors
- 375 lbs. load capacity under normal use (170 kg)

Important note: Clinton Blood Drawing Chairs are not engineered to restrain a fainting or falling occupant. The chair's occupant should NEVER be left unattended.

Due to the possibility of blood borne pathogen contamination, all blood drawing products are non-returnable unless they are unused in unopened, original packaging.

Cat. No.	Mfr. No.	Description	Qty.
CI6810*	6810	Hi-Lo blood drawing reclining chair	1/ea

*Corresponding color code must accompany vinyl color selection when placing and order



Tech-Med® Standard Blood Drawing Chair

DUKAL - Plastic seat with Formica arm. One control knob allows you to raise and lower the arms effortlessly. Optional flip-up arm can be adjusted to varying angles with a single knob. Adjustable levelers on all four legs allow the chair to sit solidly on an uneven floor.

- 300 lb. weight capacity
- Overall dimensions (H x W x D): 32 x 34 x 28 in.
- Chair dimensions: seat height to floor 18 in., inside arm width 21 in., seat depth 16 in., height of adjustable arm 28–35 in.

Cat. No.	Mfr. No.	Description	Qty.
4381D	4381	Straight arm blood draw chair	1/ea
4381-FD	4381-F	Flip arm blood draw chair	



Tech-Med® Tall Blood Drawing Chair

DUKAL - High quality chair with tool free assembly and padded seat for ultimate patient comfort. One control knob allows you to raise and lower the arms effortlessly. Optional flip-up arm can be adjusted to varying angles with a single knob. Arms can be raised and lowered in infinite positions and rotate left or right. Adjustable levelers on all four legs allow the chair to sit solidly on an uneven floor. Vinyl is mildew resistant, sulfide stain resistant and static dissipative.

- 500 lb. weight capacity
- Overall dimensions (H x W x D): 43 x 34 x 28 in.
- Chair dimensions: seat height to floor 24 in., inside arm width 21 in., seat depth 17 in., height of adjustable arm 33–40 in.

Cat. No.	Mfr. No.	Description	Qty.
4383D	4383	Straight arm, blue, tall blood draw chair	1/ea
4383-FD	4383-F	Flip arm, blue, tall blood draw chair	1/ea

Furniture

Blood Draw Chairs

Tech-Med® Upholstered Blood Drawing Chair

DUKAL - High quality chair with tool free assembly and padded seat for ultimate patient comfort. One control knob allows you to raise and lower the arms effortlessly. Optional flip-up arm can be adjusted to varying angles with a single knob. Arms can be raised and lowered in infinite positions and rotate left or right. Adjustable levelers on all four legs allow the chair to sit solidly on an uneven floor. Vinyl is mildew resistant, sulfide stain resistant and static dissipative.



- 500 lb. weight capacity
- Overall dimensions (H x W x D): 36 x 34 x 36 in.
- Chair dimensions: seat height to floor 19 in., inside arm width 21 in., seat depth 17 in., height of adjustable arm 28–35 in.

Cat. No.	Mfr. No.	Description	Qty.
4382D	4382	Straight arm, blue, blood draw chair	1/ea
4382-FD	4382-F	Flip arm, blue, blood draw chair	



Tech-Med® Wide Blood Drawing Chair

DUKAL - High quality chair with tool free assembly and padded seat for ultimate patient comfort. One control knob allows you to raise and lower the arms effortlessly. Optional flip-up arm can be adjusted to varying angles with a single knob. Arms can be raised and lowered in infinite positions and rotate left or right. Adjustable levelers on all four legs allow the chair to sit solidly on an uneven floor. Vinyl is mildew resistant, sulfide stain resistant and static dissipative.

- 700 lb. weight capacity
- Overall dimensions (H x W x D): 40 x 43 x 28 in.
- Chair dimensions: seat height to floor 19 in., inside arm width 31 in., seat depth 17 in., height of adjustable arm 28–35 in.

Cat. No.	Mfr. No.	Description	Qty.
4382X-FD	4382X-F	Flip arm, blue, wide blood draw chair	1/ea

Tech-Med® Tray and Drawer Assembly

DUKAL - Attaches to the straight arm. Straight arm is pre-drilled for easy installment of tray and drawer.



- Tray dimensions (W x D): 8 x 11 in.
- Drawer dimensions (H x W x D): 4 x 11 x 11 in.

Cat. No.	Mfr. No.	Description	Qty.
4388D	4388	Tray and drawer assembly	1/ea



Blood Drawing Chair

LABCONCO - Labconco Blood Drawing Chairs provide optimal positions for venipuncture, ergonomically correct for both patient and phlebotomist. Designed with input from phlebotomists, elevated chair height and angled, padded arm helps ensure patient comfort.

Additional features:

- Padded arm cleans easily and withstands disinfection, angled at 10° to support the patient's arm in fully extended position for easier venipuncture
- Elevated 21 in. chair height reduces phlebotomist's back strain
- Stainless steel footrest provides support
- One piece welded 1 in. tubular steel frame with chemical-resistant powder epoxy
- Dimensions (W x L x H): 26.5 x 27.5 x 37 in.
- Weight capacity is 450 lbs. (204 kg)

Cat. No.	Mfr. No.	Description	Qty.
1120010	1120010	Blood drawing chair - single	1/ea



XL Padded Blood Drawing Chairs

WINCO - The 2575 features two infinitely adjustable armrests, padded seat and back and non-marring leveling feet. The flip-up contoured urethane armrest provides comfort, easy access, and added safety for the user. XL chairs have a seat width of 24 in. and a weight capacity of 450 lbs.

Cat. No.	Mfr. No.	Description	Qty.
WI575-17	2575-17	Blueridge - XL chair	1/ea
WI575-14	2575-14	Burgundy - XL chair	1/ea
WI575-02	2575-02	Royal blue - XL chair	1/ea



Basic Blood Drawing Chair

WINCO - The flip-up contoured urethane armrest provides comfort, easy access and added safety for the user. Offers a durable easy-clean seat and back, sturdy leveling feet, to provide years of trouble-free service.

Cat. No.	Mfr. No.	Description	Qty.
WI571	2571	Black - chair	1/ea



XL Padded Blood Drawing Chairs with Cabinet

WINCO - The 2574 features a 24.25 in. wide padded seat, high-impact aluminum frame and plastic storage cabinet with a slotted drawer. Additionally, it has adjustable armrests and high impact leveling feet. The 2574 is designed to safely accommodate patients up to 450 lbs.

Cat. No.	Mfr. No.	Description	Qty.
WI2574-08	2574-08	Black - XL chair with cabinet	1/ea



Padded Blood Drawing Chair with Cabinet

WINCO - The 2572 Padded Blood-Drawing Chair includes a high impact aluminum frame and plastic storage cabinet. The adjustable, steel reinforced, flip-up, contoured urethane armrest provides easy access and superior safety for the user. Chair has a seat width of 18.75 in. and a weight capacity of 300 lbs.

Cat. No.	Mfr. No.	Description	Qty.
WI2572-08	2572-08	Black - chair with cabinet	1/ea

Furniture

Carts

Carboy Caddy

LABCONCO - Safe transport of large carboys or cartons. Helps eliminate heavy lifting and back strain. 20 x 23.6 in. shelf is made of phenolic board with a melamine high-pressure laminate surface. Handle measures 38.5 in. high and 19 in. wide with extruded molded plastic handle grips. 3 in. diameter casters provide low profile, elevating shelf only 4.25 in. above the floor. Durable glacier white, epoxy-coated 18 gauge welded 1 in. square tubular steel frame. Supports loads up to 360 lbs. Lifetime guarantee.



Cart for the Cure™

LABCONCO - Cart for the Cure™ is a special, limited edition model of our popular portable table laboratory cart. It has all the great features of our standard portable table, except the 18 gauge welded tubular steel frame boasts the official Breast Cancer Awareness pink color. The cart also includes an official pink ribbon identification tag. Supports loads up to 400 lbs. Plus, for each Cart for the Cure™ sold, Labconco will donate \$50.00 to the St. Luke's Foundation to help provide free mammograms to women who can't afford them. Lifetime guarantee. Dimensions (L x W x H): 34.88 x 19 x 36.38 in.



Chemical Cart

LABCONCO - Chemical Cart has two open shelves with rigid PVC extrusions on two sides to prevent containers from sliding off. The lower shelf also has rigid plastic guard rails on both ends. Ergonomic, extruded molded plastic handle grips. The cart has 4 in. diameter casters, two with toe locks; ready-to-roll full factory assembly. The frame is durable glacier white, epoxy-coated 18 gauge welded tubular steel. Supports loads up to 400 lbs. Lifetime guarantee. Dimensions (L x W x H): 34.88 x 19 x 36.38 in.



Cat. No. **Mfr. No.** **Description** **Qty.**

C1250 8020000 Chemical cart - 2 shelves 1/ea

Flexi-Bin™ Carts

LABCONCO - Flexi-Bin™ Cart with 4 or 10 in. deep bin, for safe transport of glassware and chemical containers. Features a removable, corrosion-resistant polyethylene bin offered in two overall depths of 4 and 10 in. Includes three long (20.25 in.) and four short (15.25 in.) polyethylene dividers for partitioning the bin to securely hold items in upright position. The bottom open shelf holds additional supplies. Ergonomic, extruded molded plastic handle grips. The cart has 4 in. diameter casters, two with toe locks; ready-to-roll full factory assembly. The frame is durable glacier white, epoxy-coated 18 gauge welded tubular steel. Supports loads up to 400 lbs. Lifetime guarantee. Dimensions (L x W x H): 34.88 x 19 x 36.38 in.

Cat. No.	Mfr. No.	Description	Qty.
C1259	8010000	Flexi-Bin cart - 4 in. bin	1/ea
C1261	8010001	Flexi-Bin cart - 10 in. bin	1/ea



Glassware Carts

LABCONCO - Glassware Carts are used to carry glassware, plasticware, and small instruments in vinyl-coated wire baskets. Choose 2-basket or 4-basket style, complete with removable plastic drip pan to catch spills. The cart has 4 in. diameter casters, two with toe locks. Supports loads up to 400 lbs. Lifetime guarantee. Dimensions (L x W x H): 34.9 x 19 x 36.4 in.

Cat. No.	Mfr. No.	Description	Qty.
C1252	8032500	2 basket cart - basket 32 x 18 x 4 in.	1/ea
C1253	8045000	4 basket cart - basket 16 x 18 x 4 in.	1/ea



Instrument Desk

LABCONCO - This desk includes 4 in. diameter casters, 2 with toe locks for mobile or stationary use. It features standard desk height with a center reinforcing bar to allow seating from either side. Top is phenolic board with high-pressure melamine laminate surface that resists stains and corrosion. Handle has an ergonomic molded plastic grip. Glacier white epoxy-coated frame is welded of 1 in. square steel tubing. The desk holds up to 400 lbs. Lifetime guarantee. Dimensions (L x W x H): 42.13 x 19 x 31.63 in.

Cat. No.	Mfr. No.	Description	Qty.
C1262	8052500	Instrument desk	1/ea



LOGIC® Cart

LABCONCO - LOGIC® Cart, specifically designed to provide convenient storage of supplies commonly used in biological safety cabinets. Its compact size allows it to fit easily under Purifier Logic, Logic+ and Axiom Class II Biosafety Cabinets and PuriCare Procedure Stations mounted on telescoping base stands adjusted to any height. Two in. diameter casters and front and right side handle cutouts allow the cart to be easily moved to within reach while the user works. Three right side compartments accommodate pipettes and other supplies. The top left side compartment with front panel cutouts accommodates boxes of wipes and gloves. The drawer holds a variety of miscellaneous small instruments and supplies. An open storage area holds larger equipment and supplies. The 25 x 19 in. (W x D) work surface and cart bottom are constructed of corrosion-resistant white high density polyethylene that is easy to clean. Remaining components are constructed of corrosion-resistant white ABS. Dimensions (L x W x H): 25 x 19 x 27 in.

Cat. No.	Mfr. No.	Description	Qty.
L5302-21	8022000	LOGIC® Cart	1/ea

Mobile Bench

LABCONCO - Mobile Bench provides auxiliary bench space and transports equipment from lab to lab. Durable work surface is fiber board with high pressure melamine laminate. Supports loads up to 540 lbs. The cart has 5 in. diameter non-marking polyurethane casters with toe locks. Frame is constructed of 2 in. square steel tubing painted with corrosion-resistant, glacier white epoxy powder. Lifetime guarantee. Dimensions (L x W x H): 48 x 24 x 37.2 in. Work surface is 1.1 in. thick.



Cat. No.	Mfr. No.	Description	Qty.
C1260-1	8060000	Mobile Bench	1/ea

Pan Cart

LABCONCO - This pan cart transports wet or soiled glassware, labware and other materials. Features two 2 in. deep powder-coated steel removable watertight pans. The unit is lined with removable gray rubber mats to help prevent loads from shifting. The pan cart ships fully factory-assembled and ready to roll on its 4 in. dia. casters. Features include ergonomic, extruded molded plastic handle grips; a durable glacier white, powder-coated 18G welded tubular steel frame and ID tag. The pan cart can support loads up to 400 lbs. and comes with a lifetime guarantee. Dimensions: (L x W x H) 34.88 x 19 x 36.38 in.



Cat. No.	Mfr. No.	Description	Qty.
C1256	8047500	Pan Cart	1/ea

Portable Table

LABCONCO - Portable Table features two open shelves that provide easy transfer of equipment from countertop to cart. Table features 1 in. square steel tubing and has 4 in. diameter casters for mobility, two with toe locks. Shelves of glacier white phenolic board with high-pressure melamine laminate surface resist staining and corrosion. Handles have ergonomic molded plastic grips. Frame is constructed of glacier white 1 in. square steel tubing. Holds up to 400 lbs. Lifetime guarantee. Dimensions (L x W x H): 34.9 x 19 x 36.4 in.



Cat. No.	Mfr. No.	Description	Qty.
80250	8025000	Portable Table	1/ea

Furniture

Carts and Chairs

ScrubberMate™ Glassware and Rack Cart

LABCONCO - Designed for Labconco glassware washers, the ScrubberMate provides convenient storage and transport of extra Labconco washer racks, inserts or miscellaneous glassware. Accommodates up to 2 Labconco washer racks or 4 wire inserts. Alternatively, 48 adjustable and removable pins, 0.5 in. wide x 4.75 in. high may be arranged in the drawers to hold inverted flasks, beakers and other glassware.

Rails are provided to allow a lower washer rack to slide directly onto the cart from the washer. In addition, the lower drawer pulls out for simple loading of inserts or individual glassware. An upper washer rack may be docked above the upper drawer. The upper drawer accommodates 2 wire inserts and is removable so that tall glassware may be loaded in the lower drawer. Durable and chemical-resistant, high density polyethylene construction. Includes 2.5 in. diameter casters with toe locks. Dimensions (L x W x H): 23.3 x 22.6 x 31.6 in.



Cat. No.	Mfr. No.	Description	Qty.
L5218-232	8027000	ScrubberMate™ Glassware Cart	1/ea



Stainless Steel Cart

LABCONCO - Stainless Steel Cart holds a variety of laboratory supplies, equipment and miscellaneous containers. Features 2 removable polished Type 304 stainless steel pans that are 2 in. deep on three sides with one open side for easy equipment transfer from countertop to cart. Durable glacier white, epoxy-coated 18 gauge welded 1 in. square tubular steel frame. Four 4 in. diameter casters, two with toe locks. Handles have ergonomic molded plastic grips. Supports loads up to 400 lbs. with lifetime guarantee. Dimensions: (L x W x H) 34.88 x 19 x 36.38 in.

Cat. No.	Mfr. No.	Description	Qty.
C1257	8019000	Stainless Steel Cart	1/ea

Utility Cart

LABCONCO - The Utility Cart is a compact, mobile work station for laboratory equipment. An open shelf transports and supports small electrical equipment. Lower 2 in. deep epoxy-coated steel, removable watertight pan transports wet or soiled glassware and other labware. Cart includes power strip with 115 V, 60 Hz, 12 amps capacity, has 6 electrical outlets, cord bracket and a 12-foot, 3-wire cord with plug. Two corrosion-resistant, one-piece, vacuum-formed ABS plastic drawers, 15.75 x 14.9 x 4.2 in. high hold small labware and supplies. 4 in. diameter casters, two with toe locks. Supports loads up to 400 lbs. Lifetime guarantee. Dimensions (L x W x H): 34.9 x 19.0 x 36.4 in.



Cat. No.	Mfr. No.	Description	Qty.
C1258	8070000	Utility Cart with power strip	1/ea

Variable Height Bench

LABCONCO - Variable Height Bench with four adjustable heights, provides heavy duty auxiliary bench space and transports equipment from lab to lab. Durable work surface is fiber board with high pressure melamine laminate. Heights range from 29.6 to 37.4 in. using steel pins with nuts inserted in vertical frame members. Supports loads up to 540 lbs. Frame is constructed of glacier white 2 in. square steel tubing. The cart has 5 in. diameter non-marking polyurethane casters with toe locks. Lifetime guarantee. Dimensions (L x W x H): 38 x 28 x 29.6 to 37.4 in. Work surface is 1.1 in. thick.



Cat. No.	Mfr. No.	Description	Qty.
C1260-5	8075000	Mobile bench	1/ea

Ergonomic Chair with Armrests

LABCONCO - Chair has 6-way articulating seat and back control for personalized adjustment. Pneumatic mechanism adjusts seat height from 18.25 to 25.75 in. Five-leg reinforced composite base with 2 in. diameter ball bearing casters. Aluminum support ring. Removable armrests. Black vinyl upholstery.



Cat. No.	Mfr. No.	Description	Qty.
L5302-16	3744000	Ergonomic Chair with Armrests	1/ea



Digital Dry Baths

CARDINAL HEALTH - This series of digital dry baths offer control over both temperature and time, eliminating the need for an external thermometer or timer. Available in three configurations, our digital dry baths offer capacity up to four blocks. Extremely space efficient — our four-block model can accommodate up to 96 x 1.5 mL tubes in less than a square foot of bench space.

Precision machined to match the conical shape of 0.5, 1.5, 2, 15 and 50 mL tubes, the wells in the aluminum blocks offer excellent thermal transfer to sample tubes. Assorted blocks are available for compatibility with nearly all common tube sizes.

Built-in user recalibration function helps to ensure long-term temperature accuracy. Each dry bath includes an easy-to-use block lifter with a temperature insulated handle for quick, convenient exchange of blocks... even while they're still hot.

Specifications:

Temperature range	Ambient +5°C to 150°C - single, double block Ambient +5°C to 130°C - four block
Temperature accuracy.....	± 0.2°C
Temperature uniformity.....	± 0.2°C
Temperature increments	0.1°C
Timer.....	1 to 999 minutes
Electrical.....	115 V, 50/60 Hz
Dimensions (W x D x H)	Single block - 7.8 x 9 x 3.2 in. (20 x 23 x 8 cm), two block - 8.7 x 10.3 x 3.2 in. (22 x 26 x 8 cm) four block - 8.7 x 14 x 3.2 in. (22 x 35.5 x 8 cm)
Blocks	High grade aluminum
Warranty	Two-year

Cat. No.	Description	Qty.
Digital Dry Baths		
CH1001	Digital Dry Bath - single position, without blocks	1/ea
CH1002	Digital Dry Bath - two position, without blocks	1/ea
CH1004	Digital Dry Bath - four position, without blocks	1/ea
Blocks		
CHBSW02	48 x 0.2 mL tubes or 6 PCR tube strips	1/ea
CHBSW05	24 x 0.5 mL	1/ea
CHBSW1500	24 x 1.5 mL	1/ea
CHBSW1520	24 x 1.5/2 mL	1/ea
CHBSW10	20 x 10 mm (or 20 x 2 mL) for 10 x 75 tubes	1/ea
CHBSW5MT	12 x 5 mL	1/ea
CHBSW13	20 x 13 mm (or 20 x 5/7 mL) for 12 x 75 tubes	1/ea
CHBSW1516	12 x 15-16 mm (or 12 x 10 mL)	1/ea
CHBSW15	12 x 15 mL (block height is 3.25 in.)	1/ea
CHBSW50	5 x 50 mL (block height is 3.25 in.)	1/ea
CHBSWPCR1	1 x 96-well PCR Plate (for 1 block model)	1/ea
CHBSWPCR2	1 x 96-well PCR Plate (for 2 and 4 block models)	1/ea
CHBSWMT	1 x Micro titer plate (for 2 and 4 block models)	1/ea
CHBSW01	Solid – for slides or custom machining	1/ea

General Lab

Digital Dry Baths and Blocks

Digital Dry Baths with Removable Hinged Lid

CARDINAL HEALTH - The next generation of digital dry baths offers advanced microprocessor controls and timed or continuous operation. They also feature a transparent, removable, hinged lid that promotes better uniformity and less temperature stratification in the block by maintaining a warm air layer. The hinged lid also helps to reduce energy consumption by minimizing heat loss to the environment. It can be flipped open (to the rear) or easily removed (lifted off) to accommodate taller tubes.

The dry baths are available as single or dual block models. The IsoBlock model has two independently controlled temperature blocks to allow for different temperature incubations within the same machine.

Both single and dual block models can be ordered in a configuration that includes our unique combination blocks (CHBSWCMB). These universal blocks accept tubes from 0.5 to 2 mL and, with a quick flip to the other side, accommodate 0.2 mL tubes, PCR strips or (in the dual block model only) a PCR plate. Other blocks are available for tubes up to 50 mL.

Specifications:

Temperature range Ambient +5°C to 105°C

Temperature accuracy ± 0.25°C

Temperature uniformity ± 0.2°C

Temperature increments 0.1°C

Timer 1 minute to 99 hours and 59 minutes

Electrical 115 V, 50/60 Hz

Dimensions (W x D x H) **Single chamber** - 7 x 10 x 5 in. (18 x 25 x 13 cm),

Dual chamber - 6.3 x 14.5 x 5 in. (16 x 36.5 x 13 cm)

Weight 10 lbs. (4.5 kg)

Warranty Two-year



Cat. No.	Description	Qty.
Digital Dry Baths		
CHH5001	Digital Dry Bath - single chamber without blocks	1/ea
CHH50011B	Digital Dry Bath - single chamber with one block (CHBSWCMB) for tubes 0.2 to 2 mL and PCR strips	1/ea
CHH5002	Digital Dry Bath - dual chamber without blocks	1/ea
CHH50022B	Digital Dry Bath - dual chamber with two blocks (CHBSWCMB) for tubes 0.2 to 2 mL and PCR strips and PCR plate	1/ea
CHH6000	IsoBlock Digital Dry Bath with two independently controlled chambers, without blocks	1/ea
Blocks		
CHBSWCMB	Combination block: Side one holds - 24 x 1.5 mL/2 mL and 14 x 0.5 mL Side two holds - 6 x PCR strips, 48 x 0.2 mL or one PCR plate*	1/ea
CHBSW02	48 x 0.2 mL tubes or 6 PCR tube strips	1/ea
CHBSW05	24 x 0.5 mL	1/ea
CHBSW1500	24 x 1.5 mL	1/ea
CHBSW1520	24 x 1.5/2 mL	1/ea
CHBSW10	20 x 10 mm (or 20 x 2 mL)**	1/ea
CHBSW13	20 x 13 mm (or 20 x 5/7 mL) for 12 x 75 tubes**	1/ea
CHBSW1516	12 x 15-16 mm (or 12 x 10 mL)	1/ea
CHBSW15	12 x 15 mL**	1/ea
CHBSW50	5 x 50 mL**	1/ea
CHBSWPCR1	1 x 96-well PCR Plate	1/ea
CHBSWPCR2	1 x 96-well PCR Plate (for dual chamber models)	1/ea
CHBSWMT	1 x Micro titer plate (for dual chamber models)	1/ea
CHBSW01	Solid – for slides or custom machining	1/ea

*Two blocks required for use with PCR plates

**Tall block (3.25 in.), height prevents use with lid

Mini Digital Dry Baths

CARDINAL HEALTH - The Mini Digital Dry Baths are compact and have a small footprint on the benchtop. They are available in heating and cooling versions. Each of these units offers a broad temperature range and multiple block options for laboratory incubation. The optional 12 V adapter is available for field use. The clear cover improves temperature uniformity. Blocks are purchased separately.

- Exchangeable blocks for 0.2 to 50 mL tubes
- Less than 4.3 inches wide
- Cooling model allows for linking two consecutive temperature steps

Specifications:

Temperature accuracy.....± 0.5°C

Temperature uniformity.....± 0.2°C

Temperature increments0.1°C

Electrical requirements.....100–240 V, 50/60 Hz

Weight2 lbs. (1 kg)

WarrantyTwo-year

CHBSH200

Temp range.....Ambient +5°C to 100°C

Heating time.....20°C to 100°C, <20 min.

Dimensions (W x D x H)4 x 6 x 4.5 in. (10.2 x 15 x 11.5 cm)



CHBSH200

CHBSH300

CHBSH300

Temp range.....Ambient –25°C to 100°C

Heating time.....20°C to 100°C, <20 min.

Cooling time.....20°C to 0°C, <25 min.

Dimensions (W x D x H)4.3 x 6.4 x 5.5 in. (11 x 16.2 x 14 cm)

Cat. No.	Description	Qty.
CHBSH200	Mini Digital Dry Bath without blocks	1/ea
CHBSH300	Mini Digital Dry Bath with cooling without blocks	1/ea
Blocks and accessories		
CHBSH100-1	Block, 40 x 0.2 mL or 5 x PCR strips	1/ea
CHBSH100-2	Block, 24 x 0.5 mL	1/ea
CHBSH100-3	Block, 15 x 1.5 mL	1/ea
CHBSH100-4	Block, 15 x 1.5 or 2 mL	1/ea
CHBSH100-8	Block, 15 x 2 mL autosampler vials	1/ea
CHBSH100-5	Block, 6 x 5 mL conical (17 mm diameter)*	1/ea
CHBSH100-6	Block, 4 x 15 mL*	1/ea
CHBSH100-7	Block, 2 x 50 mL*	1/ea
CHBSH100-9	Block, 15 x 12-13 mm diameter tubes and vacutainers*	1/ea
CHBSH10-10	Block, 8 x cuvettes (not compatible with cover)	1/ea
CHBSH10-11	12 V vehicle power adapter	1/ea

*Block height may prevent lid from closing.

Thermo Scientific™ Digital Dry Bath/Block Heater

THERMO FISHER SCIENTIFIC - Increase lab versatility with the digital dry baths/block heaters, which offer a range of configurations with interchangeable modular blocks for a variety application needs.

- Digital controls and display of time and temperature
- Built-in temperature sensing probe for outstanding temperature accuracy and control
- 1, 2 and 4 block sizes, blocks sold separately
- Precise temperature control with PID circuit
- Timer allows the user to accurately monitor the heating time
- Powder-coated steel body construction ensures durability

**Specifications:**

Temperature range.....Ambient +5°C to 130°C (ambient at 25°C)

Timer range.....0-99:59 min or continuous

Temperature accuracy.....≤ ± 0.5°C at 37°C

Heating up time≤ 20 min. 30°C to 130°C

Temperature uniformity.....≤ ± 1°C at 37°C

Cat. No.	Mfr. No.	Description	Qty.
88870001	88870001	Digital dry bath, 1 block - 100-120 V 50/60 Hz	1/ea

General Lab

Freeze Dryer and Accessories

FreeZone Legacy 6 Liter Benchtop Freeze Dryer

LABCONCO - FreeZone Legacy 6 Liter Benchtop Freeze Dryer is designed for light to moderate aqueous sample loads. This model is not for use with samples containing acetonitrile. Removes a maximum of 4 liters of water in 24 hours.* Includes brushed stainless steel and powder-coated steel exterior; stainless steel collector chamber and coil; LCD that displays system operating parameters, set-up parameters and alarm messages, choice of temperature in °C and °F, choice of vacuum in mBar, Pa and Torr.

- ¾ hp CFC-free refrigeration system
- Red alarm light
- LED vacuum and temperature wave graphs
- Patented moisture sensor
- Vacuum control and break valves
- Rear-mounted RS-232 port
- Automatic start-up switch for collector cool-down and vacuum pull-down with manual override switches
- Retractable collector drain line
- 3 in. diameter port for connection of drying accessory (drying accessory sold separately)
- Rear-mounted electrical receptacle for vacuum pump connection (pump not included)
- Includes ¾ in. OD vacuum connection; 3 ft. of ¾ in. ID vacuum hose; and two clamps.



Cat. No.	Mfr. No.	Description	Qty.
L5218-81	7752020	FreeZone Legacy 6 L freeze dryer - 115 V, 60 Hz	1/ea

*Freeze drying rate will be lower for samples other than shell-frozen plain water. For optimum performance, room temperature should be 21°C (70°F) or colder.

12-Port and 16-Port Drying Chamber with PTFE

LABCONCO - The 12-Port Drying Chamber includes 12 neoprene valves with molded plastic knobs that accommodate both ½ in. and ¾ in. adapters for connection of flasks, a ½ in. thick acrylic lid with neoprene gasket and one latching pin.

The 16-Port Drying Chamber includes ¾ in. thick acrylic lid with neoprene gasket, 16 neoprene valves with molded plastic knobs that accommodate both ½ in. and ¾ in. adapters for connection of flasks and one latching pin.

Drying Chambers provide a means to attach flasks to your freeze dryer or contain samples in bulk. Made of type 304 stainless steel. It is compatible with FreeZone 1, 2.5, 4.5, 6, 8, 12 or 18 liter freeze dryers.



Cat. No.	Mfr. No.	Description	Qty.
L7522801	7522801	12-port - 8 in. diameter x 9.75 in. H	1/ea
L7522901	7522901	16-port - 13 in. diameter x 13 in. H	1/ea

Ampule Pods

LABCONCO - Ampule pod attaches to a single valve port and accommodates up to 15 ampules for simultaneous freeze drying. Polypropylene base has 15 each $\frac{1}{4}$ in. ID or $\frac{3}{8}$ in. ID tubing ports, each with silicone tubing for attachment of ampules. For ampule neck sizes; $\frac{1}{4}$ in. ID tubing ports – less than 10 mm, $\frac{3}{8}$ in. ID tubing ports – 10 mm or larger. Includes 15 plugs, 2 each clamps and 1 straight stainless steel adapter. Ampules not included. Adapter attaches to port on freeze dryer. Provides connection of ampules to drying chambers and manifolds. Dimensions (W x D x H): 3.8 x 3.8 x 7.5 in.



Cat. No.	Mfr. No.	Description (W x D x H)	Qty.
L7205100	7205100	Ampule Pod - $\frac{1}{4}$ in. ID tubing ports	1/ea
L7205101	7205101	Ampule Pod - $\frac{3}{8}$ in. ID tubing ports	1/ea

Clear Chambers

LABCONCO - Clear acrylic chamber fits all FreeZone freeze dryers. Provides visibility for bulk freeze drying. Short chamber accommodates short product shelves (L7317100), tall chamber accommodates tall product shelves (L7317200). Inside dimensions of short chamber: 11.5 in. diameter x 12.4 in. high; inside dimensions of tall chamber: 11.5 in. diameter x 20.2 in. high. Includes clear acrylic lid with gasket, cap for vacuum port, vacuum release valve and pass through for electrical cords. 8 in. diameter opening to collector on bottom of chamber. Will fit 10.12 or 14 in. diameter condensers. Drying chambers provide a means to attach flasks to your freeze dryer or contain samples in bulk.



Cat. No.	Mfr. No.	Description	Qty.
L7318702	7318702	Short - 13.6 diameter x 16.8 in. H	1/ea
L7318700	7318700	Tall - 13.6 diameter x 24.6 in. H	1/ea

Clear Chamber with Eight Valves

LABCONCO - Clear acrylic chamber for all FreeZone freeze dryers. Provides visibility for bulk freeze drying. Short chamber accommodates short product shelves (L7317100), tall chamber accommodates tall product shelves (L7317200). Inside dimensions of short chamber: 11.5 in. diameter x 12.3 in. high; inside dimensions of tall chamber: 11.5 in. diameter x 20.0 in. high. Includes aluminum lid with 8 neoprene valves with molded plastic knobs for use with both $\frac{1}{2}$ and $\frac{3}{4}$ in. adapters, cap for vacuum port and pass through for electrical cords. 8 in. diameter opening to collector on bottom of chamber. Will fit 10.12 or 14 in. diameter condensers. Drying chambers provide a means to attach flasks to your freeze dryer or contain samples in bulk.



Cat. No.	Mfr. No.	Description	Qty.
L7318802	7318802	Short - 17.4 diameter x 15.3 in. H	1/ea
L7318800	7318800	Tall - 17.4 diameter x 23 in. H	1/ea

Complete Fast-Freeze Flask, Amber

LABCONCO - High strength borosilicate glass withstands extreme temperatures and high vacuum. Amber-colored glass protects light-sensitive samples. Includes one non-contaminating silicone rubber top. Features flat bottom and wide mouth for easy loading and cleaning.



Fast-Freeze Flasks attach with adapters to valve ports on Labconco drying chambers and manifolds. A complete Fast-Freeze Flask consists of a rubber top, glass bottom and a supply of filter paper.

Glass flasks withstand max temperature of 490°C. Flask toppers withstand a max temperature of 450°C.

Cat. No.	Mfr. No.	Description	Qty.
L7540601	7540601	300 mL - amber flask with silicone top	1/ea
L7540801	7540801	600 mL - amber flask with silicone top	1/ea
L7541101	7541101	750 mL - amber flask with silicone top	1/ea
L7540901	7540901	900 mL - amber flask with silicone top	1/ea
L7542601	7542601	300 mL - amber flask bottom only	1/ea
L7542801	7542801	600 mL - amber flask bottom only	1/ea
L7542701	7542701	750 mL - amber flask bottom only	1/ea
L7542901	7542901	900 mL - amber flask bottom only	1/ea

FreeZone Cart

LABCONCO - Powder-coated steel cart supports FreeZone benchtop, Legacy benchtop and Triad freeze dryers during use, storage, or transportation. Lower shelf provides space for vacuum pump. Casters provide mobility. Maximum weight capacity of 450 lbs. 23.3 in. between shelves.



Cat. No.	Mfr. No.	Description (W x D x H)	Qty.
L7368700	7368700	FreeZone Cart - 28 x 28 x 31.3 in.	1/ea

Manifolds

LABCONCO - Manifolds with neoprene valves with molded plastic knobs that accommodate both $\frac{1}{2}$ in. and $\frac{3}{4}$ in. adapters for connection of flasks. Includes one latching pin. Manifolds are made of type 304 stainless steel and mount atop FreeZone freeze dryers. 4-port and 8-port manifolds are for use with any FreeZone freeze dryer. 14-port and 28-port manifolds are for use with any FreeZone console freeze dryer.



Cat. No.	Mfr. No.	Description (W x D x H)	Qty.
L7201700	7201700	4-port - 8.6 x 8.6 x 11.2 in.	1/ea
L7201800	7201800	8-port - 8.6 x 8.6 x 15.7 in.	1/ea
L7201900	7201900	14-port - 24.3 x 10.6 x 10.3 in.	1/ea
L7202000	7202000	28-port - 24.3 x 10.6 x 18.3 in.	1/ea

General Lab

Freeze Dryer Accessories

Microwell Plate Holder

LABCONCO - Solid aluminum base tightly holds a 127.8 x 85.5 mm microplate. Eliminates the air gap on the bottom of the plate, providing excellent heat transfer to the microplate. It gives temperature stability to small samples that are susceptible to meltback. Microplate not included.



Cat. No.	Mfr. No.	Description (W x D x H)	Qty.
L7369600	7369600	Plate holder - 5.7 x 8.0 x 0.7 in.	1/ea



Small Tray

LABCONCO - Stainless steel tray to contain pre-frozen liquids for bulk drying. Makes sample loading and unloading as well as cleaning easy. Tray has a 0.9 in. lip. Dimensions fit the FreeZone small tray dryer perfectly. May also be used with FreeZone stoppering and bulk tray dryers.

Cat. No.	Mfr. No.	Description (W x D x H)	Qty.
L7377900	7377900	Small tray - 10.3 x 11.6 x 0.9 in.	1/ea

Oil Return Kit for Rotary Vane Vacuum Pump

LABCONCO - Allows extended operation of the pump with the ballast open and helps to keep oil purged of contaminants. Consists of a stainless steel cylinder and tubing with clamp. When the excess oil collects in the filter, it is directed back to the pump to conserve oil.

Cat. No.	Mfr. No.	Description	Qty.
1473500	1473500	Oil Return Kit for Rotary Vacuum Pump	1/ea



Product Shelves

LABCONCO - Removable, 10 in. diameter aluminum shelves with 1/4 in. rim. Shelves slide into stainless steel support. Includes three rubber feet. Removable shelf design allows for flexible shelf height spacing. Shelves can be placed in freezer to pre-freeze sample for quick loading. Product shelves accommodate bulk samples, microtiter plates, vials or serum bottles. They are designed to fit inside Clear and 16-port drying chambers (sold separately).



Cat. No.	Mfr. No.	Description (W x D x H)	Qty.
L7317100	7317100	3 short product shelves - 10.9 x 10.4 x 9.8 in.	1/ea
L7317200	7317200	5 tall product shelves - 10.9 x 10.4 x 17.5 in.	1/ea

Stainless Steel and Acrylic Lids for FreeZone Freeze Dryers

LABCONCO - Stainless steel lids with 3 in. diameter center hole replaces acrylic lid included with FreeZone 2.5, 4.5, 6, 8, 12 and 18 L freeze dryers. Stainless steel provides additional protection from solvents and corrosives that attack acrylic, such as acetonitrile. Includes neoprene gasket. A cap is provided to close off the freeze dryer's 3 in. diameter attachment port when not in use. Lids fit on drying chambers and FreeZone collector chambers.

Optional acrylic lid fits FreeZone 6, 12 and 18 L freeze dryer collector chambers. 14 in. diameter acrylic lid has a 3 in. diameter hole for direct accessory connection. Includes neoprene gasket. A cap is provided to close off the freeze dryer's 3 in. diameter attachment port when not in use. Lid is compatible with FreeZone drying chambers, 4- and 8-port manifolds, clear chambers and heated product shelves. Lids fit on drying chambers and FreeZone collector chambers.

Cat. No.	Mfr. No.	Description	Qty.
Stainless Steel lids			
L7207500	7207500	10.12 in. diameter lid for FreeZone 2.5 L freeze dryers	1/ea
L7207400	7207400	14 in. diameter lid for FreeZone 4.5, 6, 8, 12 and 18 L freeze dryers	1/ea
Acrylic Lids			
L7208200	7208200	14 in. diameter lid for FreeZone 6, 12 and 18 L freeze dryers	1/ea

Slant Freeze Flask Holder

LABCONCO - Powder-coated steel holder accommodates Labconco flasks of any size. Manually adjust angle from 5° to 35°. Excellent for pre-freezing flasks for greater surface area. Slant freezing increases the surface area to volume ratio, maximizing freeze drying rate. Flask not included.



Cat. No.	Mfr. No.	Description (W x D x H)	Qty.
L7369700	7369700	Flask holder - 4.5 x 10.4 x 6.7 in.	1/ea

Freeze Dryer Accessories/Miscellaneous

Support Shelves

LABCONCO - Support Shelves attach easily without tools to the sides of the FreeZone benchtop and Legacy benchtop freeze dryers or left-hand side of the FreeZone Triad freeze dryer to provide support for large flasks attached to the drying chamber or manifold. Multiple rows of perforations on the sides of the FreeZone cabinet allow for height adjustment of the shelves to support various sizes of flasks. One pair. Glacier white powder-coated steel wire.



Cat. No.	Mfr. No.	Description	Qty.
L5218-9	7426400	Support Shelves - pair	1/pk

VACUUBRAND Diaphragm Vacuum Pump

LABCONCO - VACUUBRAND Diaphragm Vacuum Pumps are sized for use with CentriVap centrifugal concentrators, RapidVap vacuum evaporation systems and vacuum desiccators and have uses with many other pieces of laboratory equipment that require a vacuum source. The wetted parts of these pumps are PTFE-coated for corrosion resistance. Displacement capacities range from 38 to 63 liters per minute. Dimensions (W x D x H): 9.6 x 8.3 x 7.8 in.



Cat. No.	Mfr. No.	Description	Qty.
7359020	7359020	Vacuum pump 115 V, 50/60 Hz	1/ea

Tube Holders

LABCONCO - Holder accommodates up to 9 each (15 mL) 17 x 120 mm or 4 each (50 mL) 30 x 116 mm tubes and secures them in an upright position. Fits inside a 900 mL or larger Fast-Freeze flask (tubes and glassware not included). Stainless steel.



Cat. No.	Mfr. No.	Description	Qty.
L7379400	7379400	17 x 120 mm tubes	1/ea
L7379500	7379500	30 x 115 mm tubes	1/ea

Scroll Vacuum Pump

LABCONCO - Scroll Vacuum Pumps are low maintenance, corrosion-resistant pumps that require no oil. While they can have higher up-front costs, the lifetime operation costs are much lower. It is recommended that the scrolls be changed every 40,000 hours of use. Eliminating the oil eliminates hydrocarbon contamination. Scroll pumps handle water vapor better than most types of pumps and make significantly less noise during operation.



Cat. No.	Mfr. No.	Description (W x D x H)	Qty.
7587000	7587000	Scroll pump 190 LPM 115 V, 50/60 Hz	1/ea

Silencer for Scroll Vacuum Pump

LABCONCO - Silencer for Labconco Scroll Pumps filters exhaust while silencing exhaust pump noise. It also prevents tip seal dust from contaminating the environment. Sound absorbent element is replaceable. Includes filter, centering ring and clamp to attach to exhaust outlet.



Cat. No.	Mfr. No.	Description (W x D x H)	Qty.
7587300	7587300	Silencer for Scroll Vacuum Pump	1/ea



3 Ft. Protector Evidence Drying Cabinet with UV Light

LABCONCO - The durable, stainless steel-lined Protector Evidence Drying Cabinet provides a secure ventilated area to dry evidence such as clothing and bedding. The cabinet's HEPA and carbon filtered exhaust protects personnel from exposure to biohazards while eliminating nuisance odors. The key-activated ultraviolet light provides secondary disinfection of the Evidence Drying Cabinet's interior between cases to prevent cross contamination, ensuring integrity of samples for DNA testing. The lockable cabinet maintains the chain of custody.

Cat. No.	Mfr. No.	Description	Qty.
L5218-235	3400000	Evidence Drying Cabinet - 115 V	1/ea

General Lab

Miscellaneous

Polyethylene Carboy with Handle and Screw Cap

BEL-ART - Thick-walled, high-density polyethylene carboy has easy-grip handle for transporting.

- Threaded, 83 mm knurled cap with gasket provides leak-proof shipping and storage
- Dual scale graduations: every $\frac{1}{2}$ gallon up to 5 gallons and every 5 liters up to 15 liters
- Indented labeling area: $6\frac{1}{4} \times 4$ in. (16×10.3 cm)
- Maximum operating temperature 248°F (120°C); minimum operating temperature -58°F (-50°C)
- Dimensions: 10.9 dia. x 19.6 in. H (28 dia. x 49.8 cm H)



Hand Tally Counter

CARDINAL HEALTH - This four-digit hand tally counter records to 9,999. White numerals are on a black background behind a protective glass window. Features include heavy-duty, chrome-finish case with hinged finger loop and reset button for return to zero. Thumb pressure on the button produces an audible click. $1\frac{1}{4}$ dia. x $1\frac{1}{8}$ in. W. Net wt. 3 oz.



RapidVap N2/48 Dry Evaporation System

LABCONCO - RapidVap N2/48

Evaporation Systems use nitrogen blow down, vortex motion and heat to speed evaporation of up to 48 small samples or eight 450 milliliter samples at once. A stream of nitrogen or dry gas is directed downward onto the surface of the sample. Nitrogen blow down reduces the partial pressure directly over the liquid to speed evaporation and help remove the solvent as it evaporates. These systems may be used to prepare samples for applications such as drug development and metabolism, bioresearch, combinatorial chemistry, environmental testing, forensics and toxicology. Dimensions (W x D x H): 21.7 x 19 x 13.5 in.



Cat. No. Mfr. No. Description Qty.

E5405-36 7910012 RAPIDVAP N2/48 system 115 V, 50/60 Hz 1/ea



Frigimat Cub - Dry Ice Maker

BEL-ART - Easy to set up and use, this compact device saves the time and expense of receiving a dry ice delivery. Can be attached to a liquid CO₂ cylinder (not included) equipped with a dip tube to produce a ready-to-use 250 to 350 gram block of dry ice in only a few minutes.

- Each 50 lb. cylinder makes from 10-16 blocks of dry ice
- Dry ice production can be viewed through the transparent polycarbonate body that secures without clamps, screws or tools ensuring easy removal of the solid block of dry ice and disconnection from the CO₂ cylinder
- Lightweight body is never as cold as the dry ice; allows safe transport of the unit and contents when wearing appropriate gloves
- Rugged nickel-plated "pigtail" connects it to the CO₂ cylinder valve which is used to regulate gas flow
- Operates at very low pressure (displayed on the built-in dial gauge); incorporates multiple pressure relief safeguards
- Includes a 6 ft. (1.8 m) nickel-plated copper connecting tube with standard CGA 320 thread coupling for easy attachment to a LCO₂ cylinder

Cat. No. Mfr. No. Description Qty.

P1228-15 388740000 Dry Ice Maker with valve attached - $5\frac{5}{8} \times 7\frac{1}{8} \times 6\frac{1}{2}$ in. (14.4 x 19.4 x 16.5 cm) 1/ea

Eppendorf® IsoTherm Iceless Cold Storage System

EPPENDORF - The IsoTherm-System® specializes in cooling samples effectively and constantly at -21°C or 0°C over many hours. It consists of the following components: the IsoRack (work rack), IsoPack (cool pack) and IsoSafe (insulating box). The IsoTherm System® can be used as an enzyme bar to prevent enzymes from becoming inactive as well as for PCR sample preparation, sample transport and slow thawing of frozen samples. Holds 24 reaction tubes (0.5/2 mL).



Choose the complete system or combination set with IsoPack cool pack and IsoRack rack. The white cool pack will maintain 0°C for up to 6 hrs., while the blue pack will maintain -21°C for up to 3 hrs. Racks can be centrifuged and are stackable, autoclavable and floatable.

Cat. No. Mfr. No. Description Qty.

C3513-2 022510053 System starter set includes IsoSafe, IsoRack, 0°C IsoPack and -21°C IsoPack for 1.5/2 mL tubes 1/ea

IsoPack and IsoRack set includes 1 each

C3513-8 022510282 For 0.5 mL tubes, 0°C 1/ea
C3513-6 022510240 For 1.5/2 mL tubes, 0°C 1/ea



Handheld Homogenizer

CARDINAL HEALTH - The Handheld Homogenizer is designed to rapidly homogenize, emulsify, suspend and disrupt biological samples. It can be used with microtubes and works well with samples from 0.1 mL to 250 mL (depending upon the generator probe used).

The Cardinal Health™ Handheld Homogenizer works by drawing the sample, in liquid, into the generator probe with the variable speed rotor and then forcing it out through the slots in the stator. As the sample is repeatedly drawn up and forced through the stator, additional shearing takes place. It offers speeds up to 8,500 to 30,000 rpm and speed is adjustable in six steps.

Generator probes are available in four sizes. The 5 mm and 7 mm diameter probes are 50 mm long and designed for use in microtubes. One of each of these is supplied with the unit. The optional 10 x 115 mm probe is ideal for use with 15 and 50 mm tubes while the 14 x 130 mm probe is for 50 mL tubes and vessels up to 250 mL. The probes are made of stainless steel and can be sterilized by autoclaving.

Specifications:

Speed range	8,500 to 30,000 rpm
Capacity	0.1 to 250 mL
Included probes	5 mm flat and 7 mm saw tooth
Electrical requirements.....	115 V, 50/60 Hz
Dimensions (W x D x H)	1.8 x 2.3 x 9 in. (4.5 x 5.8 x 22.5 cm)
Weight	1.35 lbs. (0.62 kg)
Warranty	Two-year

Cat. No.	Description	Qty.
CHD1000	Hand-Held Homogenizer, supplied with one 5 mm flat bottom probe and one 7 mm saw tooth probe	1/ea
CHD100M10	Optional generator 10 x 115 mm saw tooth, for 15 and 50 mL tubes	1/ea
CHD1000M1	Optional generator 14 x 130 mm saw tooth, for 50 to 250 mL vessels	1/ea
CHD1000M5	Replacement generator, 5 x 50 mm flat bottom, for microtubes, 5 pk	1/ea
CHD1000M7	Replacement generator, 7 x 50 mm saw tooth, for microtubes, 5 pk	1/ea
CHD1000ST	Stand for hand-held homogenizer	1/ea



Microtube Homogenizer

CARDINAL HEALTH - The Microtube Homogenizer provides extremely powerful mixing action for cell lysis. It effectively addresses the cross contamination associated with handheld homogenizers. The optimal mixing motion causes rapid cell disruption through constant high velocity impact from the hardened mico-beads chosen specifically for your sample type.

Features include:

- Process up to 3 x 2 mL non-skirted tubes simultaneously
- Small footprint on the bench – 7 x 8 in.
- Homogenization often takes place within 45 seconds
- Faster and more effective than tissue grinders.

Specifications:

Speed range	2,800 to 4,000 rpm
Capacity	3 x 2 mL (screw cap/non-skirted)
Timer	3 seconds to 3 minutes
Electrical requirements.....	115 V, 50/60 Hz
Dimensions (W x D x H)	6.9 x 8.3 x 5.3 in. (17 x 21 x 13.5 cm)
Weight	5 lbs. (2.2 kg)
Warranty	Two-year

Cat. No.	Description	Qty.
CHD1030	Microtube Homogenizer	1/ea
Prefilled tube kits - 2 mL non-skirted tubes with screw caps, sealing rings and beads specified below		
CHD1031-01	Silica glass beads 0.1 mm - 50/pk	1/ea
CHD1031-05	Silica glass beads 0.5 mm - 50/pk	1/ea
CHD1031-10	Silica glass beads 1 mm - 50/pk	1/ea
CHD1033-28	Stainless steel beads 2.8 mm - 50/pk	1/ea
CHD1032-01	Zirconium beads 0.1 mm - 50/pk	1/ea
CHD1032-05	Zirconium beads 0.5 mm - 50/pk	1/ea
CHD1032-10	Zirconium beads 1 mm - 50/pk	1/ea
CHD1032-15	Zirconium beads 1.5 mm - 50/pk	1/ea
CHD1032-30	Zirconium beads 3 mm - 50/pk	1/ea
CHD1032-SK	Zirconium beads starter kit -10 ea of 0.1, 0.5, 1, 1.5 and 3 mm	1/ea

Accessories

CHD1031T21	Empty 2 mL tubes with caps and sealing ring - 50/pk	1/ea
CHD1031T20	Empty 2 mL tubes with caps and sealing ring - 1,000/pk	1/ea
CHD1031ST2	PCR clean screw cap tubes 2 mL - 500/pk	1/ea

General Lab

Miscellaneous



Lockboxes with Urethane Foam Insulation

CARDINAL HEALTH - These lockboxes will keep your sensitive specimens safe during storage and transport and cool for hours. When outdoor temperatures fall to 15°F (-9°C), hematology specimens stored in an insulated steel lockbox can freeze and hemolyze in as little as 15 minutes. Using the Cardinal Health™ Lockbox keeps your samples safe for 3.5 hours. Unmatched urethane insulation properties guarantee the highest sample integrity possible. Comes standard with traditional lock and set of keys. Additional accessories are below.

- UV and moisture resistant
- Recessed lock to prevent icing
- Retractable handle
- Lockbox 20 has sample guard to prevent specimen from falling out

Specifications:

Time to overheat 24 hours at 100°F (38°C) outside temperature with cold pack
Time to freezing 3.5 hours at 15°F (-9°C) outside temperature
Dimensions (H x W x D) Lockbox 10 - 13½ x 12 x 12½ in.
Lockbox 20 - 14 x 15 x 8 in.
Internal volume Lockbox 10 - 868 in., Lockbox 20 - 570 in.

Cat. No.	Description	Qty.
CA071104	Lockbox 10 - 8½ lbs.	1/ea
CA078104	Lockbox 20 - 11½ lbs.	1/ea

Locks

3100120056	Key (replacement)	1/ea
3100120052	Combination lock	1/ea

Anti-theft devices

200400003	Anchor bracket kit (use with cable)	1/ea
3100120054	Anchor cable - 6 ft.	1/ea
200400007	Door hanging bracket - 24 in., Lockbox 20 only	1/ea
78109000	Door hanging bracket - 36 in., Lockbox 20 only	1/ea
200400002	Under door bracket kit	1/ea
200400009	Wall mounting kit (bracket and screws), Lockbox 20 only	1/ea

Additional accessories

3100120053	Cold pack - 6 x 9 x 0.8 in.	1/ea
3100120039	False bottom for cold pack, Lockbox 10 only	1/ea
200400004	Rubber feet kit (includes mounting hardware), Lockbox 10 only	1/ea

Microsterilizer

CARDINAL HEALTH - The Microsterilizer offers sterilization in 5 to 7 seconds. It is safe, convenient and has no spatter. This microsterilizer is ideal for platinum loops and needles. It has an asbestos-free core element that quickly heats to 815°C (1,500°F). A low temperature setting (500°C) can be used as a "standby" setting which extends the usable life of the heating element. The ceramic heating element is safely enclosed in a perforated stainless steel guard chamber to protect users from accidental contact with extreme temperatures.



Specifications:

High temperature setting	1,500°F (815°C)
Low temperature setting	950°F (500°C)
Chamber diameter	0.55 in. (14 mm)
Chamber length	6 in. (153 mm)
Sterilization time	5 to 7 seconds
Power requirements	115 V, 50/60 Hz
Exterior dimensions (W x D x H)	4 x 6 x 6.5 in. (10.2 x 15.2 x 16.5 cm)
Weight	2.9 lbs. (1.3 kg)
Warranty	One-year

Cat. No.	Description	Qty.
CHB1000	Microsterilizer	1/ea
CHB1000-01	Loop holder attachment	1/ea
CHB1000-03	Slide dryer attachment	1/ea
CHB1000-RA	Replacement heating element, 115 V	1/ea
CHB1000-RE	Replacement heating element, 230 V	1/ea

Bacti-Cinerator™ IV Sterilizer

LEICA BIOSYSTEMS - Conveniently and efficiently sterilize inoculating loops, needles and culture tube mouths with these sterilizers. Units kill microorganisms utilizing infrared heat produced by a ceramic core element with no asbestos, ensuring sterility and helping to prevent splatter across the work area.



Complete sterilization is achieved within 5 to 7 seconds at a temperature of 1,500°F. Featuring a small footprint, the units are ideal for both anaerobic and aerobic chambers. Select from models configured for different voltages. Replacement heating elements are also available separately. Sterilizer dimensions (L x W x H): 7 x 3 x 9 in.

Cat. No.	Mfr. No.	Description	Qty.
MS004002	39004002	120 V sterilizer	1/ea
MS001373	39001373	Replacement heating element 120 V	1/ea



MicroBead Bead Sterilizer

BENCHMARK - MicroBead Sterilizer has digital control up to 300°C. Quickly sterilizes forceps, needles and other laboratory tools. Eliminates the danger associated with open flames.

Specifications:

- Temperature range 100°C to 300°C
- Preheat Time Approx. 25 min. (to 300°C)
- Chamber Diameter 40 mm
- Power requirement 115 V or 230 V, 50/60 Hz

Cat. No.	Mfr. No.	Description	Qty.
C3137BS	C3137	Sterilizer, glass beads, 115 V	1/ea
C3138BS	C3138	Sterilizer, glass beads, 230 V	1/ea
C3139BS	C3139	Sterilizer, tall, glass beads, 115 V	1/ea
C3140BS	C3140	Sterilizer, tall, glass beads, 230 V	1/ea
C3141BS	C3141	Refill glass beads, 3 mm, 1,000 g	1/ea



Multi-Remote Environment Monitoring Station

CARDINAL HEALTH

- **NIST Compliant® with certificate**
- LCD displays temperature and humidity with comfort level
- Local/remote temperature min/max memory with time stamp
- °C/°F switchable
- Relative Humidity (RH) percent with min/max memory
- Wireless monitor up to three remote transmitters
- Relative atmospheric pressure with adjustable reference value
- Graphic display of relative air pressure for last 12 hours
- Weather forecasting with weather tendency indicator
- Radio controlled clock, date, time zone
- 12/24 hour time display
- Time zone option ±12 hours
- Weekday and day calendar display
- Two AA 1.5 V batteries for each base and remote

Specifications:

Transmission 868 MHz - max distance 300 ft. (91.44m)

Base Station:

Temperature range ... -10°C to 60°C (14°F to 140°F) 0.1°C (0.2°F) resolution
Humidity range 1% to 99% RH with 1% resolution

Remote Transmitter:

Temperature range ... -40°C to 60°C (-40°F to 140°F) 0.1°C (0.2°F) resolution

Cat. No.	Description	Qty.
CH4195	Multi-Remote Environment Monitoring Station	1/ea



Dial Barometer Thermometer/Hygrometer

CARDINAL HEALTH

- **NIST Compliant® with certificate**
- Min/max with memory recall

Specifications:

Temperature range -10°C to 55°C
Humidity range 20% to 100% RH

Cat. No.	Description	Qty.
CH2504-1	Dial barometer thermometer/hygrometer	1/ea

General Lab

Miscellaneous



FlaskScrubber® Glassware Washers

LABCONCO - These washers, are designed to wash and dry narrow-neck and general purpose labware. They have a lower spindle rack of Type 304 stainless steel, that holds up to 36 pieces of primarily narrow-neck glassware such as volumetric flasks. Water and detergent are pumped through the spindles to reach the innermost areas of your glassware. Forced air drying through the spindles ensures thorough drying inside and out. Specialized inserts for pipets, BOD bottles, petri dishes, culture tubes and small utensils enhance the FlaskScrubber's versatility. The washer may be outfitted with an upper standard or spindle rack to increase capacity. In addition, a lower standard rack may be used instead of the lower spindle rack. (Additional racks and accessory inserts are sold separately).

Features:

- Water temperature reaches 82°C (180°F) on 115 V models to sanitize glassware and for enhanced washing and faster drying
- LCD information center for customizing cycles and monitoring operation, including internal water temperature (°C or °F)
- Dual pumps, one for washing and one for draining, to reduce potential for cross contamination
- Purified water pump to bring non-pressurized or pressurized purified water into the tank for up to six pure water rinses
- Steam generator that produces hot vapor to penetrate and remove dried residue for cleaner glassware
- Forced air drying into the tank up to 250 minutes and programmable from 38 to 70°C (100 to 158°F)
- All 115 V models have seven programs: Rinse Only, Plastic, Glass, Glass Plus, Science, Science Plus and Dry Only.
- Two user-set cycle programs
- Programs may be locked to prevent unauthorized changes
- User-set delayed start (up to 8 hours)
- Includes lower spindle rack, 36 detachable large spindles, 18 glassware holders, 36 clips and 10 additional interchangeable small spindles

Cat. No.	Mfr. No.	Description	Qty.
W1852-73	4420420	Freestanding washer - 115 V, 60 Hz	1/ea
W1852-69	4420320	Undercounter washer - 115 V, 60 Hz	1/ea



Undercounter SteamScrubber® Glassware Washer

LABCONCO - These washers, are designed to wash and dry general purpose labware. They have stainless steel top and bottom racks that accommodate basket inserts for a wide variety of glassware shapes and sizes, primarily beakers and other wide-mouth glassware. Specialized inserts for BOD bottles, petri dishes, culture tubes and small utensils enhance the SteamScrubber's versatility. In addition, the SteamScrubber accommodates upper and lower spindle racks. (Additional racks and basket inserts are sold separately).

Features:

- Water temperature reaches 82°C (180°F) on 115 V models to sanitize glassware and for enhanced washing and faster drying
- LCD information center for customizing cycles and monitoring operation, including internal water temperature (°C or °F)
- Dual pumps, one for washing and one for draining, to reduce potential for cross contamination
- Purified water pump to bring non-pressurized or pressurized purified water into the tank for up to six pure water rinses
- Steam generator that produces hot vapor to penetrate and remove dried residue for cleaner glassware
- Forced air drying up to 250 minutes and programmable from 38°C to 70°C (100°F to 158°F)
- All 115 V models have seven programs: Rinse Only, Plastic, Glass, Glass Plus, Science, Science Plus and Dry Only.
- Two user-set cycle programs
- Programs may be locked to prevent unauthorized changes
- User-set delayed start (up to 8 hours)
- Includes upper and lower standard open racks

Cat. No.	Mfr. No.	Description	Qty.
W1852-61	4400320	Undercounter glassware washer - 115 V, 60 Hz	1/ea

Mixer

CARDINAL HEALTH - Featuring touch or continuous operation, our general purpose mixer provides smooth vortexing for even large sample sizes, including full 50 mL tubes. The unique counter balance system creates maximum vortexing action, while minimizing noise and excessive vibration. This results in quieter, more efficient and longer lasting operation. Other features include no-walk suction feet and spill-proof electronic controls.

**Specifications:**

Speed range	200 to 3,200 rpm
Operating modes	Touch or continuous
Orbit	3 mm
Electrical.....	115 V, 60 Hz
Operating temp. range.....	+4°C to +45°C
Dimensions (W x D x H)	5.2 x 6.7 x 6.7 in. (13 x 17 x 17 cm)
Weight	8.4 lbs. (3.8 kg)
Warranty	Two-year

Cat. No.	Description	Qty.
CHV1000	Mixer with standard cup head	1/ea

Multi-Head Mixer

CARDINAL HEALTH - More than your standard mixer, the unique head design features a traditional cup for general purpose mixing, plus holders for up to eight microcentrifuge tubes. A dynamic balanced drive system provides smooth vortexing action while minimizing noise and excessive vibration. Increased speed, up to 3,400 rpm, produces an instant vortex for all tubes, up to 50 mL. Other features include no-walk suction feet and spill-proof electronic controls.

**Specifications:**

Speed range	200 to 3,400 rpm
Operating modes	Touch or continuous
Orbit	3 mm
Electrical.....	115 V, 60 Hz
Operating temp. range.....	+4°C to +45°C
Dimensions (W x D x H)	5 x 6.3 x 6.7 in. (13 x 16 x 17cm)
Weight	8.4 lbs. (3.8 kg)
Warranty	Two-year

Cat. No.	Description	Qty.
CHV1005	Multi-head mixer	1/ea

Rotating Mixer

CARDINAL HEALTH - Gentle to vigorous mixing of lab samples is provided by the Rotating Mixer. It is ideal for a variety of applications from mixing blood samples to the preparation of homogeneous dispersions. A unique reversing mode provides for increased agitation, the mixer rotates for up to 360° then stops and rotates in the reverse direction.



- Adjustable speed and tilt
- Cold room and incubator safe
- Includes three rotisseries for all common tube sizes; 48 x 1.5/2 mL, 20 x 15 mL, 12 x 50 mL

Specifications:

Speed range	Variable, 1 to 40 rpm
Tilt angle	Variable, 0° to 90°
Capacity.....	48 x 2 mL, 20 x 15 mL or 12 x 50 mL
Timer.....	1 second to 9 hours or continuous
Electrical.....	100–240 V, 50/60 Hz
Operating temp. range....	+4°C to +65°C
Dimensions (W x D x H) ...	8.25 x 10.5 x 12.5 in. (21 x 27 x 32 cm)
Weight	7 lbs. (3.2 kg)
Warranty	Two-year



Cat. No.	Description	Qty.
CHR5010	Rotating Mixer with 3 rotisserie tube holders	1/ea

Mini Vortexer

CARDINAL HEALTH - With a 4 mm orbit and fixed speed of 2,800 rpm, the Mini Vortexer vortexes even large samples, including nearly full 50 mL tubes. A complement to its powerful motor, the Mini Vortexer has a small footprint of less than 4 x 4 in., allowing it to fit on crowded benches. Pressure activated operation means that the motor is automatically started with slight pressure on the center cup head. Operation is smooth, quiet and efficient. When pressure is removed, operation ceases. The unique head design prevents liquid from entering the housing, prolonging motor life.

**Specifications:**

Fixed speed.....	2,800 rpm
Motor activation	Touch
Orbit	4 mm
Electrical.....	100–240 V, 50/60 Hz
Operating temp. range.....	+4°C to +45°C
Dimensions (W x D x H)	3.7 x 3.9 x 2.6 in. (9.4 x 9.9 x 6.6 cm)
Weight	1 lb. (0.4 kg)
Warranty	Two-year

Cat. No.	Description	Qty.
CHV101-R	Mini Vortexer with red cup head	1/ea

General Lab

Mixers



GyroMini™ 3-D Nutating Mixer

AZER SCIENTIFIC - This mixer combines the actions of an orbital shaker with a rocker to provide gentle and thorough 3-D mixing without foaming. Ideal for use with blood and centrifuge tubes and for resuspending large, fragile DNA fragments. Mixer has a fixed 20° pitch and can hold a maximum load of 1.75 lbs. Supplied with a dimpled mat to hold tubes in place. Fixed speed and pitch. Safe for cold room use.

Specifications:

Maximum speed 24 rpm
Operating conditions Ambient 4°C to 65°C
Power requirements 120 V, 60 Hz

Dimensions

Platform 9.5 x 6.75 in.
Overall (W x D x H) 9.5 x 6.75 x 6 in.

Cat. No.	Mfr. No.	Description	Qty.
ESS0500	ESS0500	3-D Nutating Mixer	1/ea

Vortex Mixer

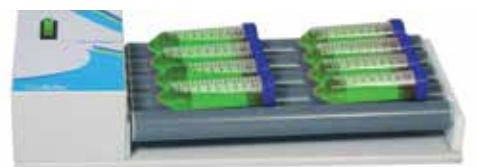
AZER SCIENTIFIC - This variable speed vortex mixer provides smooth instant vortexing of even the largest sample sizes, including full 50mL tubes. Variable speed control from 0 to 2,500 rpm. The unique counter balance system creates maximum vortexing action, while minimizing noise and excessive vibration. The steel base and silicone feet also provide stability and vibration damping. This results in quieter, more efficient and longer-lasting operation.



Specifications:

Maximum speed 2,500 rpm
Operation mode Touch or continuous
Dimensions 6 x 6 x 7 in.
Electrical 110 V, 60 Hz

Cat. No.	Mfr. No.	Description	Qty.
ES3362	ES3362	Vortex Mixer, variable speed	1/ea



TubeRoller Tilting Tube and Bottle Rollers

BENCHMARK - TubeRollers are designed for the gentle, thorough mixing of a variety of containers, including Vacutainers™, bottles, test tubes, centrifuge tubes and roller bottles. Both models (5 roller and 10 roller) operate at a constant 38 rpm, chosen as the optimum speed for the broadest range of mixing requirements. As the roller mechanism rotates through each complete revolution, the right side of each roller is gently elevated approximately 0.5 in. (13 mm) and returns to the horizontal starting position. This additional, gentle up/down motion provides a "wave" effect and guarantees that the entire sample is subjected to complete, thorough mixing, end to end. From blood collection tubes to roller bottles, Benchmark TubeRollers are the ideal choice for research, clinical laboratories and doctors' offices.

Specifications:

Speed Fixed, 38 rpm ($\pm 10\%$)
Motion Simultaneous roll and tilt ($\pm 5^\circ$)
Operating temperature 4°C to 40°C
Vessels accepted 8 to 200 mm diameter
Power requirement 115 V or 230 V, 50/60 Hz, 50 W

Cat. No.	Mfr. No.	Description	Qty.
C3133BS	C3133	TubeRoller with 5 rollers, 115 V	1/ea
C3134BS	C3134	TubeRoller with 5 rollers, 230 V	1/ea
C3135BS	C3135	TubeRoller with 10 rollers, 115 V	1/ea
C3136BS	C3136	TubeRoller with 10 rollers, 230 V	1/ea

Tap Dancer Mini Vortex Mixer

BOEKEL - This compact mixer features a low profile and small footprint, a pressure-sensitive cup, continuous or touch operation capabilities and rubber suction pads to prevent walking and absorb vibration. It uses a low-voltage supply, which makes it safe for cold room use.



Specifications:

Speed 300 to 6,000 rpm
Orbit 2 mm
Maximum tube diameter 20 mm
Dimensions (W x D x H) 3 1/4 x 5 3/4 x 3 in.
Power requirements 12 V, 0.5 A

Cat. No.	Mfr. No.	Description	Qty.
S8250-4A	270100	Mini Vortex Mixer	1/ea

Turbo Mixer

LW SCIENTIFIC - This turbo mixer features variable speed control, continuous operation and suction-cupped feet. Soft, rubber cup head is for single tube mixing. Maximum speed: 3,000 rpm.



Cat. No.	Mfr. No.	Description	Qty.
R4199-1	MXL-TMV7-7RC1	Turbo Mixer with mixing cup	1/ea



Mini Vortex Mixers

OHAUS - Mini Vortex Mixer models for gentle to high-speed reliable mixing. Non-digital model offers variable speed control, and digital model allows input of the exact speed and time to achieve repeatable results every time. Pulsing model features a unique pulse action that reduces heat generation, while providing more effective mixing and cell disruption. Fixed speed model offers simple one-touch, high-speed mixing for repeat applications.

Standard Features:

- Touch mode operation activates mixing when depressing the cup head or continuous mode for use with accessory attachments. Sturdy, rugged design ensures the unit stays in place while in use.
- Robust digital and non-digital Vortex Mixers offer effective speed control from low RPM start-up for gentle shaking to high-speed mixing for vigorous vortexing of samples.
- The fixed speed Vortex Mixer is an economical choice for vigorous mixing of samples at high speed. To ease repetitive sample processing, this unit provides simple, effective full-speed mixing.

Specifications:

Orbit	0.2 in (4.9 mm)
Capacity	0.5 kg
Speed range	(30392108) fixed speed: 3,200 rpm (30392115) analog: 300 to 3,200 rpm (30392122) digital: 500 to 3,000 rpm
Power requirements	120 V, 50/60 Hz, 135 W, 1.2 A
Dimensions (W x D x H)	4.8 x 8.3 x 6.5 in.
Weight	9.7 lb. (4.4 kg)

Cat. No.	Mfr. No.	Description	Qty.
9456TAFSUS	30392108	Fixed speed vortex mixer	1/ea
9456TAALUS	30392115	Analog vortex mixer	1/ea
9456TADGUS	30392122	Digital vortex mixer	1/ea



Multi-Tube Vortexers

OHAUS - Multi-Tube Vortexers are ideal for high throughput sample processing. Interchangeable foam racks for vortexing tubes from 10 to 29 mm in diameter are available. Vortexing action is created by securing the top of the sample in place while allowing the bottom to rotate freely in a 3.6 mm orbit. Suction cup feet reduce motion and prevent sliding on work surface. Analog and digital models are both microprocessor-controlled and run in continuous or timed mode.

Standard Features:

- Improve efficiency by processing up to 50 samples at a time
- Digital models ideal for applications that require accuracy and repeatability. Digital models feature touchpad control for easy input of settings, and independent LED displays for speed/time. Timer displays elapsed time and when programmed, shuts off unit when time reaches zero.
- Pulsing mode on digital models to enhance vortexing action. Digital models feature a programmable pulse mode which allows the user to adjust the pulse-on/pulse-off times between 1-59 second intervals, enhancing the vortex action by creating a more vigorous mix.
- Analog model offers an economical alternative when exact speed/time not required. The variable speed microprocessor control provides consistent uniform mixing action. Basic speed and time settings are adjusted with knobs using 1 to 10 dial settings.
- One-piece stainless steel housing design optimizes clean-ups. All models feature a one piece, stainless steel housing and are ideal for use in clean rooms and any work where clean-up is critical.

Specifications:

Capacity	10 lb. (4.5 kg)
Orbit	0.1 in. (3.6 mm)
Power requirements	120 V, 50/60 Hz, 5 A, 100 W
Tray size (L x W)	7.25 x 12.25 in.
Dimensions (W x D x H)	15.1 x 9.5 x 16 in.

Operating speed

Analog units	1,200 to 2,400 rpm
Digital units	500 to 2,500 rpm

Cat. No.	Mfr. No.	Description	Qty.
S8284-1	30392164	Analog vortexer	1/ea
TR-945065	30392171	Digital vortexer	1/ea

General Lab

Mixers

Thermo Scientific™ MaxiMix® I Vortex Mixer

THERMO FISHER SCIENTIFIC - Ideal for enzymatic and RIA assays, general test tube mixing, biochemical assays, viral dilution preparations, precipitated assays, cell suspension vortexing and tissue sample mixing. Excellent for single and multiple tubes and small flasks with closed tops.

- Fast, uniform mixing in continuous operation or touch-on mode
- Simultaneously mixes up to four test tubes
- Push-button top-mounted ON/OFF switch
- Vary vortex mixing by simply changing pressure of tube against foam rubber top
- Cast-aluminum base with suction-cup rubber feet provides maximum stability
- Compact design with 4 in. diameter (10.2 cm) foam rubber top



Specifications:

Speed range 3,000 rpm
Platform, foam pad 4 in. (10.1cm)
Exterior (L x W x H) 5.5 x 5.5 x 4.2 in. (13.9 x 13.9 x 10.6 cm)

Cat. No.	Mfr. No.	Description	Qty.
M16715Q	M16715Q	MaxiMix® I Vortex Mixer	1/ea

Thermo Scientific™ MaxiMix® III Vortex Mixer

THERMO FISHER SCIENTIFIC - Choose the MaxiMix® III mixer with its distinct, interchangeable holders to handle a complete range of laboratory mixing needs. Versatility of speed selection is ensured through precise matching of an electronic speed control to a high torque DC motor drive.

Rotary shaker combines a heavy cast-aluminum base with a counterbalance system to help eliminate creeping and walking of the unit, even when mixing a large volume. The springs in the legs are short, improving the stability of the unit at high speeds. Permanently lubricated, ball bearing motor and drive system guarantee for continuous trouble-free operation of loads up to 5 lbs. (2.2kg).

A lighted on/off switch indicates when the shaker is in operation. The interchangeable holders for holding a variety of vessels can be mounted or removed in seconds with the unit's three-point fastening system. Soft rubber plate for vortexing tubes is included.

Specifications:

Ambient temperature range 5°C to 40°C
Operating speed 100 to 2,200 rpm
Relative humidity 0% to 80%
Mixing surface (W x L) 6.25 x 5.5 in.
Overall (W x H x D) 6.50 x 5.13 x 8.5 in.

Cat. No.	Mfr. No.	Description	Qty.
S8249-2	M65825	MaxiMix® III Vortex Mixer	1/ea

Thermo Scientific™ Speci-Mix™ Mixer

THERMO FISHER SCIENTIFIC - This precision-controlled platform mixer provides a smooth rocking motion for consistently uniform specimen suspension. Features a preset 18 rpm motor speed and a preset 48° angle mixing zone. The reversible pad features one side for capped tubes 110 mm long while the opposite side accommodates longer tubes. A white silicone rubber friction grip pad contrasts specimens and labels for easy viewing. Capped tubes can be easily loaded or unloaded without turning off the mixer. Include three-wire cord and plug.



Specifications:

Operating speed 18 rpm
Capacity 8 tubes: 10 to 20 mm; 3 tubes: 22 to 30 mm
Mixing surface (D x W) 4½ x 6 in.
Dimensions (W x H x D) 7½ x 4.3 x 5½ in.

Cat. No.	Mfr. No.	Description	Qty.
R4189-2	M71015Q	Half-size mixer	1/ea



Thermo Scientific™ Vari-Mix™ Test Tube Mixer

THERMO FISHER SCIENTIFIC - The adjustable-speed motor of this mixer lets you choose from 2 to 20 rpm. Adjustable mixing platform of 1° to 48° angle. The precision-controlled platform mixer helps ensure smooth rocking action for consistently uniform specimen suspension. The reversible pad provides one side for capped tubes 110 mm long (lip on end of pad prevents tubes from sliding) and another side for longer tubes. A friction-grip white silicone rubber pad creates a contrast between specimens and labels for easy viewing. Load and unload capped tubes easily without turning off mixer. The mixer is compact, attractive and easy to clean. The exterior case is protected by a baked-on enamel finish.

Specifications:

Operating speed 2 to 20 rpm
Capacity 16 tubes: 10 to 20 mm; 7 tubes: 22 to 30 mm
Mixing surface (W x L) 4.5 x 12 in.
Dimensions (W x H x D) 15 x 4.25 x 5.5 in.

Cat. No.	Mfr. No.	Description	Qty.
R4188-1	M48725Q	Test tube mixer	1/ea

**Rock-IT™ Tube Mixer**

UNICO - This heavy-duty tube mixer provides smooth and gentle movement at 25 rpm to assure a uniform, thoroughly mixed specimen, while preserving the integrity of the fragile blood cells. It will also get hematology controls ready to use in no time for accurate results. The oversized platform will accommodate larger and hard-to-mix tubes. The mixer is a compact size that uses minimal benchtop space. It features a nonslip, reversible and autoclavable tube pad made of silicone rubber.

Specifications:

Maximum capacity 15 x 120 mm tubes

Maximum speed 25 rpm

Cat. No.	Mfr. No.	Description	Qty.
L-TTR200	L-TTR200	15-place tube mixer	1/ea
LTR200-1	L-TTR200-1	Replacement tube pad - 15-place	1/bx

**Nutating Rocker**

CARDINAL HEALTH - The platform rocker provides a 3-dimensional "nutating" motion for moderately aggressive mixing. The platform size and rubber mat configuration allow for foam-free mixing in blood tubes and centrifuge tubes as well as in a variety of flat vessels. The supplied, autoclavable, dimpled mat holds tubes securely in place on its large, 12 x 12 in. surface. The maintenance-free, brushless motor is capable of handling loads up to 1.8 kg.

Specifications:

Speed Fixed, 24 rpm

Tilt angle Fixed, ±20°

Capacity 4 lbs. (1.8 kg)

Electrical 115 V, 50/60 Hz

Operating temp. range +4°C to +65°C

Platform size (W x D) 12 x 12 in. (30 x 30 cm)

Dimensions (W x D x H) 12 x 12 x 8 in. (30 x 30 x 20 cm)

Weight 4.4 lbs. (2 kg)

Warranty Two-year

Cat. No.	Description	Qty.
CH3D1320	Nutating Rocker	1/ea

**3D Rocker**

CARDINAL HEALTH - 3D Rocker is designed to provide the speed and tilt angle required for a broad range of molecular and biological mixing applications. The user can adjust both parameters to match the vessel size and the volume of liquid being mixed, yielding high-quality results. The rocking speed is easily set using the front knob while the tilt angle can be changed without tools or disassembly — simply grip the platform and move to the desired angle. Low speeds and a minimal tilt angle create a gentle wave motion required for most blot washing. Higher speeds and steeper angles produce more aggressive agitation for vigorous sample mixing. 3D Rocker comes standard with autoclavable dimpled and flat mats and maintenance-free, brushless motors.

Specifications:

Speed range Variable, 2 to 30 rpm

Tilt angle ± 30°

Capacity 5 lbs. (2.3 kg)

Electrical 115 V, 50/60 Hz

Operating temp. range +4°C to +65°C

Platform Dimensions (W x D) 12 x 12 in. (30 x 30 cm)

Exterior Dimensions (W x D x H) 12 x 12 x 8 in. (30 x 30 x 20 cm)

Weight 7.5 lbs. (3.4 kg)

Warranty Two-year

Cat. No.	Description	Qty.
CH3D2300	3D Rocker with dimpled and flat mats	1/ea

**Tube Rocker**

CARDINAL HEALTH - The Tube Rocker is designed to provide the speed and tilt angle (24 rpm/30°) for gentle agitation of sample tubes. The grooved design of the included rubber mat properly secures all tube sizes ranging from 1.5 to 50 mL, without the use of added straps or bands. No complicated controls, settings or adjustments to be made; just press the power switch and let it rock. Small in size (only 5.3 x 13.3 in.) and able to withstand temperatures from 4°C to 65°C, our tube rocker is small enough to fit on any lab bench.

Specifications:

Speed Fixed, 24 rpm

Tilt angle Fixed, ±30°

Capacity 30 x 1.5/2 mL, 15 x 5 mL, 7 mL, 10 mL or 15 mL*, 8 x 50 mL

Electrical 115 V, 50/60 Hz

Operating temp. range +4°C to +65°C

Platform Dimensions (W x D) 12 x 4.5 in. (30 x 11.4 cm)

Exterior Dimensions (W x D x H) 13.3 x 5.3 x 4 in. (33.6 x 13.5 x 10 cm)

Weight 4 lbs. (1.8 kg)

Warranty Two-year

Cat. No.	Description	Qty.
CHM2100	15-place compact rocker with grooved mat	1/ea

*15 mL blood collections tubes (16 x 125 mm) extend off the platform surface.

General Lab

Rockers



BenchRocker™ 2D Variable Speed Rocker

BENCHMARK - The BenchRocker 2D is designed to provide the precise speeds and tilt angles required for a broad range of molecular and biological mixing applications. The user can adjust both parameters to match the vessel size and the volume of liquid being mixed, yielding optimum results.

Specifications:

Speed range Variable, 2 to 30 rpm
Tilt angle Variable, 0° to ± 30°
Operating temperature +4°C to +45°C
Load capacity 8 lbs. (3.6kg)
Platform size 14 x 12 in.
Dimensions: (W x D x H) 14 x 12 x 8 in.
Power requirement 115 V or 230 V, 50/60 Hz, 50 W

Cat. No.	Mfr. No.	Description	Qty.
C3105BS	C3105	BenchRocker 2D variable, 115 V	1/ea
C3106BS	C3106	BenchRocker 2D variable, 230 V	1/ea



Rocker II™ Model 260350

BOEKEL - Accepts a wide variety of flasks, plates and tubes. Adjust tilt angle and speed without the need for tools. Supplied with flat non-skid mat. 2-year warranty. Applications include gel staining and destaining; northern, southern and western blots; mixing test tubes and rocking agglutination card. Power pac is UL, CSA and CE approved.

Specifications:

Load capacity 2.7 kg (6 lbs.)
Adjustable tilt angle 0° to 20°
Adjustable speed 3 to 25 rpm
Operating temperature range 4°C to 40°C
Dimensions with platform (W x D x H) 12 x 12 x 7 in.

Cat. No.	Mfr. No.	Description	Qty.
260350	260350	Rocker II™	1/ea



LW-100 Blood Rocker

LW SCIENTIFIC - Gently rock blood sample tubes and small vials with this rocker. The gentle motion helps provide mixing without damage to fragile cell suspensions. It features a space-saving design. A rubber cushion pad prevents test tubes from slipping and can be easily removed for cleaning.

Specifications:

Capacity 16 tubes
Speed 24 rpm at 60 Hz, 20 rpm at 50 Hz
Tilt angle 27°
Dimensions (H x L x W) 4 x 13½ x 5¼ in.
Platform dimensions (W x D) ... 12 x 4½ in.

Cat. No.	Mfr. No.	Description	Qty.
R3401-1	MXL-BLF7-16T1	Blood Rocker	1/ea



Thermo Scientific™ Vari-Mix™ Platform Rocker

THERMO FISHER SCIENTIFIC - Utilize the steep angle rocking of the Thermo Scientific™ Vari-Mix™ Platform Rocker for applications such as hybridization, blotting and staining or destaining gels. Variable speed control provides a gentle to vigorous wave motion. The built-in timer makes it easy to perform time-dependent studies.

Specifications:

Temperature range 4°C to 40°C (operating)
Speed range 5 to 30 variable rpm
Rocking angle 1° to 48°
Dimensions (L x W x H) 12 x 15.6 x 7.3 in.

Cat. No.	Mfr. No.	Description	Qty.
M79735Q	M79735Q	Platform rocker - 120 V	1/ea

General Lab

Rotators

Mini LabRoller™ Rotator

AZER SCIENTIFIC - Mix samples in both a horizontal and vertical plane with this rotator. It is incubator- and cold room-safe. The rotator's compact design helps you to conserve valuable benchtop space. Rotator features a fixed speed of 24 rpm and rotating, rocking and tumbling motions that you can adjust by changing the rotisserie position. The Mini LabRoller is supplied with a rotisserie for 36 x 1.5/2 mL tubes. You can also use two microplates on any of the rotissaries.



Specifications:

Maximum speed 24 rpm
Operating conditions Ambient +4°C to 55°C up to 85% RH
Dimensions (W x H x D) 8.4 x 4 x 5 in.
Power requirements 120 V, 50/60 Hz, 0.03 A

Cat. No.	Mfr. No.	Description	Qty.
ESH5500	ESH5500	Rotator	1/ea

Orbitron Rotator

BOEKEL - This benchtop rotator features a 12 x 12 in. square platform and an even smaller footprint to conserve your valuable bench space. It provides gentle, low-foaming agitation and uniform mixing. Applications include immunoassays, hybridizations, mixing of blood samples, coupling affinity chromatography media and DNA extractions. Provides fixed-speed operation for 20 orbits per minute and fixed tilt of 23°. Comes with a removable dimpled pad that accepts many different sizes of tubes at once so you don't need unwieldy racks or clamps. Solid vinyl boot helps ensure long life of rotator mechanism.



Specifications:

Power requirements 120 V, 0.8 A

Dimensions (W x D x H)

Rotator 7½ x 7 x 5 in.
Rotator with platform 12 x 12 x 12 in.

Cat. No.	Mfr. No.	Description	Qty.
R3300-1	260200	Orbitron Rotator	1/ea

Roto-Bot™ Programmable Rotators

BENCHMARK - The Roto-Bot™ rotating mixers feature advanced programming with digital speed control and more than 10 operating modes. The Roto-Bot™ can be selected to perform a wide variety of rotating, mixing and vibrating actions. In addition, these actions can be combined in succession using the C1 and C2 "Custom Modes", providing the user with a nearly infinite level of programming. The Roto-Bot™ and Roto-Bot™ Mini each include an assortment of vertical tube holders. The mini model is supplied with holders for 12 x 1.5 mL tubes, 2 x 15 mL and 2 x 50 mL tubes. The standard model is supplied with holders for 30 x 1.5/2 mL, 8 x 15 mL and 2 x 50 mL tubes. For higher capacity applications, more of these holders can be purchased as accessories. The unique, sliding attachment allows for quick and easy changing of tube holders. For rocking applications, a platform with a non-slip mat is available. Once attached, simply select the "PP" mode to activate the rocking mode.

Specifications:

Speed range 1 to 80 rpm
Capacity (C3107BS) 6 x 50 mL, 10 x 15 mL or 60 x 1.5 mL
Capacity (C3109BS) 12 x 50 mL, 22 x 15 mL or 84 x 1.5 mL
Operating temp. range +2°C to +70°C
Power requirement 100 to 240 V, 50/60 Hz, 3 A

Cat. No.	Mfr. No.	Description	Qty.
C3107BS	C3107	Roto-Bot™ Mini programmable rotator	1/ea
C3108BS	C3108	Roto-Bot™ Mini programmable rotator, 240 V	1/ea
C3109BS	C3109	Roto-Bot™ programmable rotator	1/ea
C3110BS	C3110	Roto-Bot™ programmable rotator, 240 V	1/ea
C3116BS	C3116	Rocking platform for Roto-Bot™ Mini 6 x 5.5 in.	1/ea
C3117BS	C3117	Rocking platform Roto-Bot™, 6 x 10 in.	1/ea



Cat. No.	Mfr. No.	Description	Qty.
Accessories			
C3111BS	C3111	6 x 1.5/2 mL tube holder, pack of 2	1/ea
C3112BS	C3112	1 x 15 mL tube holder, pack of 2	1/ea
C3113BS	C3113	1 x 50 mL tube holder, pack of 2	1/ea
C3114BS	C3114	6 x 15 mL horizontal rotisserie	1/ea
C3115BS	C3115	6 x 50 mL horizontal rotisserie	1/ea

General Lab

Rotators



Variable Speed Mini Orbitron

BOEKEL - Small nutating lab mixer that provides gentle continuous mixing of specimens in blood tubes, microcentrifuge tubes, glass vials, or plates. Low profile and small footprint minimizes bench space. Supplied with a non-slip dimpled mat and a non-slip flat mat. Mats can be cleaned with soap and water and can also be autoclaved.

Specifications:

Variable speed 4 to 24 rpm

Tilt angle Fixed 20°

Load Capacity 1.8 lbs.

Power requirements 115 V, 60 Hz

Dimensions (W x D x H)

Unit 7½ x 5 x 5½ in.

Tray size 9¾ x 5¼ in.

Cat. No.	Mfr. No.	Description	Qty.
201100	201100	Variable Speed Mini Orbitron	1/ea



Platelet Bag Rotators

LW SCIENTIFIC - Widely used in blood banks. Durable construction. Whisper-quiet, heavy-duty motor. Holds up to 48 platelet bags. Variable speed control from 0 to 9 rpm. Stainless steel basket rotates 360° smoothly. Easy loading and unloading. Built-in tachometer allows users to monitor speed easily. **Note:** Does NOT hold large plateletpheresis bags.

Cat. No.	Mfr. No.	Description	Qty.
LWPR-6	RTL-PLV1-12B1	Platelet Rotator, 1 basket, holds 12 platelet bags	1/ea
R3302-3	RTL-PLV3-36B1	Platelet Rotator, 3 baskets, holds 36 platelet bags	1/ea



Digital Serology Rotator

LW SCIENTIFIC - The Serology Rotator is designed to give years of dependable service, even in the busiest laboratory. It's the ideal space-saving instrument for procedures that require constant or timed rotation (mixing) such as RPR, VDRL, EIA, latex tests and for procedures that require a nonstandard speed. Variable speed, timer control and continuous operation. Comes with clear humidity tray.

Specifications:

Load capacity 4.4 lbs. at 20 to 150 rpm
2.2 lbs. at 151 to 240 rpm

Speed 20 to 240 rpm

Timer 99 hours and 99 minute digital timer

Power supply 110 V, 60 Hz

Platform 9 x 9 in. (230 x 230 mm)

Orbit diameter 0.8 in.

Dimensions (W x D x H) 10 x 12 x 5½ in.

Cat. No.	Mfr. No.	Description	Qty.
R3401-2	RTL-BLVD-24T1	Digital rotator - 110 V	1/ea

Thermo Scientific™ Cellgro® Tissue Culture Rotators

THERMO FISHER SCIENTIFIC - These rotators feature variable speed and adjustable angle rotation to give you optimum culture results in applications such as growth of tissues and viruses, hormone production from selected tissues and sample testing for the presence of viruses and cytotoxicity assays. Constructed of durable powder-coated stainless steel, the rotators operate in standard incubators for cultivation under controlled temperature conditions up to 40°C and humidity conditions from 20% to 80% noncondensing. Drums can be lifted off rotors without interrupting operation of the units.



Specifications:

Rotating angle Adjustable 5° above horizontal to 90°

Speed range 12 to 70 rpm

Tube capacity 142 - 16 mm tubes; 76 - 25 mm tubes;
60 - 30 mm tubes

Cat. No.	Mfr. No.	Description	Qty.
T4100-33	1640Q	Single drum	1/ea



UNICO® Digital Rotator

UNICO -This Digital Rotator is a compact, durable, variable speed orbital mixer that will accommodate a wide variety of printed well slides, culture plates, flasks and small test tube racks, as well as RPR and VDRL slides or 96-well microtiter (immunoassay) plates.

- 11 x 11 in. mixing platform with a removable/replaceable rubber pad
- Humidity cover with moisturizing sponge
- Variable speed from 20 to 240 rpm
- Digital timer 0 to 99 hours, 59 minutes
- Three-position switch for: constant on, off, timed mixing
- Digital time and speed display
- Load 4.4 lbs. at 20 to 150 rpm; 2.2 lbs. at 151 to 240 rpm
- Indicator bell at end of timed mixing cycle
- Small flask hold down spring

Cat. No.	Mfr. No.	Description	Qty.
L-RT30C	L-RT30C	Rotator - 10.4 x 9.2 x 6 in.	1/ea

Orbi-Shaker™ JR. Orbital Shaker

BENCHMARK -The Orbi-Shaker™ JR has horizontally circular 19 mm orbit for aeration and mixing. It is extremely compact, perfect for low to medium capacity applications. Instantly exchange flask clamps with MAGic Clamp™ accessories.



Specifications:

- Speed range Variable,
50 to 300 rpm
Motion/orbit Orbital/19 mm
Operating temperature +4°C to +65°C
Load capacity 4 x 1 L or 9 lbs. (4kg)
Platform size 9.5 x 8 in.
Timer 1 min. to 99 hr. or continuous
Dimensions: (W x D x H) 13.1 x 11.7 x 4.7 in.
Power requirement 100–240 V, 50/60 Hz, 250 W

Cat. No.	Mfr. No.	Description	Qty.
C3118BS	C3118	Orbi-Shaker™ JR. 100–240 V	1/ea
C3119BS	C3119	Orbi-Shaker™ JR. European 2 prong plug	1/ea
C3120BS	C3120	MAGic clamp universal platform	1/ea
C3132BS	C3132	Roller platform, adjustable	1/ea

MAGIC Clamp Platform Accessories for Shakers

BENCHMARK

Cat. No.	Mfr. No.	Description	Qty.
C3125BS	C3125	MAGic Clamp magnetic clamp, 50 mL	1/ea
C3124BS	C3124	MAGic Clamp magnetic clamp, 125 mL	1/ea
C3123BS	C3123	MAGic Clamp magnetic clamp, 250 mL	1/ea
C3122BS	C3122	MAGic Clamp magnetic clamp, 500 mL	1/ea
C3121BS	C3121	MAGic Clamp magnetic clamp, 1,000 mL	1/ea
C3126BS	C3126	MAGic Clamp magnetic clamp, microplate	1/ea
C3128BS	C3128	MAGic Clamp Tube Rack, 32 x 15 mL	1/ea
C3127BS	C3127	MAGic Clamp Rack, 30 x 15 mL /20 x 50 mL	1/ea
C3129BS	C3129	MAGic Clamp Tube Rack, 15 x 50 mL	1/ea
C3130BS	C3130	MAGic Clamp COMBO, 25, 250, 500 mL	1/ea
C3182BS	C3182	MAGic Clamp Tube Rack, 12 x 1.5/2 mL	1/ea
C3183BS	C3183	MAGic Clamp Tube Rack, 4 x 15 mL tubes	1/ea
C3185BS	C3185	MAGic Clamp tilted holder 15 mL and 50 mL	1/ea
C3184BS	C3184	MAGic Clamp Tube Rack, 2 x 50 mL tubes	1/ea
C3204BS	C3204	MAGic Clamp Tube Rack, 12 x 1.5/2 mL	1/ea
C3205BS	C3205	MAGic Clamp Tube Rack, 4 x 15 mL	1/ea
C3206BS	C3206	MAGic Clamp Tube Rack, 2 x 50 mL tubes	1/ea
C3181BS	C3181	MAGic Clamp Tube Rack, 4 x 500 mL or 600 mL	1/ea
C3190BS	C3190	MAGic Clamp platform flasks/tube 16 x 16.5	1/ea



Flask Dancer Orbital Shaker

BOEKEL -This microprocessor-controlled shaker uses a smooth horizontal orbital motion for mixing in bottles, flasks and beakers. It features a soft start and noise-free operation. Platform not included.

Specifications:

- Speed 50 to 300 rpm
Orbit 18 mm
Timer 1 minute to 99 hours
Time setting resolution 1 minute
Unit Dimensions (W x D x H) 10½ x 11 x 4 in.
Tray Dimensions (W x D) 10 x 8 in.
Power requirements 12 V, 0.5 A

Cat. No.	Mfr. No.	Description	Qty.
R3301-3A	270200	Orbital shaker	1/ea
R3301-2A	270292	Universal platform w/adjustable bars	1/ea

General Lab

Shakers



AS 260.1 Universal Attachment

IKA WORKS - For various types of vessels. Infinitely variable clamping rolls allow universal adaptation to the vessels

Specifications:

Dimensions (W x D x H) 425 x 335 x 135 mm
Set-up plate 320 x 320 mm

Cat. No.	Mfr. No.	Description	Qty.
S7389-128	8017400	AS 260.1 Universal Attachment	1/ea



KS 130 Basic Shaker

IKA WORKS - This small, quiet shaker helps ensure long service life with ideal swivel motion and can accommodate a maximum shaking weight of 2 kg. Features an electronic adjustment of speed and timer. Basic model has LED line display for speed and time adjustment.

Shaker can be used with a wide range of attachments to make it possible to use almost all shapes and sizes of vessels. Universal attachment S7389-127 includes one basic holder; three clamping rolls and six fastening screws.

Specifications:

Shaking movement Orbital
Shaker diameter 4 mm
Speed range 80 to 800 rpm
Dimensions (W x D x H) 270 x 316 x 98 mm

Cat. No.	Mfr. No.	Description	Qty.
S7389-160	2980001	Basic Shaker - 100–120 V, 50/60 Hz	1/ea
S7389-127	8017300	AS 130.1 Universal Attachment	1/ea



HS 260 Control Shaker

IKA WORKS - This compact, flat shaker features ideal swivel motion and can accommodate a maximum shaking weight of 7.5 kg. Digital display makes it possible to read the speed, timer function and operating modes. Electronic time switching clock: 0 to 9 hr., 59 min. or continuous operation (endless). Integrated endpoint positioning (for automated robot-controlled sampling). All functions can be controlled and documented with labworldsoft® software. Wide range of attachment combinations makes it possible to use almost all shapes and sizes of vessels. Attachments are not included, please order separately.

Specifications:

Shaking movement Reciprocating
Shaker diameter 20 mm
Speed range 10 to 300 rpm
Timer 0 to 9 hours 59 minutes or continuous operation
Dimensions (W x D x H) 360 x 420 x 100 mm

Cat. No.	Mfr. No.	Description	Qty.
S7389-158	3066701	Control shaker - 100–120 V, 50/60 Hz	1/ea



MS 3 Digital Shaker

IKA WORKS - This compact, universal shaker is suitable for shaking tasks with all small vessels and microtiter plates. Features attachment detection and offer continuous or touch operation. The shaker has two operating modes. Mode A (safe mode with attachment detection) the maximum speed of 3,000 rpm is only reached with the standard attachment in touch mode. When using other attachments, the speed is limited to 1,300 rpm. Mode B (without attachment detection) a speed of 3,000 rpm is possible with all attachments, depending on the application (see accessory list in the manual). Digital shaker has a timer with countdown function.

Specifications:

Shaking movement Orbital
Shaker diameter 4.5 mm
Speed range 0 to 3,000 rpm
Dimensions (W x D x H) 148 x 205 x 63 mm

Cat. No.	Mfr. No.	Description	Qty.
S7389-183	3319000	Digital Shaker - 100–240 V, 50/60 Hz	1/ea
S7389-130	3426600	MS 3.3 Universal Attachment	1/ea

VORTEX 3 Shaker

IKA WORKS - Vortex shaker suitable for short-time operation (touch function), activated by pressing shaker attachment or continuous operation. Features an infinitely adjustable wide-speed range. Unit has a silicon base with special feet to minimize vibration at high speeds. Attachments (available separately) make the shakers useful for many different applications.

**Specifications:**

Shaking movement Orbital
Shaker diameter 4 mm
Speed range 500 to 2,500 rpm
Dimensions (W x D x H) 127 x 149 x 136 mm

Cat. No.	Mfr. No.	Description	Qty.
S7389-168	3340001	Vortex 3 - 115 V, 50/60 Hz	1/ea
S7389-134	3342400	VG 3.3 universal attachment	1/ea

Pipette Shakers

LW SCIENTIFIC - The Pipette Shakers easily achieve consistent results in specimen separation and are especially effective for blood preparation. The 6-place shaker has the option of either continuous motion or timed motion using the 15 minute timer. Compact size and durability make the Pipette Shaker convenient for any laboratory.

**Specifications:**

Capacity 6 places, 5-7 mL pipettes
Fixed speed 2,500 rpm
Power requirements 110 V

Cat. No.	Mfr. No.	Description	Qty.
HLPPF706F1	SHL-PPF7-06F1	Pipette Shaker - 6 places	1/ea

VXR Basic VibraX®

IKA WORKS - Optoelectronically controlled small shaker with a very wide speed range (0 to 2200 rpm).



- Suitable for continuous operation
- New design and improved drive system
- Circular shaking motions
- Slow speeds are well maintained
- Attachments are interchangeable

Specifications:

Shaking movement Orbital
Shaker diameter 4 mm
Speed range 0 to 2,200 rpm
Dimensions (W x H x D) 157 x 130 x 247mm

Cat. No.	Mfr. No.	Description	Qty.
S7389-169	2819001	VXR Basic VibraX® - 100-120 V, 50/60 Hz	1/ea

Heavy Duty Orbital Shaker

OHAUS - Heavy Duty Shakers are designed to handle a wide range of applications no matter how difficult the task. Powerful, convenient shakers provide consistent orbital shaking action. Digital models offer accurate speed control for applications that demand repeatable results. Maximize throughput and efficiency in your laboratory.

- Independent LED displays for speed/time allow the operator to view both settings simultaneously
- RS232 interface provides two-way communication for data logging and unit control
- Built-in tray 11 x 13 in. with a non-slip rubber mat (included)
- Cold rolled steel (CRS) construction
- Detachable 3-wire cord and plug (included)

Specifications:

Speed range 15 to 500 rpm
Speed accuracy Above 100 rpm \pm 1% of set speed,
Below 100 rpm \pm 1 rpm
Orbit 0.75 in. (19 mm)
Timer range 1 second to 160 hours
Maximum capacity 35 lbs. (16 kg)
Dimensions (W x D x H) 14 x 16.3 x 5.9 in.
Power requirements 120 V, 50/60 Hz, 5 A

Cat. No.	Mfr. No.	Description	Qty.
TR-980023	30391807	Orbital shaker - 120 V	1/ea

General Lab

Shakers/Slide Warmer

Talboys Digital Mini Shaker

TROEMNER - This shaker features a variable-speed microprocessor control that provides consistent, uniform mixing action. The ramping feature slowly increases speed to set point for added safety. The independent LED display features speed and time. Timer displays elapsed time or, when programmed to user-defined limit, will count down to zero and shut off unit.

The audible alarm sounds when time reaches zero. Ideal for use in incubators, CO₂ incubators or cold rooms. Shakers accommodate a 14°F to 140°F (-10°C to +60°C), 80% relative humidity, noncondensing environment. Durable base is constructed of cast aluminum for extra stability. The triple eccentric drive features permanently lubricated ball bearings. The maintenance-free, brushless DC motor provides a long service life.

The tray included with the shaker can be used as a platform for mounting optional Erlenmeyer flask clamps, test tube racks or microplate holders. It features a nonskid rubber mat appropriate for holding petri dishes and cell culture flasks.

Specifications:

Orbit 3 mm
Timer 1 second to 160 hours
Capacity 25 lbs.

Speed

Range 100 to 1,200 rpm
Accuracy ±2% of set speed or 2 rpm for speeds below 100 rpm



Talboys Digital Rocking Platform Shaker

TROEMNER - This shaker is ideal for cell culture work, staining and destaining gels, hybridization procedures, hematology and blotting techniques. Designed for use in incubators, CO₂ incubators, cold rooms (-10°C to +60°C) and 80% relative humidity, noncondensing environments. The large platform tray is ideal for holding staining trays, culture flasks, petri dishes and microtiter and multiwell plates. Spill-resistant design channels fluids away from internal components. Base is constructed of durable cast aluminum for extra stability.

Microprocessor touchpad control provides electronic angle adjustment that allows user to easily adjust rocking angle from 0° to 15° while unit is operating. Precise speed control provides smooth, low-speed rocking motion down to 1 rpm. For improved repeatability, onboard memory recalls last settings even when unit is turned off.

Audible and visual signals will activate when system detects an overloaded, unbalanced condition or obstruction of the tray. LED display will show elapsed time or, when programmed to user-defined limit, will count down to zero and shut off unit. Audible alarm will sound when time reaches zero. Optional alarm mute can be set from the touchpad control. Powerful, maintenance-free stepper motor handles heavy loads up to 10 lbs. (4.5 kg) and provides a long service life.

Specifications:

Tilt angle 0° to 15°
Timer 1 second to 160 hours
Maximum capacity 10 lbs.

Speed

Range 1 to 50 rpm
Accuracy ±1 rpm



Cat. No.	Mfr. No.	Description	Qty.
TR980175	980175	Digital Mini Shaker - 120 V	1/ea

Cat. No.	Mfr. No.	Description	Qty.
TR980530	980530	Shaker 120 V - 12.75 x 10 in. platform	1/ea

Slide Warmer

LW SCIENTIFIC - The Slide Warmer is designed to be used for a broad range of applications. Our thick metal platform paired with our proprietary heating system ensures stable temperatures and even heating, eliminating the hot and cold spots common to other models. The 12 V electronics make it portable when the optional battery cords are purchased. Economical and dependable, the Slide Warmer is ideal for use in fertility, cytology, biology, tissue mounting, histology, as well as other applications.

- Digital temperature display programmable in F° or C°
- 14-slide capacity
- Suction-cupped feet
- Compact, space-saving design
- LED temperature display
- Portable – can be operated by 12 V battery power



Specifications:

Temperature range Ambient +2°F up to 150°F
Accuracy ±0.3°F
Preset at 98.6°F (37°C)
Dimensions (W x D x H) 7.5 x 7.7 x 4 in.
Power requirements 100–240 V, 50/60 Hz;
Output: 12 V, 8 A

Cat. No.	Mfr. No.	Description	Qty.
WL14PL77DP	SWL-14PL-77DP	Slide Warmer - 14 slide	1/ea



Large Capacity Reach-In CO₂ Incubator

CARDINAL HEALTH - Temperature uniformity is absolutely critical for optimal culturing. This large capacity reach-in CO₂ incubator delivers optimum temperature uniformity and recovery even with large product loads and low output, heat-generating equipment in the chamber.

The unique directed horizontal laminar airflow system uses positive and negative pressures to direct air across the entire shelf surfaces, assuring a consistent flow of conditioned air for maximum temperature uniformity. The air feed plenum cannot be accidentally blocked by the chamber contents, leading to temperature variations that can damage the chamber's contents.

This large capacity reach-in CO₂ incubator is exceptionally simple to operate and loaded with valuable features that will serve you from day one. You don't need to purchase a range of expensive options to have a chamber that truly meets your needs. It's been designed with the primary features built-in.

Two-year parts and labor warranty. Limitations apply. See your instruction manual for full warranty terms and conditions.

Features:

- 29 cu. ft. of capacity—easy access to large-volume samples
- Standard remote alarm contacts—facilitates monitoring/alarm system to track chamber conditions
- Temperature uniformity for optimal culturing
- Enviro-Scan™ microprocessor message center—offers the freedom to control all critical parameters
- Stainless steel interior
- Heated solid door—minimizes condensation and protects light sensitive samples
- Three adjustable stainless steel shelves—easy-to-clean, corrosion resistant
- Swivel, locking casters—for easy unit installation and cleaning
- Adjustable RH system—three settings: low, medium and high
- Thermal conductivity (TC) sensors for accurate CO₂ monitoring

Specifications:

Temperature

Control	±0.1°C
Range	5°C above ambient to 60°C (140°F)
Uniformity.....	±0.3°C @ 37°C (98.6°F)

CO₂

Control	Better than ±0.1%
Range	0 to 20%
Readability and setability.....	0.1%

Humidity

Selectable ranges	Off, medium >80%, high >90%
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Stainless Steel Shelves

Dimensions.....	30.6 x 25.8 in.
Surface area	5.4 sq. ft.
Max. per chamber.....	145.8 sq. ft.
Standard, maximum	3, 27

Electrical Requirements

Electrical.....	115 V, 50/60 Hz, 10.0 FLA (operating range 90–125 V includes voltage fluctuations)
Plug	115 V: NEMA 5-15P plug

Dimensions (W x H x D)

Exterior.....	38 x 80 x 33 in. F-B
Interior	31 x 60 x 27 in. F-B

Cat. No.	Description	Qty.
CH3850	Large capacity reach-in CO ₂ incubator	1/ea

Specifications are based on nominal voltages of 115 V in ambient of 22°C to 25°C (71.6°F to 77°F). UL Listed to United States requirements.

Enviro-Scan™ is a trademark of Thermo Fisher Scientific Inc.

Incubators

Digital Incubators

CARDINAL HEALTH - With digital temperature control, Cardinal Health™ mini incubators provide convenient "set and walk away" operation, eliminating the need for external thermometers. Simply choose the desired temperature and the incubator immediately begins to heat up (or cool down-HC model only) while accurately monitoring the chamber temperature and conveniently displaying the temperature in real time on the large LED control panel. Despite a modest footprint of 13.2 x 14.5 in., our incubators feature large internal chambers capable of accommodating flasks and bottles up to 2 liters and two adjustable/removable shelves for increased capacity.

Specifications:

Temperature

Range (H)..... Ambient +5°C to 60°C

Range (HC) Ambient –15°C to 60°C*

Accuracy..... ± 0.5°C (at 37°C)

Uniformity.... ± 1.5°C (at 37°C)

Increments 1°C

Capacity 0.8 cu. ft. (22.65 L)

Electrical..... 100–240 V, 50/60 Hz

Dimensions (W x D x H) Exterior 13.2 x 14.5 x 18.7 in. (33.5 x 37 x 48 cm)

Interior 10.3 x 9.3 x 12.9 in. (26 x 23.5 x 33 cm)

Weight 15 lbs. (6.8 kg)

Warranty Two-year



Cat. No.

Description

Qty.

CH2200-H

Digital Incubator - heat only

1/ea

CH2200-HC

Digital Incubator - heat and cool

1/ea

*For example: minimum temperature in a 22°C environment is approximately 7°C



High Performance Digital Incubators

AZER SCIENTIFIC - These high-performance incubators are ideal for applications that require strict temperature control. They feature a SmartChek™ system that helps to ensure precise regulation of temperature. In the event of a primary controller failure, an independent safety thermostat protects your samples. Warm air surrounds all interior sides, including the door, to provide a stable, uniform environment. The interior light turns on as you open the solid outer door. View contents through a full-size glass inner door. You can turn on a turbo fan for a quick recovery after the door is opened or for added uniformity. Choose from 120 V or 230 V models. Each incubator includes an interior outlet for small equipment and two shelves. Additional shelves are available separately.

Specifications (apply to both sizes):

Operating conditions Ambient +5°C to 95°C

Temperature Accuracy ±0.2°C

Temperature display to 0.1°C



Mini Incubator

AZER SCIENTIFIC - Space saving, compact analog incubator is ideal for incubating culture flasks, dishes, test tubes, and plates. Plexiglas viewing area in the door gives clear view of contents. Incubator has easy-to-clean shelves that can be placed at three levels within chamber. Corrosion-resistant interior and dependable construction.

Specifications:

Operating conditions Ambient +5°C to 60°C

Capacity 9.2 L / 0.375 cu. ft.

Interior Dimensions (W x D x H) 9 x 7.9 x 7.9 in.

Exterior Dimensions (W x D x H) 11.2 x 11 x 13.2 in.

Power requirements 120 V, 50/60 Hz

Cat. No.	Mfr. No.	Description	Qty.
ESI110120V	ESI110120V	120 V mini incubator	1/ea

Cat. No.	Mfr. No.	Description	Qty.
ESI311D	ESI311D	2.75 cu. ft. incubator	1/ea
ESI611D	ESI611D	6 cu. ft. incubator	1/ea



Incu-Shaker™ Mini Shaking Incubator

BENCHMARK - The Incu-Shaker™ Mini has a remarkably small footprint, the interior is spacious enough to accept a 9.5 x 11 in. platform as well as clamps for a variety of flasks, tube and other common vessels. The standard platform (included) features a non-slip, rubber coated surface, ideal for tissue culture flasks, petri dishes and staining trays. The convenient MAGic Clamp™ platform is also available for use with Erlenmeyer flasks and test tube racks. This unique, magnetic attachment method is the easiest way to instantly change between flask clamps of different sizes.

Specifications:

Temperature range Ambient +5°C to 70°C
 Temperature accuracy ±0.1°C
 Temperature uniformity ± 0.25°C
 Shaking speed range 30 to 300 rpm
 Platform dimensions 9.5 x 11.5 in.
 Dimensions: (W x D x H) 11 x 16.2 x 13 in.
 Power requirement 115 V or 230 V, 50/60 Hz, 300 W



Incu-Shaker™ 10 L Shaking Incubators

BENCHMARK - The Incu-Shaker 10 L model are equipped with a large 18 x 18 in. platform for high capacity applications as well as clamps for a variety of flasks, tube and other common vessels. The standard platform (included) features a non-slip, rubber coated surface, ideal for tissue culture flasks, petri dishes and staining trays. The convenient MAGic Clamp™ platform is also available for use with Erlenmeyer flasks and test tube racks. This unique, magnetic attachment method is the easiest way to instantly change between flask clamps of different sizes.

Specifications:

Temperature range Ambient +5°C to 60°C
 Temperature accuracy ±0.1°C
 Temperature uniformity ± 0.25°C
 Shaking speed range 30 to 300 rpm
 Platform dimensions 17.8 x 17.8 in.
 Dimensions: (W x D x H) 20 x 26 x 19 in.
 Power requirement 115 V or 230 V, 50/60 Hz, 450 W

Cat. No.	Mfr. No.	Description	Qty.
C3168BS	C3168	Incu-Shaker Mini, 115 V	1/ea
C3169BS	C3169	Incu-Shaker Mini, 230 V	1/ea
C3170BS	C3170	MAGic Clamp universal platform	1/ea
C3186BS	C3186	MAGic Clamp COMBO 125, 250 and 500 mL	1/ea
C3175BS	C3175	MAGic Clamp magnetic clamp, 50 mL	1/ea
C3174BS	C3174	MAGic Clamp magnetic clamp, 125 mL	1/ea
C3173BS	C3173	MAGic Clamp magnetic clamp, 250 mL	1/ea
C3172BS	C3172	MAGic Clamp magnetic clamp, 500 mL	1/ea
C3171BS	C3171	MAGic Clamp magnetic clamp, 1,000 mL	1/ea
C3176BS	C3176	MAGic clamp for 1 x microplate (max. 4)	1/ea
C3177BS	C3177	MAGic Clamp tube rack, 30 x 15 mL and 20 x 50 mL	1/ea
C3178BS	C3178	MAGic Clamp tube rack, 72 x 14 mm culture	1/ea
C3179BS	C3179	MAGic Clamp tube rack, 32 x 15 mL	1/ea
C3180BS	C3180	MAGic Clamp tube rack, 15 x 50 mL	1/ea
C3207BS	C3207	MAGic Clamp holder for 15 mL/50 mL racks	1/ea

Cat. No.	Mfr. No.	Description	Qty.
C3187BS	C3187	Incu-Shaker 10 L with non-slip mat, 115 V	1/ea
C3188BS	C3188	Incu-Shaker 10 L with non-slip mat, 230 V	1/ea
C3189BS	C3189	MAGic Clamp™ universal platform for flasks and tube racks (18 x 18 in.)	1/ea
C3208BS	C3208	MAGic Clamp™ COMBO, for 125 mL, 250 mL, 500 mL flasks	1/ea
C3197BS	C3125	MAGic Clamp magnetic clamp, 50 mL	1/ea
C3196BS	C3124	MAGic Clamp magnetic clamp, 125 mL	1/ea
C3195BS	C3123	MAGic Clamp magnetic clamp, 250 mL	1/ea
C3194BS	C3122	MAGic Clamp magnetic clamp, 500 mL	1/ea
C3193BS	C3121	MAGic Clamp magnetic clamp, 1,000 mL	1/ea
C3192BS	C3192	MAGic Clamp magnetic clamp, 2,000 mL	1/ea
C3191BS	C3191	MAGic Clamp magnetic clamp, 3,000 mL	1/ea
C3198BS	C3198	MAGic Clamp magnetic clamp 1 microplate	1/ea
C3199BS	C3199	MAGic Clamp tube rack, 30 x 15 mL and 20 x 50 mL	1/ea
C3200BS	C3200	MAGic Clamp tube rack, culture tubes	1/ea
C3201BS	C3201	MAGic Clamp tube rack, 32 x 15 mL	1/ea
C3202BS	C3202	MAGic Clamp tube rack, 15 x 50 mL	1/ea
C3203BS	C3203	MAGic Clamp tube rack, 4 x 500 mL or 600 mL	1/ea
C3131BS	C3131	MAGic Clamp tilted holder	1/ea

Incubators

myTemp 65HC™ Heating and Cooling Incubator

BENCHMARK - The myTemp 65HC™ Incubator is designed to provide accurate and uniform temperature control from 0°C to 60°C. The broad temperature range of the instrument expands the use of this incubator to both heating and cooling applications. A large, digital display allows for visualization of the chamber temperature and the remaining incubation time, while an internal light is included for improved visualization of the chamber. In addition, a built in, internal outlet can be used to provide power to small instruments, such as shakers, rockers, etc. With forced air technology and stainless steel inner construction, uniform heat transfer is ensured throughout the chamber. When set for sub-ambient temperatures, the powerful compressor is activated, quickly cooling the chamber to the desired temperature. With an exterior height of 39 in. (100cm), the incubator is designed to be floor-standing, yet is also compact enough for bench-use. (Not recommended for use on benchtops higher than 32 in., 81 cm). The instrument is supplied with two, adjustable height shelves, while additional shelves can also be purchased separately (item: H2265-SH).

Specifications:

Temperature range	0°C to 60°C (ambient –25°C to 60°C)
Temperature accuracy	0.5°C (at 37°C)
Temperature uniformity	±1°C (at 37°C)
Capacity	2.3 cu. ft. or 65 L
Timer	1 min. to 99 hr. 59 min.
Power requirement	115 V, 60 Hz or 230 V, 50 Hz, 385 W
Dimensions (W x D x H)	Exterior 21.25 x 21 x 39.35 in., interior 15.75 x 12.75 x 19.75 in.



Cat. No.	Mfr. No.	Description	Qty.
C3165BS	C3165	myTemp 65HC™ digital Incubator, 115 V	1/ea
C3166BS	C3166	myTemp 65HC™ digital Incubator, 230 V	1/ea
C3167BS	C3167	Extra shelf, 12 x 15 in.	1/ea

Analog Incubators

BOEKEL - These incubators are ideal for a wide range of applications, including culturing, bacteriology, warming of samples, *E. coli* tests and diagnostic protocol for water, wastewater, pharmaceutical and biotech testing. They are manufactured from 22G steel. The exterior is powder-coated for scratch- and stain-resistance and the interior is easy-to-clean aluminum. Incubators come with a thermometer as a standard accessory and have two adjustable shelves. They also have a blower fan to improve heating and stability of the desired temperature. The 115 V analog incubators meet UL and CSA requirements.

Specifications:

Shelves supplied	2
Power requirements	115 V, 60 Hz

Temperature

Range

Uniformity @ 37°C

Chamber dimensions (W x D x H)

CCC 1.4a

CCC 2.5a



Cat. No.	Mfr. No.	Description	Qty.
BO139200	139200	CCC 1.4a Analog Incubator - 1.4 cu. ft., solid door, 2 shelves	1/cs
BO139300	139300	CCC 2.5a Analog Incubator - 2.5 cu. ft., solid door, 2 shelves	1/cs



Benchtop Incubator

BOEKEL - This convenient benchtop analog incubator provides you with a reliable, inexpensive method of incubating cultures, test kits, eggs and other biological materials. It is ideal for use in clinical, industrial and school laboratories and in physicians' offices. The unit includes a see-through smoked acrylic door. It includes a nickel-plated steel bottom shelf plus one adjustable shelf.

Specifications:

Shelves supplied 2
Power requirements 120 V, 90 W

Temperature

Range Ambient +5°C to 60°C
Uniformity @ 37°C ±1°C

Dimensions (W x D x H)

Chamber 11½ x 12 x 10½ in.
Exterior 13 x 14 x 16¼ in.

Cat. No.	Mfr. No.	Description	Qty.
J1670-10	132000	0.8 cu. ft. benchtop incubator	1/ea



Incubator with Digital LCD

BOEKEL - Incubate cultures, test kits, eggs and other biologicals with this general-purpose analog incubator. Designed for storage under low-hanging cabinetry, it features a digital temperature LCD that can be viewed throughout the laboratory. The unit is supplied with 2 adjustable shelves and a rugged metal door with a magnetic latch.

Specifications:

Capacity 0.8 cu. ft.
Shelves supplied 2
Power requirements 115 V, 90 W

Temperature

Range Ambient +5°C to 60°C
Uniformity @ 37°C ±1°C

Dimensions (W x D x H)

Chamber 11½ x 12 x 10½ in.
Exterior 13 x 14 x 16¼ in.

Cat. No.	Mfr. No.	Description	Qty.
J1672-1	133000	0.8 cu. ft. incubator with digital LCD	1/ea

Digital Incubators

BOEKEL - These incubators are ideal for incubating and culturing reagents, media and samples in just about every laboratory where samples need warming and a steady temperature. They allow for digital input and readout of incubation temperature. Temperature range is from ambient +10°C to 90°C. The incubators contain a blower fan for rapid heat-up and better uniformity of temperature. An over-range safety thermostat with a red warning indicator light and 5-hour timer are also provided. Incubators utilize a PID controller and a separate power switch. Made from 22G steel and the exterior is powder-coated for both scratch- and stain-resistance. The interior is easy-to-clean aluminum.

Specifications:

Power requirements 115 V, 60 Hz

Temperature

Range Ambient +10°C to 90°C
Uniformity @ 37°C ±0.7°C

Chamber dimensions (W x D x H)

CCC 0.5d 9½ x 9½ x 9½ in.
CCC 1.4d 13½ x 13½ x 13½ in.
CCC 2.5d 17 x 17 x 15 in.



Cat. No.	Mfr. No.	Description	Qty.
CCC 0.5d digital incubator - 0.5 cu. ft.			
BO138000	138000	Solid door, 1 shelf	1/cs
BO138025	138025	See-through door, 1 shelf	1/cs
CCC 1.4d digital incubator - 1.4 cu. ft.			
BO138200	138200	Solid door, 2 shelves	1/cs
BO138225	138225	See-through door, 2 shelves	1/cs
CCC 2.5d digital incubator - 2.5 cu. ft.			
BO138325	138325	See-through door, 2 shelves	1/cs

Incubators

Microplate Incubator

BOEKEL - The heating element in this microplate incubator is located behind a back panel to provide uniform heat and to help eliminate the risk of scorching. The incubator can be used for a wide range of applications, including RIA, EIA, FIA, ELISA, culturing, kinetics, enzymatic incubation, temperature equilibration, hybridoma screening or any other technique that requires incubation at or near 37°C. A Plexiglas® door allows viewing of contents. The ivory Kydex® outer cover and sturdy aluminum interior make cleanup easy. The incubator comes complete with a flat plastic Digitemp® thermometer which is attached to the interior floor.



Specifications:

Temperature

Range Ambient +5°C to 42°C
Uniformity @37°C ±2°C chamber

Capacity 0.1 cu. ft.

Power requirements 120 V, 24 W
Dimensions (W x D x H) 7½ x 5¼ x 6¾ in.

Cat. No.	Mfr. No.	Description	Qty.
J1668-1	260700	0.1 cu. ft. Microplate Incubator	1/ea

Small Platelet Incubator and Agitator

BOEKEL - Introducing the new Small Platelet Incubator and Agitator. The agitation system has been designed for continuous quiet operation and to meet AABB Guidelines.



Features:

- Patent pending inventory management system to decrease wastage
- Gas-less/compressor-less heating and cooling design
- Onboard thermal printer for keeping records of temperature data
- Downloadable event log
- Massive 7 in. industrial touch screen with intuitive icons
- Battery backup in the event of a power failure
- Two-year warranty
- Removable shelves with smooth platform designed to reduce label sticking

Applications:

For short term storage of blood platelets for human treatment

Specifications:

Power requirements 115 V, 60 Hz, 50 W

Incubator temperature

Range 16°C to 28°C ambient
Accuracy ±0.5°C between 20°C and 24°C
Setting 20°C to 24°C (22°C default temperature)

Dimensions (W x D x H) 21.25 x 19.75 x 26 in.

Agitator

Speed 60 rpm
Capacity 6 shelves/6-12 apheresis bags or
18 random bags
Dimensions (W x D x H) 15.75 x 11.25 x 13.625 in.

Cat. No.	Mfr. No.	Description	Qty.
BI301550	301550	Platelet Incubator	1/ea
BI301200	301200	Platelet Agitator	1/ea

Large Platelet Incubator and Agitator

BOEKEL - Introducing the new Large Platelet Incubator and Agitator. The agitation system has been designed for continuous quiet operation and to meet AABB Guidelines.



Features:

- Patent pending inventory management system to decrease wastage
- Gas-less/compressor-less heating and cooling design
- Onboard thermal printer for keeping records of temperature data
- Downloadable event log
- Massive 7 in. industrial touch screen with intuitive icons
- Battery backup in the event of a power failure
- Two-year warranty
- Removable shelves with smooth platform designed to reduce label sticking

Applications:

For short term storage of blood platelets for human treatment

Specifications:

Power requirements 115 V, 1 Phase, 50/60 Hz

Incubator temperature

Range 16°C to 28°C ambient
Accuracy ±0.5°C between 20°C and 24°C
Setting 20°C to 24°C (22°C default temperature)
Dimensions (W x D x H) 25.3 x 26.5 x 30 in.

Agitator

Speed 60 rpm
Capacity 8 shelves/8 - 16 apheresis bags
Dimensions (W x D x H) 18.5 x 16.5 x 17.5 in.

Cat. No.	Mfr. No.	Description	Qty.
301650B	301650	Platelet Incubator	1/ea
301300B	301300	Platelet Agitator	1/ea

Hettich HettCube Incubators

HETTICH - HettCube eco-friendly incubators combine the advantages of natural and forced convection to provide a stable and uniform environment for cultures. The fan is housed outside of usable space, providing higher throughputs and limiting airflow inside the incubator. Temperature is maintained by radiated heat to ensure even temperature distribution and to prevent hotspots. Cultures conditions are homogeneous at all points of the chamber for reproducible results.

Hettich HettCube incubators come in 3 convenient sizes 5.29 cu. ft., 10.95 cu. ft. and 18.36 cu. ft. heated or cooled and are available with a glass door option. Multiple accessories are available, please inquire.

Specifications:

Power requirements 120 V, 50/60 Hz

Warranty 2 years

Capacity

200/200 R 5.2 cu. ft.

400/400 R 10.9 cu. ft.

600/600 R 18.3 cu. ft.

Temperature

Range ... 1 K above ambient temp. 0°C to +65°C

Fluctuation 37°C ± 0.1 K

Uniformity 25°C ± 0.1 K

Uniformity 37°C ± 0.2 K

Recovery time

200/200 R ≤ 3 min.

400/400 R ≤ 4.5 min.

600/600 R ≤ 5.5 min.

Exterior dimensions (H x W x D)

200/200 R 28 x 32.5 x 38.25 in.

400/400 R 28 x 32.5 x 56 in.

600/600 R 28 x 32.5 x 78.25 in.



Glass door available

USA Incubators

LW SCIENTIFIC - The digitally controlled USA Incubators are perfect for various applications such as cultures, egg incubation, test kits, and other microbiological uses in pediatric, physician, and hospital labs. This new line of incubators is designed, engineered, and assembled in the USA by LW Scientific Atlanta. They provide better temperature stability and accuracy with the digital PID microprocessor controls, and the convection heat provides excellent heat distribution and uniformity. The LED temperature display shows constant temperature in Celsius or Fahrenheit, and the aluminum and stainless steel components are corrosion resistant and easy to clean. The LW Scientific incubator is perfect for labs requiring better temperature accuracy and a small footprint.



Features:

- Acrylic see-through door
- Adjustable stainless steel shelves
- Suction-cupped rubber feet
- Programmable temperature correction
- PID controller
- Simple keypad input
- Digital LED display
- Visual alarm alerts when actual internal temperature exceeds programmed temperature

Specifications:

Temperature range Ambient +2°C to 65°C

Temperature accuracy ± 0.5°C

Power Requirements 115 V AC, 300 W

Cat. No.	Mfr. No.	Description	Qty.
CL010LD031	ICL-010L-D031	10-liter (0.35 cu. ft.) - 2 shelves, 1 adjustable	1/ea
CL020LD071	ICL-020L-D071	20-liter (0.7 cu. ft.) - 3 shelves, 2 adjustable	1/ea
CL030LD101	ICL-030L-D101	30-liter (1.1 cu. ft.) - 3 shelves, 2 adjustable	1/ea

Incubators

Cell IQ™ CO₂ Incubator for Cell Culture

PHC CORPORATION OF NORTH AMERICA* - Enhance the production yield of your cell culture experiments with the large capacity CO₂ incubator. The ideal high throughput cell culture incubator for culturing or protocols that may require the use of an experimental apparatus.

The patented direct heat and air jacket system works with the IR2 sensor to provide precise temperature and CO₂ levels, respectively. InCu-saFe® and SafeCell™ UV function together to prevent contamination. The isolated UV lamp decontaminates circulated air and the humidity water reservoir without harming the cultured cells. The control panel interface allows for easy programming of temperature, CO₂ and other internal conditions of your incubator.

Specifications:

CO ₂ range and fluctuation	0% to 20%, ±0.15%
Temperature range	5°C above ambient to 50°C, ± 0.1°C
Temperature uniformity	±0.25°C
Shelves	4 stainless steel copper enriched alloy

Dimensions

Interior (W x D x H)	25.3 x 20.6 x 27.6 in.
Exterior (W x D x H)	30.3 x 28.7 x 35.6 in.

*Formerly known as Panasonic Healthcare Corporation of North America



Cat. No.

Mfr. No.

Description

Qty.

230AICUVL	MCO-230AICUVL-PA	CO ₂ incubator with a UV lamp 8.1 cu. ft. - 4 wire shelves	1/ea
MCO230RBPW	MCO-230RB-PW	Roller base	1/ea
MCO230SBPW	MCO-230-SB-PW	Stacking spacer	1/ea
MCO230STPW	MCO-230ST-PW	Shelf	1/ea

CytoGrow CO₂ Incubator

PHC CORPORATION OF NORTH AMERICA* - The ideal CO₂ incubator for research and clinical microbiology, the CytoGrow GLP CO₂ incubator offers a high performance solution for mainstream cell culture applications in the research and clinical environment where precise control and contamination resistance is critical.

The patented direct heat and air jacket conditioning system provides for stable chamber temperature. High density insulation surrounds the incubator chamber to maintain precise temperature and protect against ambient temperature fluctuations. Incubator interior, shelves and shelf rack system incorporate inCu-saFe® copper enriched, stainless steel alloy which offers germicidal properties of elemental copper. This passive contamination control method prevents corrosion and discoloration. The CytoGrow incubator utilizes a microprocessor controller and provides accurate digital display of chamber conditions along with an easy to operate control panel with independent LED displays for temperature and CO₂. The incubator offers a removable shelf channel system, no tools required, for easy cleaning.



Specifications:

CO ₂ range and fluctuation	0% to 20%, ±0.1 5%
Temperature range	5°C above ambient to 50°C, ±0.1°C
Temperature uniformity	±0.25°C
Shelves	3 stainless steel copper enriched alloy

Dimensions

Interior (W x D x H)	19.3 x 20.6 x 26.2 in.
Exterior (W x D x H)	24.4 x 28.0 x 35.4 in.

*Formerly known as Panasonic Healthcare Corporation of North America



Cat. No.

Mfr. No.

Description

Qty.

MCO18ACLPA	MCO-18ACL-PA	6 cu. ft. - 3 wire shelves	1/ea
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CytoGrow Stackable CO₂ Incubator

PHC CORPORATION OF NORTH AMERICA* - CytoGrow CO₂ stackable incubator offers precise CO₂ control in a compact, space saving design that allows up to three models to be stacked. The unit is ideal for individual cell culture studies and laboratories with limited space.

The patented direct heat and air jacket conditioning system provides for stable chamber temperature. High density insulation surrounds the incubator chamber to maintain precise temperature and protect against ambient temperature fluctuations. Incubator interior, shelves and shelf rack system incorporate inCu-saFe® copper enriched, stainless steel alloy which offers germicidal properties of elemental copper. InCu-saFe prevents corrosion and discoloration of the incubator interior. The CytoGrow incubator utilizes a microprocessor controller and provides accurate digital display of chamber conditions along with an easy to operate control panel with independent LED displays for temperature and CO₂.



Specifications:

CO₂ range and fluctuation 0% to 20%, ±0.15%
 Temperature range 5°C above ambient to 50°C, ±0.1°C
 Temperature uniformity ±0.25°C
 Shelves 3 stainless steel copper enriched alloy

Dimensions

Interior (W x D x H) 13.8 x 14.9 x 14.8 in.
 Exterior (W x D x H) 18.9 x 21.6 x 22.4 in.

*Formerly known as Panasonic Healthcare Corporation of North America

Cat. No.	Mfr. No.	Description	Qty.
MCO5ACLPA	MCO-5ACL-PA	1.7 cu. ft. stackable incubator	1/ea

Multigas CO₂/O₂ Incubator

PHC CORPORATION OF NORTH AMERICA* - The air jacketed stackable multigas incubator provides precise CO₂ and O₂ level control for an optimal cell culture environment. Ergonomically designed it allows two additional units to be stacked on top. As a research-grade cell culture incubator with integrated inCu-saFe and SafeCell UV contamination control technology, the compact multigas incubator saves valuable space and is ideally suited for a variety of applications, including *in vitro* fertilization.



The patented direct heat and air jacket conditioning system provides for stable chamber temperature. High density insulation surrounds the incubator chamber to maintain precise temperature and protect against ambient temperature fluctuations. Incubator interior, shelves and shelf rack system incorporate inCu-saFe® copper enriched, stainless steel alloy which offers germicidal properties of elemental copper. InCu-saFe prevents corrosion and discoloration of the incubator interior. Microprocessor controller and provides accurate digital display of chamber conditions along with an easy to operate control panel with independent LED displays for temperature and CO₂.



Specifications:

CO₂ range and fluctuation 0% to 20%, ±0.15%
 O₂ range 1% to 18% and 22% to 80%
 Temperature range 5°C to 50°C
 Temperature uniformity ±0.25°C
 Shelves 3 stainless steel copper enriched alloy

Dimensions

Interior (W x D x H) 13.8 x 14.9 x 14.8 in.
 Exterior (W x D x H) 18.9 x 21.6 x 22.6 in.

*Formerly known as Panasonic Healthcare Corporation of North America

Cat. No.	Mfr. No.	Description	Qty.
MCO-5M	MCO-5M-PA	1.7 cu. ft. stackable incubator	1/ea

Incubators

MIR Series Heated Incubators

PHC CORPORATION OF NORTH AMERICA* - The MIR series offers accurate temperature control and consistent uniformity suitable for laboratory culturing, industrial incubation and various testing applications. Multiple programming capability through wide temperature range (+5°C up to +80°C) with excellent chamber uniformity. Improved usability with modern design, reversible door, adjustable low vibration and gentle air circulation that reduces media drying. The microprocessor allows for precision temperature control combined with a heater PID and compressor ON-OFF system. Completely programmable, allowing for direct numeric input of operational functions.

Specifications:

Temperature range Ambient +5°C to 80°C

Temperature uniformity ±1°C

Power requirements 115 V, 60 Hz, 1 phase

Dimensions (H x W x D)

MIR-H163

Interior 17.7 x 18.1 x 17.7 in.

Exterior 22.8 x 23.4 x 32.3 in.

MIR-H263

Interior 23.6 x 20.1 x 19.7 in.

Exterior 28.7 x 25.4 x 34.3 in.



MIRH163PA

*Formerly known as Panasonic Healthcare Corporation of North America

Cat. No.	Mfr. No.	Description	Qty.
MIRH163PA	MIR-H163-PA	3.3 cu. ft. - 2 wire shelves	1/ea
MIR-262	MIR-H263-PA	5.4 cu. ft. - 3 wire shelves	1/ea

MIR Series Refrigerated Incubators

PHC CORPORATION OF NORTH AMERICA* - The MIR Series Refrigerated Incubators offer accurate temperature control and consistent uniformity making them suitable for laboratory culturing, industrial incubation and various testing applications. Multiple programming capability through wide temperature range (-10°C up to +60°C) with excellent chamber uniformity. Improved usability with modern design, reversible door, adjustable low vibration and gentle air circulation that reduces media drying. The microprocessor allows for precision temperature control combined with a heater PID and compressor ON-OFF system. Programmable operational functions are simple and accommodates a range of diversified experimentation requirements.

Specifications:

Temperature range -10°C to 60°C (ambient temperature: 5°C to 35°C, no load)

Temperature uniformity ±0.5°C at 37°C

Shelves PE coated steel wire, adjustable

Power requirements 115 V, 60 Hz, 1 phase

Dimensions (H x W x D)

MIR-154

Interior 24.4 x 14.5 x 21.9 in.

Exterior 27.6 x 22.8 x 40.1 in.

MIR-254

Interior 24.4 x 14.5 x 42.8 in.

Exterior 27.6 x 22.8 x 63.7 in.

MIR-554

Interior 25.2 x 21.7 x 45.7 in.

Exterior 31.5 x 32.8 x 71.3 in.



MIR-254



MIR-554

*Formerly known as Panasonic Healthcare Corporation of North America

Cat. No.	Mfr. No.	Description	Qty.
MIR-154	MIR-154-PA	4.3 cu. ft. - 3 wire shelves	1/ea
MIR-254	MIR-254-PA	8.4 cu. ft. - 5 wire shelves	1/ea
MIR-554	MIR-554-PA	14.3 cu. ft. - 5 wire shelves	1/ea

Thermo Scientific™ Forma® 3960 Series Environmental Chamber

THERMO FISHER SCIENTIFIC - Ideal for many clinical applications, including elevated temperature stability and shelf-life testing. The 3960 series features the horizontal laminar airflow system, stainless steel interior, microprocessor controls for a high-performance, high-capacity unit that is ideal for a wide range of constant temperature applications. Optimum uniformity and an elevated temperature range helps ensure easy compliance with regulatory requirements.

Laminar airflow through side plenums for extremely tight temperature uniformity. Microprocessor controls offer constant display of temperature, as well as an alphanumeric message center for ease of setup and programming. Access ports, locking casters and alarm contacts are standard.

Directed airflow system promotes an ideal growth environment. Positive pressure feed plenum and negative pressure return plenum direct air across shelf surface. Feed plenum cannot be blocked by chamber contents. Precise temperature control without complicated programming. Operating modes include run, setpoint, calibration and system configuration.

Easy-to-read display for continuous monitoring. Audible/visual under- and overtemperature alarms. Programmable and indicator low alarm and remote alarm contacts. Data outputs allow connection to inhouse monitor/alarm system to track chamber conditions.

Exterior cabinet is 18 gauge cold-rolled steel, powder coated for durability; resists scratches and chipping. Heated glass door for minimal condensation and a clear view. 2 in. (5.1 cm) thick fiberglass cabinet insulation for maximum product thermal protection. Solid, stainless-steel interior and five heavy-duty solid stainless steel shelves ensures long life and minimized equipment costs. Thru-wall access ports on both chamber sides for probes, sensors, etc.

Interior GFCI duplex receptacle on 115 V model (single European 230 V CEE 7 on 230 V model) for shakers, cell rollers and other equipment. Exterior receptacle on upper-right side of control panel for connecting optional recorder or other equipment.

Specifications:

Temperature range 5°C above ambient to 60°C (140°F)

Temperature uniformity ±0.4°C at 30°C (86°F); ±0.3°C at 37°C (98.6°F); ±0.5°C at 45°C (113°F)

Temperature sensitivity ±0.1°C



Cat. No.	Mfr. No.	Description	Qty.
J8105-48	3960	Environmental Chamber - 29 cu. ft.	1/ea
J1805-45	224139	Stainless steel shelf kit for models 3950/3960	1/ea

Thermo Scientific™ Midi CO₂ Incubator

THERMO FISHER SCIENTIFIC - With a chamber capacity of 1.4 cu. ft., this incubator is designed for personal, single-user or small sample applications and is ideal for benchtop use. It features an Intralogic™ II control system with alphanumeric set-point display of temperature, CO₂, alarm, calibration and diagnostic functions. The incubator has a seamless interior chamber with radiant wall heating for accurate, uniform temperatures in a low-maintenance, easy-to-clean configuration. It also has auto-zero calibration, which maintains accurate thermal gas performance. A touchpad allows for the control of temperature and CO₂ and a high-visibility vacuum fluorescent display allows for at-a-glance monitoring from across the room.



The incubator's solid outer door closes gently against the cabinet with a magnetic gasket and the tempered glass inner door is heated by the outer door to prevent condensation. The reinforced cabinet permits stacking and four stainless-steel shelves are supplied. Incubator has a thermal conductivity sensor, which provides accurate CO₂ control for applications with more consistent temperature and humidity levels. Unit is built to meet UL, CUL and CE standards for safety and performance. Power requirements: 120 V, 60 Hz, 1.5 A.

Specifications:

Temperature range 5°C above ambient to 60°C

Temperature control ±0.1°C

Interior dimensions 14 x 12 x 14 in. (H x D x W)

Exterior dimensions 18.3 x 18.5 x 23.5 in. (H x D x W)

Cat. No.	Mfr. No.	Description	Qty.
J1756-78	3403	1.4 cu. ft. (40 L) incubator	1/ea

Incubators

Thermo Scientific™ Direct Heat CO₂ Incubator - Heracell™ 150i and 240i

THERMO FISHER SCIENTIFIC - Renowned for accuracy, uniformity and quick recovery rates, Thermo Scientific™ Heracell™ 150i and 240i direct heat incubators combine optimal culturing conditions with simplicity and ease-of-use.

- Two convenient stackable sizes 150 L, 240 L (5.3 cu. ft., 8.4 cu. ft.) with electropolished stainless steel or 100% pure copper interior
- Intuitive iCAN touchscreen interface
- Optional O₂ control with choice of 1 to 21% or 5 to 90% ranges
- Choose reliable long-life TC or dual-beam IR CO₂ sensors
- Convenient, 90°C high temperature decontamination routine



Specifications:

Temperature range +3°C to +55°C

Temperature deviation ±0.1°C/±0.5°C

Ambient temperature range +18°C to +33°C

Power requirement 120 V, 50/60 Hz

Cat. No.	Mfr. No.	Description	Qty.
Heracell™ 150i incubator (5.3 cu. ft.) - single chamber			
J1805-25	51026282	Stainless steel interior, TC sensor, 90°C high temp decontamination	1/ea
J1805-27	51026406	Stainless steel interior, IR sensor, 90°C high temp decontamination	1/ea
51026283	51026283	100% pure copper interior, TC sensor	1/ea
51026534	51026534	100% pure copper interior, IR sensor	1/ea
Heracell™ 150i (5.3 cu. ft.) - dual incubator stack units			
J1805-26	50116048	Dual Stack, 2 x 51026282 with roller base, stainless steel interior, TC sensor	1/ea
50116050	50116050	Dual Stack, 2 x 51026283 with roller base, 100% pure copper interior, TC sensor	1/ea
Heracell™ 150i tri-gas incubator(5.3 cu. ft.)			
51026410	51026410	Stainless steel interior, TC sensor, O ₂ control range 1–21% - 3 door inner glass door assembly	1/ea
51026408	51026408	100% pure copper interior, TC sensor O ₂ control range 1–21% - 3 door inner glass door assembly	1/ea
51026402	51026402	Stainless steel interior, IR sensor - O ₂ control range 1–21% - 3 door inner glass door assembly,	1/ea
51026537	51026537	100% pure copper interior, IR sensor, O ₂ control range 1–21% - 3 door inner glass door assembly	1/ea
Heracell™ 240i - single chamber (8.4 cu. ft.)			
51026331	51026331	Stainless steel interior, TC sensor	1/ea
51026332	51026332	100% pure copper interior, TC sensor	1/ea
51026420	51026420	Stainless steel interior - IR sensor	1/ea
51026419	51026419	100% pure copper interior - IR sensor	1/ea
Accessories			
J1805-34	95001012	CO ₂ gas regulator, 2-stage, for gas tank	1/ea
J1805-33	50059043	External gas guard for Heracell™	1/ea
J1805-31	50057161	Roller base, support frame for 150i	1/ea
50067224	50067224	Support frame with castors for double chamber 240i, 200 mm high	1/ea

Thermo Scientific Heracell™ VIOS CO₂ 160i and 250i Incubators

THERMO FISHER SCIENTIFIC - Heracell™ VIOS series represents a new era in advanced incubator design for sensitive cultures like stem and primary cells in leading research, pharmaceutical and clinical laboratory applications. The Heracell VIOS CO₂ incubator delivers the performance reliability, ease of operation and value required to support a range of culturing needs.

Better solutions for optimal cell growth. Get added culturing flexibility with our CO₂ incubators with variable oxygen control (tri-gas).

Features include:

- Choice of either 165 L (5.8 cu. ft.) or 255 L (9 cu. ft.), 255 L chamber accommodates high throughput and large culture vessels
- Choice of electropolished stainless steel or 100% pure copper
- Incubators with 100% pure copper interiors are easy-to-clean, provide long service life and safe for cultured cells
- Adjustable, perforated shelving
- Easy-to-clean, coved-corner interior with convenient access port
- Reversible exterior door for added flexibility
- THRIVE active airflow technology: fan distributes clean, humidified air throughout the chamber ensuring homogeneous conditions
- Condensation free humidification system: covered integrated humidity reservoir to maximize relative humidity without condensation
- ISO-Class 5 HEPA filtration: clean room air quality is achieved in the culture chamber within 5 minutes, filters air volume every 60 seconds
- Steri-Run™ high temperature sterilization: fully automatic 180°C cycle assures total, uniform sterilization of all chamber surfaces (12 log SAL)
- Intuitive, interactive iCAN™ Touchscreen interface provides complete data visibility to monitor all incubator interactions
- Choice of accurate and reliable CO₂ sensor technology: TC180 sensor is ideal for everyday cell culture applications, IR180Si infrared CO₂ sensor is ideal for the best of both technologies for advanced, high volume, or value culturing.



Specifications:

CO ₂ control	±0.1%	Temperature control	±0.1°C
CO ₂ range	1 to 20%	Temperature range.....	3°C above ambient to 55°C
O ₂ control	±0.1%	Temperature uniformity.....	< ±0.3°C
O ₂ range	1 to 21% or 5 to 90%	Power requirement	120 V, 50/60 Hz

Cat. No.	Mfr. No.	Description	Qty.
Heracell™ 160i incubator (5.8 cu. ft.) - 100% copper interior			
51030284	51030284	TC CO ₂ sensor	1/ea
51030408	51030408	Tri-gas with 1–21% O ₂ control - TC CO ₂ sensor - gas tight 3-segment inner door	1/ea
51030401	51030401	IR CO ₂ sensor	1/ea
51030410	51030410	Tri-gas with 1–21% O ₂ control - IR CO ₂ sensor - gas tight 3-segment inner door	1/ea
51030411	51030411	Tri-gas with 5–90% O ₂ control - IR CO ₂ sensor - gas tight 3-segment inner door	1/ea
Heracell™ 160i incubator (5.8 cu. ft.) - stainless steel interior			
51030285	51030285	TC CO ₂ sensor	1/ea
51030403	51030403	Tri-gas with 1–21% O ₂ control - TC CO ₂ sensor - gas tight 3-segment inner door	1/ea
51030400	51030400	IR CO ₂ sensor	1/ea
51030405	51030405	Tri-gas with 1–21% O ₂ control - IR CO ₂ sensor - gas tight 3-segment inner door	1/ea
51030406	51030406	Tri-gas with 5–90% O ₂ control - IR CO ₂ sensor - gas tight 3-segment inner door	1/ea
Heracell™ 250i incubator (9 cu. ft.) - 100% copper interior			
51030963	51030963	TC CO ₂ sensor	1/ea
51031048	51031048	Tri-gas with 1–21% O ₂ control - TC CO ₂ sensor - gas tight 6-segment inner door	1/ea
51030991	51030991	IR CO ₂ sensor	1/ea
51031159	51031159	Tri-gas with 1–21% O ₂ control - IR CO ₂ sensor - gas tight 6-segment inner door	1/ea
Heracell™ 250i incubator (9 cu. ft.) - stainless steel interior			
51030964	51030964	TC CO ₂ sensor	1/ea
51031047	51031047	Tri-gas with 1–21% O ₂ control - TC CO ₂ sensor - gas tight 6-segment inner door	1/ea
51030992	51030992	IR CO ₂ sensor	1/ea
51031160	51031160	Tri-gas with 1–21% O ₂ control - IR CO ₂ sensor - gas tight 6-segment inner door	1/ea

Incubators

Thermo Scientific™ Heratherm™ Compact Incubator

THERMO FISHER SCIENTIFIC - The most compact unit of the Heratherm™ microbiological incubator family has an 18 L capacity, ideal for a personalized workspace.

- Minimal footprint for space restricted lab areas
- Temperatures at or below ambient
- High temperature accuracy
- Internal light facilitates sample observation
- Two stainless steel shelves



Specifications:

Temperature range 17°C to 50°C
 Temperature uniformity ±1.2°C (measured at 37°C)
 Temperature stability ±0.2°C (measured at 37°C)
 Power requirements 100–240 V, 50/60 Hz, 45 W, 0.45–0.85 A

Dimensions (W x H x D)

Chamber 7.1 x 12.2 x 11.4 in.
 Exterior 10.2 x 16.3 x 18.5 in.

Cat. No.	Mfr. No.	Description	Qty.
J1790-54	50125590	0.65 cu. ft. (18 L) compact incubator	1/ea

Thermo Scientific™ Heratherm™ General Protocol Microbiological Incubators

THERMO FISHER SCIENTIFIC – This incubator is suited for routine applications in pharmaceutical, medical, food and research laboratories, with sample safety in mind. Gravity convection provides gentle airflow and minimal drying out.

- Corrosion-resistant, stainless steel chamber (1.4016 / AISI 430)
- Easy to clean rounded edges
- Stackable—No tools or kit required
- Large, easy to read vacuum fluorescent display
- Internal glass door allows sample viewing without impacting temperature



Specifications:

Temperature range Ambient +5°C to 75°C
 Temperature uniformity ±0.6°C (measured at 37°C)
 Temperature stability ±0.2°C (measured at 37°C)

J1790-42 dimensions (D x W x H)

Chamber 16.3 x 13.9 x 20.0 in.
 Exterior 22.2 x 20.9 x 28.3 in.

J1790-43 dimensions (D x W x H)

Chamber 16.3 x 18.3 x 23.9 in.
 Exterior 22.2 x 25.2 x 32.3 in.

J1790-44 dimensions (D x W x H)

Chamber 23.2 x 18.3 x 27.9 in.
 Exterior 29.1 x 25.2 x 36.2 in.

Cat. No.	Mfr. No.	Description	Qty.
J1790-42	51028063	2.6 cu. ft. (60 L) incubator	1/ea
J1790-43	51028064	4 cu. ft. (100 L) incubator	1/ea
J1790-44	51028065	6.3 cu. ft. (180 L) incubator	1/ea
51029321	51029321	14.3 cu. ft. (405 L) incubator - 120 V, 60 Hz, 720 W, 6 A	1/ea
51029333	51029333	26.4 cu. ft. (747 L) incubator - 120 V, 60 Hz, 1,500 W, 12.5 A	1/ea

Thermo Scientific™ Heratherm™ Advanced Protocol Microbiological Incubators

THERMO FISHER SCIENTIFIC - Innovative dual convection technology with excellent temperature performance, providing an optimal, sample environment.

- Dual convection for application versatility—fan speed adjustable from 0% to 100%
- Advanced digital timer for daily or weekly ON/OFF cycles
- Internal socket for connection of electrical device such as shakers or stirrers inside unit
- Easy to clean rounded edges
- Stackable—no tools or kit required
- Corrosion-resistant, stainless steel interior (1.4301/AISI 304)
- Large, easy-to-view vacuum fluorescent display
- Internal glass door allows sample viewing without impacting temperature



Specifications:

Temperature range 5°C above ambient to 105°C

Temperature uniformity ±0.2 °C (measured at 37°C)

Temperature stability ±0.1°C (measured at 37°C)

J1790-46 dimensions (W x H x D)

Chamber 18.3 x 23.9 x 16.3 in.

Exterior 25.2 x 32.3 x 22.2 in.

J1790-45 dimensions (W x H x D)

Chamber 13.9 x 20.0 x 16.3 in.

Exterior 20.9 x 28.3 x 22.2 in.

J1790-47 dimensions (D x W x H)

Chamber 21.4 x 18.3 x 27.9 in.

Exterior 29.1 x 25.2 x 36.2 in.

Cat. No.	Mfr. No.	Description	Qty.
J1790-45	51028066	2.3 cu. ft. (66 L) incubator - 120 V, 60 Hz, 600 W, 5 A	1/ea
J1790-46	51028067	3.67 cu. ft. (104 L) incubator - 120 V, 60 Hz, 840 W, 7 A	1/ea
J1790-47	51028068	6.3 cu. ft. (178 L) incubator - 120 V, 60 Hz, 1,020 W, 8.5 A	1/ea

Thermo Scientific™ Heratherm™ Advanced Protocol Security Incubators

THERMO FISHER SCIENTIFIC - This incubator provides sample protection with all the features of the General and Advanced Protocol models plus:

- Certified 140°C decontamination cycle. At 140°C contaminating microorganisms are reduced to a minimum, comparable to sterilization, within a six hour cycle
- No need for separate autoclaving of interior fittings
- Certified by an accredited microbiological institute
- Lockable incubator door for restricted access
- Audible alarm if door is left open. Automatic over-and-under temperature alarm
- Stainless steel exterior available separately



Note: Access port replaces internal socket due to decontamination cycle

Specifications:

Temperature range 5°C above ambient to 105°C

Temperature uniformity ±0.6°C; models J1790-48, J1790-49, J1790-50

Temperature uniformity ±0.2°C; model 51029323

Temperature stability ±0.1°C; models J1790-48, J1790-49, J1790-50

Temperature stability ±0.2°C; model 51029323

J1790-49 dimensions (W x H x D)

Chamber 18.3 x 23.9 x 16.3 in.

Exterior 25.2 x 32.3 x 22.2 in.

J1790-50 dimensions (D x W x H)

Chamber 21.4 x 18.3 x 27.9 in.

Exterior 29.1 x 25.2 x 36.2 in.

J1790-48 dimensions (W x H x D)

Chamber 13.9 x 20.0 x 16.3 in.

Exterior 20.9 x 28.3 x 22.2 in.

51029323 dimensions (D x W x H)

Chamber 20.6 x 21.4 x 52.6 in.

Exterior 30.3 x 30.6 x 60.8 in.

Cat. No.	Mfr. No.	Description	Qty.
J1790-48	51028069	2.6 cu. ft. (60 L) incubator	1/ea
J1790-49	51028070	4 cu. ft. (100 L) incubator	1/ea
J1790-50	51028111	6.3 cu. ft. (180 L) incubator	1/ea
51029323	51029323	13.45 cu. ft. (381 L) incubator - 120 V, 60 Hz, 1380 W, 11.5 A	1/ea

Microscopes and Accessories

Microscopes

Test Tube Agglutination Viewer

BD DIAGNOSTICS - Use for blood typing, cross matching, prothrombin time, Kahn and other agglutinations, flocculation and serodiagnostic tests. Viewer provides a magnified view of the undersurface of test tube contents and permits an easier and more accurate reading than a magnifying lens. Test tube contents are illuminated from above by a 5 W bulb and from below by a magnifying mirror.

Cat. No.	Mfr. No.	Description	Qty.
L6045-1A	420630	Test Tube Agglutination Viewer	1/ea
L6045-5AA	421484	Replacement bulb	2/pk



Cordless Medical and Research Microscope

C & A SCIENTIFIC - The research microscopes offer the same optics as our larger professional scopes with ball bearing movements in focusing and stage systems to ensure long life, reliability and accuracy. Complete with standard popular accessories. Contemporary body design includes space-saving, rear-facing objectives and low-position mechanical stage controls providing more comfort for the user.

Features:

- 30° inclined binocular Seidentopf style head, rotatable 360°
- Pair of 10X widefield eyepieces
- 4 DIN objectives: 4X (N.A. 0.10), 10X (N.A. 0.25), 40X (N.A. 0.65), 100XR (oil immersion, N.A. 1.25)
- Magnifications: 40X to 1000X
- 4½ x 5 in. (130 x 125 mm) mechanical stage with coaxial drive/rack and pinion adjustment, low knob position
- Abbe condenser NA 1.25
- Iris diaphragm with filter holder including blue filter
- Coaxial coarse and fine focusing
- International voltage, 100–240 V
- Spare bulb, immersion oil, vinyl dust cover, blue filter
- Size: 6½ x 8¼ x 15 in. H; net weight: 10½ lbs.
- Variable intensity 4.5 V LED cool illumination system
- Built in rechargeable battery with detachable AC power cord
- CE certified

Cat. No.	Mfr. No.	Description	Qty.
MRJ-03L	MRJ-03L	Cordless Research Microscope with LED light system	1/ea

Professional MRP-3001 Binocular Microscope

C & A SCIENTIFIC - The professional binocular microscope incorporates all the best features of a quality laboratory instrument. Providing quality images with a higher resolution ratio and a wide, clear range. The LED illuminator reduces eye-strain and the large mechanical stage with low-position controls provide more comfort for the user over extended use. A durable and reliable microscope.

Features:

- 30° inclined binocular Seidentopf style head, rotatable 360°
- Pair of 10X widefield eyepieces, interpupillary distance adjustable 55–75 mm, ±5° diopter control
- 4 DIN achromatic parfocal and parcentered objectives: 4X (N.A. 0.10), 10X (N.A. 0.25), 40XR (N.A. 0.65), 100XR (oil immersion N.A. 1.25)
- Magnifications: 40X to 1000X
- 140 x 132 mm mechanical stage (range of travel 77 x 50 mm) with coaxial drive, low knob position
- Abbe condenser NA 1.25 and Iris diaphragm with filter holder including blue, yellow and green filters
- Coaxial coarse and fine focusing
- Variable intensity 6 V 500MA LED bulb
- Wide range voltage for international markets, 100–240 V
- Detachable UL approved power cord
- Immersion oil, vinyl dust cover, color filters
- Net weight: 11 lbs.
- CE certified

Cat. No.	Mfr. No.	Description	Qty.
MRP-3001	MRP-3001	Professional LED microscope	1/ea

Microscopes and Accessories

Microscopes



BK-Series Microscopes

JENCO INTL - Infinity planachromatic optics provide outstanding flatness, clarity, contrast and superb image resolution.

Easy to use - Jenco simplified set up

- Installed and centered objectives, condenser
- 3 quick steps: place head on frame, eye pieces in head, power cord – done

Easy to choose - Infinity design allows multiple techniques to work on one frame. Attach modular kits or order complete with:

- Fluorescence – clinical for AFB test, fluorescent filters
- Polarization – urinalysis, identify crystals with first class red compensator components
- Phase contrast – bacteria more visible, added contrast and depth
- Education – features protect and minimize damage or loss of parts

Specifications:

Optical body.....Inclined 30°, rotates 360°; 55–75 mm interpupillary adjustment
Eyepieces.....Wide field 10X eye pieces, FN 22
Focus mechanism.....Coaxial coarse and fine adjustments markings 0.002 mm increments
IlluminationKoehler, LED or 20 W, 6 V halogen bulb with electronic dimmer
Power requirements:.....AC 110–240 V, 50/60 Hz
Dimensions (L x W x H)12 x 8 x 15 in.
Weight20 lbs.

Standard: 10X eye pieces FN22; Infinity Plan bright field objectives: 4, 10, 40 and 100X; phase contrast 10, 20, 40 and 100X; power cord, dust cover, immersion oil, blue filters spare lamp, fuse; phase telescoping eyepiece, green filter phase; anti-microbial treatment on frame and head

Cat. No.	Mfr. No.	Description	Qty.
BK-211	BK-211	Binocular - Bright Field	1/ea
BK-221	BK-221	Binocular - Phase Contrast	1/ea
BK-2EF	BK-2EF	Binocular - Fluorescence	1/ea
BK-2PL	BK-2PL	Binocular Bright Field with polarization for clinical use	1/ea
Objective lenses			
OP-050	OP-050	50XR (oil)	1/ea



CK Series Microscope

JENCO INTL - Striking design combines exceptional Infinity E-plan achromat optics with durability and ease of use for routine tasks like wet preps, gram stains, counting.

Ease of use

- Quick focus - stage lock built in, raise stage to stop, view specimen, fine focus
- Load slides fast – inward facing objectives
- Slide holder, gentle spring loaded, capacity 2
- Enhance contrast with iris diaphragm
- Portable - handle integrated, easy to carry

Durability

- 5-year warranty – robust frame yet light at 14.3 lbs.
- All glass components stay bright, last over time

Specifications:

Head 30° inclination, 360° rotation, Seidentopf with 50 to 75mm interpupillary adjustment
Eyepieces..... 10X wide-field, field no. 20 mm
Turret..... Reversed, four position ball-bearing
Stage..... Mechanical, vernier scale, 5.6 x 5.5 in.
Condenser..... 1.25 N.A. Abbe with iris diaphragm and markings that correspond to objectives
Illumination ... 20 W halogen or LED (rechargeable option) with dimmer

Cat. No.	Mfr. No.	Description	Qty.
CK-102	CK-102	Binocular microscope	1/ea

Microscopes and Accessories

Microscopes

DG6 Economy Stereo Microscope

JENCO INTL - Works like a 3-D TV, use Greenough design, both eyes to enable a three-dimensional stereo effect.

Ideal image reproduction

- Adds depth to a crisp, clear and flat image
- Superior optics = vivid details, wide field of view at 29 mm
- Continuous zoom 7X–45X; 6.3:1 zoom ratio



Easy to use

- Large flat stage - ample room to manipulate sample, 100 mm working distance
- LED illumination - three directions
- Parfocal - stays in focus

Reliable and durable

- Solid metal mechanisms endure high usage
- Five-year warranty

Specifications:

Power requirements: Input 110/220 VAC

Dimensions (W x D x H) 11 x 8 x 13 in., base height 1.5 in.

Weight 13 lbs.

Cat. No.	Mfr. No.	Description	Qty.
DG6-2L	DG6-2L	Economy binocular stereo microscope - includes: 10X eye pieces, optical body, dust cover, power cord and manual, head inclined 45°, diopter adjustable	1/ea

i4: 4 Objective Infinity Microscopes

LW SCIENTIFIC - The i4 modular series microscopes feature exceptional optical quality and expandability for top-notch performance in the lab. Use the rotating head to adjust the height for taller users. Infinity Plan or Semi-Plan optics with a 30-year antifungal coating match quality with value within any clinic or laboratory budget. The i4 microscope provides durability, dependability and superior imaging in the laboratory. LED illumination. 4X, 10X, 40X, and 100X (oil) objectives.



Specifications:

Head Inclined 30°, rotates 360°

Eyepiece 10X/18X wide-field eyepieces

Objectives Infinity Semi-Plan or Plan objectives 4X, 10X, 40XR, 100XR (oil)

Illumination Variable LED "daylight" long-life light source

Power requirements 100–240 V, 50/60Hz

Dimensions (H x L x W) 14.1 x 10.7 x 6.1 in.

Cat. No.	Mfr. No.	Description	Qty.
M8000-81	I4M-BN4A-IPL3	Binocular head - Infinity Plan objectives, LED	1/ea
M8000-78	I4M-BN4A-ISL3	Binocular head - Infinity Semi-Plan objectives, LED	1/ea
M8000-80	I4M-TN4A-IPL3	Trinocular head - Infinity Plan objectives, LED	1/ea
M8000-79	I4M-TN4A-ISL3	Trinocular head - Infinity Semi-Plan objectives, LED	1/ea

Innovation Biological Microscope

LW SCIENTIFIC - The Innovation microscope is equipped with powerful performance, crisp clarity, and rugged construction backed by a lifetime warranty on optical and mechanical components.

Developed with high-contrast Infinity Plan objectives, the Innovation microscope produces sharp, crisp, flat-field images across the entire field of view. The 4-objective model features 4X, 10X, 40X and 100X (oil) – and the 5-objective model features 4X, 10X, 20X, 40X and 100X (oil). The reverse nosepiece allows for greater access to slides for quick changes. The bright, white, uniform LED illumination maintains constant daylight-color, showing stained specimens in their true vibrant colors. With variable intensity, it is more than bright enough for routine brightfield microscopy and also well suited for applications such as phase contrast and darkfield. The LED bulb lasts approximately 50,000 hours.

The Innovation microscope with BioVIEW camera and monitor is the essential tool for live presentations and client education. The premium BioVID HD1080+ camera paired with the 1080p 11.6 in. HD Monitor provides a bright and beautiful image, and software is included. This is a complete video system – all included with only 1 part number.

Specifications:

Head Inclined 30°, rotates 360°

Eyepiece 10X/22 super wide-field HP eyepieces

Objectives 4X, 10X, 40XR and 100XR (oil)

Illumination Variable LED light source

Dimensions (H x L x W) 16 x 15 x 8.5 in.



NMB04AIPL3 with BioVIEW camera and monitor



Cat. No.	Mfr. No.	Description	Qty.
NMB04AIPL3	INM-B04A-IPL3	Binocular - Infinity Plan, 4 objectives, LED	1/ea
NMB05AIPL3	INM-B05A-IPL3	Binocular - Infinity Plan, 5 objectives, LED	1/ea
NMT04AIPL3	INM-T04A-IPL3	Trinocular - Infinity Plan, 4 objectives, LED	1/ea
NMT05AIPL3	INM-T05A-IPL3	Trinocular - Infinity Plan, 5 objectives, LED	1/ea
NST4BVIPL3	INS-T4BV-IPL3	Trinocular, 4 objectives, LED, with BioVIEW camera and monitor	1/ea

Microscopes and Accessories

Microscopes

Revelation III Microscopes

LW SCIENTIFIC INC - The Revelation III is a professional-grade economically-priced clinical microscope. It comes with LED illumination for daylight color, low heat, low power consumption, and super-long bulb life (30,000 hours). Equipped for performance, it features DIN achromatic or DIN Plan optics and a 30-year anti-fungal coating. They also feature coarse adjustment with a range of 30 mm and fine adjustment with a graduation of 2 μ . The Dual-Binocular model allows two users to look in at the same time (front/back orientation) for collaboration and training.



Specifications:

Head Inclined 30°, rotates 360°
Eyepiece 10X/18X wide-field eyepieces
Objectives DIN Achromatic 4X, 10X, 40X, 100XR (oil)
Illumination Variable LED light source
Power requirements 90–240 V, 50/60Hz
Dimensions (H x L x W) 15 x 9 x 7 in.

Cat. No.	Mfr. No.	Description	Qty.
RMBN4ADAL3	R3M-BN4A-DAL3	Binocular head - DIN Achromatic objectives, LED	1/ea
M8000-112	R3M-BN4A-DPL3	Binocular head - DIN Plan objectives, LED	1/ea
M8000-17	R3M-DN4A-DAL3	Dual-Binocular head – DIN Achromatic objectives, LED	1/ea

BioVIEW Camera and Monitor

LW SCIENTIFIC - The BioVIEW microscope camera and monitor is the essential tool for live presentations and client education. The premium BioVID HD1080+ camera paired with the 1080p 11.6 in. HD Monitor provides a bright and beautiful image. Simply mount the camera onto any trinocular c-mount for amazing resolution and fast-action video (60 fps). Using the included mouse and SD card, click to save and view images and videos...even view side-by-side comparisons.



Specifications:

Monitor Panasonic super TFT LCD display
Display resolution True 1080p resolution
Display viewing area 11.6 in., LED backlight with 50,000 hours
Camera resolution 1920 x 1080
Memory card 8GB SD card
HDMI/USB interface Yes
Power supply 100–240 V, 50/60 Hz, DC output:12 V, 1 A
Dimensions (H x L x W) 3.6 x 2.8 x 3.1 in.

Cat. No.	Mfr. No.	Description	Qty.
VC1080TVK3	BVC-1080-TVK3	BioVIEW camera and monitor	1/ea

BioVID HD 1080+ Microscope Camera

LW SCIENTIFIC - The BioVID HD 1080+ microscope camera connects to any trinocular microscope via C-mount threading and plug the HDMI cable into any large screen HDTV for amazing resolution and fast-action video (60 fps). Use the included USB cable and advanced imaging software to save and edit images and videos on your computer. Or save images and videos to the included SD card for portability and future use. The BioVID HD 1080+ has 1920 x 1080 resolution, increased sensitivity, low-noise and great color rendition – creating stunning, high-resolution images with smooth live-image display.

Specifications:

Resolution 1920 x 1080
Memory card 8GB SD card
USB interface Yes, includes advanced software
Power supply 100–240 V, 50/60 Hz, DC Output: 12 V, 1 A
Dimensions (H x L x W) 3.6 x 2.8 x 3.1 in.



Microscope and screens not included

Cat. No.	Mfr. No.	Description	Qty.
VC1080CMT3	BVC-1080-CMT3	BioVID HD 1080+ microscope camera only	1/ea

Microscopes and Accessories

Microscopes

MiniVID USB Cameras

LW SCIENTIFIC - The MiniVID USB is our best-selling camera series for microscopy. Choose from a 5.1 MP USB 2.0 model, or the faster 6.3 MP USB 3.0 model. It can be mounted to nearly any brand or type of microscope, either into the eye-tube of a binocular microscope, or thread-mounted onto any trinocular c-mount. Optical eyetube adapter included.



Economy model - MiniVID 5.1 MP USB 2.0 works on any MAC or PC computer with USB 2.0 port

Specifications (MiniVID 5.1 MP):

Sensitivity 1.2 lux sensitivity; 2.0 USB for "LIVE" streaming
Image sensor Color CMOS chip - 5.1 MP
Resolution..... 2592 x 1944 pixels, 2.2 um pixel size
Interface..... USB 2.0
Frame rate 5 fps @2592 x 1944, 18 fps @1280 x 960,
60 fps @640 x 480
Software..... ToupView micro-image analysis software, save digital
images and videos

Highest quality for professional use - MiniVID 6.3 MP USB 3.0 has a very fast frame rate for fast-action digital video. Works on any MAC or PC computer with USB 3.0 port.

Specifications (MiniVID 6.3 MP):

Sensor Sony sensor; 3.0 USB for super-fast "LIVE" streaming
Image sensor Color Sony CMOS chip - 6.3 MP
Resolution..... 3072 x 2048, 2.4 um pixel size
Interface..... USB 3.0
Frame rate 30 fps @ 3072 x 2048, 38 fps @ 1536 x 1024
Software..... ToupView micro-image analysis software, save digital
images and videos

Cat. No.	Mfr. No.	Description	Qty.
VCU5MPEMTN	MVC-U5MP-EMTN	5.1 MP USB 2.0 digital eyepiece/c-mount camera with software	1/ea
VCU5MPUSB3	MVC-U6MP-USB3	6.3 MP USB 3.0 super-fast camera with Sony sensor and software	1/ea

50X Infinity Oil Objective

LW SCIENTIFIC - The 50X Infinity Plan oil objective is the highest resolution objective available, and can be added to nearly any brand of microscope that has standard-size infinity objectives. Plan means a 100% flat field of view, and oil immersion eliminates refraction for the highest clarity for cytology samples. This is a popular add-on objective for the i4 and Innovation microscopes.



Cat. No.	Mfr. No.	Description	Qty.
40050XIPOL	I4O-050X-IPOL	50X Infinity Plan oil objective, RMS threading	1/ea



Microscope and iPad not included

MiniVID WiFi Camera

LW SCIENTIFIC - The MiniVID WiFi 5 MP Camera is an incredible addition to our camera line. It can be mounted to nearly any brand or type of microscope with trinocular c-mount or inserted into one eyetube of a binocular head using the optional eyetube adapter. Connect to any iOS device (iPhone/iPad) or Android phone/tablet through the "UCAM Plus" app. Additionally, the MiniVID WiFi can be utilized with the included software for all PCs. The MiniVID WiFi has many different applications, but is best suited for teaching, training, and educating clients and students.

- **Take the microscope image** to the client, not the client to the microscope
- **Best of both:** High resolution and fast frame rates
- **Stream live images** to multiple devices at the same time

Specifications:

Image sensor ½ in. color CMOS 5 MP
Interface..... USB 2.0 to PC or WiFi to hand-held phone or tablet
Frame rate USB mode - 40 fps @ 640 x 480, 15 fps @ 2592 x 1944
WiFi mode - 30 fps @ 640 x 480, 5 fps @ 2592 x 1944
Software..... Micro-capture full function for images and video
Mounting..... Trinocular c-mount

Cat. No.	Mfr. No.	Description	Qty.
MVCU5MPWIF	MVC-U5MP-WIFI	MiniVID WiFi Camera	1/ea

Simple Polarizer Microscope Adaptor

LW SCIENTIFIC - Add another level of usability to your i4 microscope with the simple polarizer attachment. This adapter makes urine crystals easier to see and identify. This adapter is NOT suitable for rheumatology applications.



Cat. No.	Mfr. No.	Description	Qty.
I4PPOL7777	I4P-POL7-7777	Simple Polarizer Microscope Adaptor	1/ea

Microscopes and Accessories

Microscopes



Westlab III Binocular Microscope

SEILER - This binocular microscope is designed for general use in clinical laboratories. It features low-position, coaxial coarse and calibrated fine focus control. It has two 10X wide-field eyepieces with four semi-plan achromat objectives including 4X, 10X, 40X and 100X oil objective, all mounted on a ball-bearing inward quadruple click stop nosepiece. Automatic 100–240 V universal power supply, 6 V, 20 W halogen illumination and an optional live video feature. The microscope also comes with a dust cover, blue filter, immersion oil, spare bulb and instruction manual.

Cat. No.	Mfr. No.	Description	Qty.
WLB814	WLB814	Binocular microscope	1/ea

ZM180-Series Zoom Stereo Microscope

UNICO - This microscope is ideal for a variety of industrial, medical, educational and special OEM applications. It features a binocular body and has a comfortable 45° inclination angle. The body may be rotated 360° for group sessions. Dual diopter adjustment of five diopters enables precise setting to focus according to individuals' needs. Total magnification range extends from 2.1 to 225X. Interpupillary adjustment range from 55 to 75 mm.



Specifications:

Eyepiece.....	WF10X
Zoom range	0.7 to 4.5X
Illumination	Top halogen and bottom fluorescent
Objectives	1X

Cat. No.	Mfr. No.	Description	Qty.
ZM181HF	ZM181HF	Binocular head with PE-HF stand	1/ea
D4-2001	D4-2001	2X auxiliary lens	1/ea
D4-2004	D4-2004	0.5X auxiliary lens	1/ea

G380-Series Microscopes

UNICO - These microscopes provide crisp, clear imaging on a versatile and ergonomic platform. They were designed with your viewing comfort in mind. The standard 10X high eye-point eyepieces are engineered to reduce eyestrain for users wearing glasses. Each eye tube features an independent focusing diopter adjustment to compensate for the natural vision differential between each eye. The base design adds stability to the body while allowing extra room for hand access to the oversized coarse and fine focus controls and the coaxial mechanical stage controls. The microscopes are available with monocular, binocular or dual-view heads. Binocular head features Seidentopf optical design with 52 to 75 mm interpupillary distance adjustment. All rotate 360° and lock in place with a thumbscrew. All optics feature anti-glare, color-correction and antifungal coatings.



Specifications:

Eyepiece.....	10X high-eyepoint widefield
Objectives	4X, 10X, 40XR and 100XR
Focusing.....	Coaxial coarse and fine focus
Illumination	LED light source

Cat. No.	Mfr. No.	Description	Qty.
G380	G380	Binocular head	1/ea
G380PL	G380PL	Binocular head with Plan objectives	1/ea
G381	G381	Monocular head	1/ea
G383PL	G383PL	Trinocular head with Plan objectives	1/ea

Osmometers

Advanced™ 3250 Single-Sample Osmometer

ADVANCED INSTRUMENTS - The Advanced™ 3250 Single-Sample Osmometer utilizes the freezing-point method for an accurate determination of total concentration. It features a traditional liquid cooling bath design and offers a wide measurement range of 0 to 4,000 mOsm using a 250 µL sample size. It is ideally suited for routine osmolality testing in the clinical laboratory and also for research applications in pharmaceutical, academic and industrial laboratory settings.



Specifications:

Sample test volume 250 µL
Typical testing time 2-3 minutes
Resolution 1 mOsm/kg H₂O
Dimensions (W x D x H) 13 x 18 x 16 in.
Power requirements 100–240 V, 50/60 Hz

Ranges

Low 0 to 2,000 mOsm/kg H₂O
High 1,400 to 4,000 mOsm/kg H₂O

Cat. No.	Mfr. No.	Description	Qty.
N6025-30	3250	Advanced™ 3250 Single-Sample Osmometer	1/ea
N6025-11	3LA825	Disposable sample tubes	500/pk
N6024-15	3DA811	Heat transfer fluid - 150 mL bottle	1/ea
N6024-9	FLA835	Thermal printer paper	5/pk

Fiske™ 210 Micro Sample Osmometer

ADVANCED INSTRUMENTS - The Fiske™ 210 freezing-point osmometer provides accurate osmolality results in less than 90 seconds requiring only a 20 µL sample. The fully accessible probe design is easy to clean and service. To use, pipette sample into a disposable sample tube and place the tube into the test chamber. Lower the probe into the sample and push the "test" button. Results are displayed in keypad window.



Specifications:

Sample test volume 20 µL
Test time Less than 90 seconds
Resolution 1 mOsm/kg H₂O
Range 0 to 2,000 mOsm/kg H₂O
Dimensions (W x D x H) 12 x 9½ x 12 in.
Power requirements 100–240 V, 50/60 Hz

Cat. No.	Mfr. No.	Description	Qty.
N6008-4	210	Fiske™ 210 Micro Sample Osmometer	1/ea
N6011-1	110825	Sample tubes and probe cleaners	250/pk
21055NA	21055NA	Thermal printer	1/ea
N6024-26A	3D3835	Thermal printer paper	5/pk

A₂O Osmometer Supplies and Accessories

ADVANCED INSTRUMENTS

Cat. No.	Mfr. No.	Description	Qty.
N200221	200221	A ₂ O probe wiper rings	50/bx
N200223	200223	A ₂ O sample tubes	500/bx
N200222	200222	A ₂ O system fluid (bottle) - 1 x 500 mL	1/ea
N6024-9	FLA835	Thermal printer paper	5/pk

Osmo1™ Single-Sample Micro-Osmometer

ADVANCED INSTRUMENTS - Osmo1™ Single-Sample Micro-Osmometer is designed for laboratories who prefer to directly draw and test small sample volumes and are looking for an osmometer that offers ease-of-use, accurate and precise results, and the security and efficiency of electronic data management.

Specifications:

Sample test volume 20 µL
Test time 90 seconds
Resolution 1 mOsm/kg H₂O
Range 0 to 2,000 mOsm/kg H₂O
Dimensions (W x D x H) 14 x 15 x 10 in.
Power requirements 100–240 V, 50/60 Hz

Cat. No.	Mfr. No.	Description	Qty.
OSMO1*	Osmo1	Osmo1™ Single-Sample Micro-Osmometer	1/ea
133800*	133800	Micro-sample test kit	500/pk
N6008-11	3M0825	Pipette 20 µL sampler	1/ea
N6024-20	3M0827	Pipette 20 µL calibration key	1/ea
N6024-9	FLA835	Thermal printer paper	5/pk

*New item replacement for 3320 Osmometer and 3MA800 Micro-sample test kit



Osmometers

Osmometers

OsmoPRO® Multi-Sample Micro-Osmometer

ADVANCED INSTRUMENTS - OsmoPRO® features a convenient carousel design for easy loading of up to 20 samples and requires only a small 20 µL sample volume. Large 7 in. touchscreen display seamlessly integrated with intuitive and functional software control capabilities. OsmoPRO® is ideally suited for mid- to high-volume laboratories who need to free up resources for other testing needs. OsmoPRO® has the built-in flexibility, automation and ease-of-use that allows users to simply load samples and walk away while the testing is completed.

Specifications:

Sample test volume	20 µL
Test time.....	2 minutes
Resolution.....	1 mOsm/kg H ₂ O
Range	0 to 2,000 mOsm/kg H ₂ O
Dimensions (W x D x H)	10 x 14.5 x 17.5 in.
Power requirements	100–240 V, 50/60 Hz



Multi-OSMETTE™ Auto-Sampling Turntable Osmometer

PRECISION SYSTEMS - Laboratory model freezing point osmometer for multiple 30 µL samples. Use the freezing point depression method to provide a quick, accurate indication of total concentration. Automatic digital osmometers measure osmolality in mOsm/kg H₂O.



- High capacity 24-position turntable - fast 50–70 seconds per reading
- Self identifying, fully automatic calibration
- Flexible calibration using from 2 to 5 calibration points
- 0-2,000 mOsm/kg range, built-in ink based printer

Comes with instruction manual, printer paper, printer ribbon, sample carousel, evaporation shield, 30 µL sample tubes, 1 pk of CON-TROL 290 ampules and calibration standards of 100, 500, 1,500 and 2,000 mOsm/kg. Power: 115 V, 50/60 Hz. Multi-OSMETTE™ is shipped assembled and ready to use.

Cat. No.	Mfr. No.	Description	Qty.
OSMOPRO	OSMOPRO	OsmoPRO® Multi-Sample Micro-Osmometer	1/ea
N6025-32A	202825	Disposable sample tubes	500/bx
N6025-31	202840	Probe wiper rings	50/bx
N6025-55	202850	Swab cleaner kit	50/bx
N6024-9	FLA835	Thermal printer paper	5/pk

Cat. No.	Mfr. No.	Description	Qty.
PS2430	2430	Auto-sampling turntable osmometer	1/ea
PS2020	2020	Sample tube - 30 µL	1,000/pk

Calibration Standards, Reference Solutions and Controls

ADVANCED INSTRUMENTS - Strengthen your laboratory's quality control program by using products made specifically for your osmometer.

Cat. No.	Mfr. No.	Description	Qty.
Calibration Standards			
3MA005	3MA005	50 mOsm calibration standard, 10 x 2 mL	10/pk
N6025-18	3LA011	100 mOsm calibration standard, 10 x 5 mL	10/pk
N6025-21	3LA010	100 mOsm calibration standard, 110 mL	1/ea
N6025-60	3MA020	200 mOsm calibration standard, 10 x 2 mL	10/pk
N6025-61	3MA040	400 mOsm calibration standard, 10 x 2 mL	10/pk
N6024-12	3LA051	500 mOsm calibration standard, 10 x 5 mL	10/pk
N6025-22	3LA050	500 mOsm calibration standard, 110 mL	1/ea
3MA085	3MA085	850 mOsm calibration standard, 10 x 2 mL	10/pk
N6025-19	3LA091	900 mOsm calibration standard, 10 x 5 mL	10/pk
N6025-23	3LA090	900 mOsm calibration standard, 110 mL	1/ea
N6025-62	3MA100	1,000 mOsm calibration standard, 10 x 2 mL	10/pk
N6025-25	3LA150	1,500 mOsm calibration standard, 110 mL	1/ea
N6024-13	3LA151	1,500 mOsm calibration standard, 10 x 5 mL	10/pk
N6025-27	3LA201	2,000 mOsm calibration standard, 10 x 5 mL	10/pk
N6024-14	3LA301	3,000 mOsm calibration standard, 10 x 5 mL	10/pk
Control Solutions			
3MA028	3MA028	Protinol 3-level serum osmometer control kit, 3 x 3 x 3 mL	1pk
N6025-28	3LA085	Renol 2-level urine control kit, 2 x 4 x 3 mL	1pk
Reference Solutions			
N6008-30	3MA029	Clinitrol 290 reference solution, 10 x 2 mL	10/pk
N6025-8	3LA029	Clinitrol 290 reference solution, 10 x 5 mL	10/pk
Osmolality Linearity Set			
3LA028	3LA028	Osmolality linearity set 100–2,000 mOsm, 10 x 5 mL	1/ea

Safety Cabinets and Fume Hoods

Labconco



Basic™ 47 Laboratory Hoods

LABCONCO - Basic™ Laboratory Hoods are designed specifically for laboratories, classrooms and light duty applications where safe ventilation is required. Constructed of powder-coated steel, Basic Hoods are economical and have a smaller overall height and depth than traditional hoods so they fit in areas with low ceilings or narrow aisles. Choose from 4-foot (Basic™ 47) and 6-foot (Basic™ 70) widths.

- By-pass airflow design
- Durable glacier white powder-coated 16-gauge steel exterior and interior resists chemical exposure
- Vertical-rising tempered safety glass sash
- Powder-coated steel 10.3 in. OD exhaust connection

Available with built-in blower or for use with remote blower.

Work surface and supporting base required (not included).

Cat. No.	Mfr. No.	Description	Qty.
L5150-30	2247300	Laboratory hood with 1/3 HP blower - 115 V, 60 Hz	1/ea
L5250-31	2247400	Laboratory hood without blower - 115 V, 50/60 Hz	1/ea
L5301-14	4882803	Flat solid epoxy work surface - 48 x 30 x 1.25 in. (W x D x H)	1/ea



Fiberglass 30 Laboratory Fume Hood

LABCONCO - Compact, benchtop Fiberglass 30 Laboratory Hoods are designed for research, educational and clinical applications requiring small working space and efficient fume removal. The fiberglass liner is corrosion-resistant, durable, fire-resistant and light reflective. The smooth one-piece molded liner construction offers fewer crevices for easy cleaning.

- Durable glacier white, powder-coated steel exterior
- One-piece molded fiberglass interior and pre-set baffle with flame spread index less than 25 per ASTM E-84
- Vertical-rising tempered safety glass sash
- 6.7 in. ID fiberglass exhaust connection

Available with built-in blower or for use with remote blower.

Work surface and supporting base required (not included).

Cat. No.	Mfr. No.	Description (W x D x H)	Qty.
L5501-40	3030000	Fume hood with 1/10 HP built-in blower, 30 x 30.2 x 48 in. - 115 V, 60 Hz	1/ea
F1307-30	4882806	30 x 30 x 1.25 in. flat solid epoxy work surface	1/ea

Paramount Ductless Enclosures

LABCONCO - Paramount Ductless Enclosures are self-contained work stations, also known as ductless fume hoods, that use carbon filters to rid the laboratory of annoying or unsafe concentrations of organic solvents, formaldehyde, acid gases, ammonia, or radioisotopes. Unlike traditional fume hoods, they require no ducting so they can be moved from lab to lab. Paramount Ductless Enclosures are capable of using both carbon and 99.99% efficient HEPA filters for removing gaseous and particulate contaminants. Filters used in the Paramount are sold separately and come in seven types: Ammonia-Amine, Acid-Sulfur, Organic Vapor, Formaldehyde-Formalin, Radioisotope, Mixed Bed and HEPA.

- Patented slotted rear baffle promotes horizontal laminar airflow to ensure vapors and fumes are drawn to the back of the enclosure without causing turbulence that could cause lack of containment
- Patented Clean-Sweep™ Air Foil
- Safety-First™ Vapor Sensor detects chemicals breaking through the filter ensuring operator protection is maintained
- Digital display of airflow and filter status, and touchpad control of enclosure operation
- Tempered safety glass front sash and sides
- Powder-coated aluminum frame



Cat. No.	Mfr. No.	Description (W x D x H)	Qty.
F63200	6963200	2 ft. enclosure - 24 x 29 x 44 in. - 115 V, 50/60 Hz	1/ea
F63301	6963301	3 ft. enclosure - 36 x 29 x 53 in. - 115 V, 50/60 Hz	1/ea

Safety Cabinets and Fume Hoods

Labconco



Protector Fiberglass Filtered Glove Box and Accessories

LABCONCO - Protector Filtered Glove Boxes provide inlet and outlet HEPA or ULPA filtration and a leak-tight physical barrier to protect the operator from exposure to potentially hazardous materials.

These glove boxes feature particulate containment <20 nanograms per cubic meter as confirmed by Safebridge Consultants, Incorporated and also meet ISO Class 3 standards. Labconco HEPA Filtered Glove Boxes may be appropriate for use as containment isolators for applications that include compounds assigned OEB 4 and OEB 5 banding levels.



Cat. No.	Mfr. No.	Description	Qty.
L5218-249	5065010	Protector HEPA-Filtered Glove Box with fiberglass liner 115 V	1/ea
Hands and sleeves for Protector® glove box			
L5281-34	5033100	Neoprene hand, size 10	12/pk
L5287-15	5005900	Neoprene accordion sleeves	2/pk
L5281-27	5005800	Neoprene straight sleeves	2/pk

Protector Airo™ Filtered Fume Hoods

LABCONCO - The Protector Airo™ Filtered Fume Hood* delivers uncompromising safety to confined laboratory spaces. Combining Labconco's patented fully-featured, containment-enhancing Protector® Hood design with Erlab's GreenFumeHood® (GFH) Filtration Technology to deliver a multi-use fume hood that requires no ducting.

The Protector Airo™ uses Neutrodine® Filters, the most comprehensive, safety-driven carbon filter available. This single molecular filter type can easily adsorb most chemicals and mixtures, taking the guesswork out of filter selection. Neutrodine Filters are required for operation and sold separately.

- Glacier white powder-coated steel exterior
- Single piece, tempered safety glass vertical-rising sash with cable and pulley, sash weight and powder-coated aluminum sash handle and tracks with Clean-Sweep™ airflow openings. Sash stop at 16 in. sash opening height. Sash opens to 26 in. high for loading.
- Built-in exhaust fan(s) to maintain 60 fpm face velocity at 16 in. sash opening height
- Audible/visual alarms for breakthrough detection, temperature ≥40°C (104°F), fan failure and high sash position opening. At ≥60°C (140°F), all fans stop.

Work surface, filters and supporting base required (not included).



Cat. No.	Mfr. No.	Description	Qty.
3 ft. model – 36 x 31.7 in. (W x D)			
184300000	184300000	No service fixtures - 115 V, 50/60 Hz	1/ea
184300001	184300001	2 service fixtures - 115 V, 50/60 Hz	1/ea
184300002	184300002	2 service fixtures + 1 GFCI duplex receptacle - 115 V, 50/60 Hz	1/ea
184300003	184300003	No service fixtures + 1 GFCI duplex receptacle - 115 V, 50/60 Hz	1/ea
3 ft. model – 36 x 37.7 in. (W x D)			
184310000	184310000	No service fixtures - 115 V, 50/60 Hz	1/ea
184310001	184310001	2 service fixtures - 115 V, 50/60 Hz	1/ea
184310002	184310002	2 service fixtures + 1 GFCI duplex receptacle - 115 V, 50/60 Hz	1/ea
184310003	184310003	No service fixtures + 1 GFCI duplex receptacle - 115 V, 50/60 Hz	1/ea
4 ft. model – 48 x 37.7 in. (W x D)			
184410000	184410000	No service fixtures - 115 V, 50/60 Hz	1/ea
184410001	184410001	2 service fixtures - 115 V, 50/60 Hz	1/ea
184410002	184410002	2 service fixtures + 1 GFCI duplex receptacle - 115 V, 50/60 Hz	1/ea
184410003	184410003	No service fixtures + 1 GFCI duplex receptacle - 115 V, 50/60 Hz	1/ea

*Available only in the Americas.

Safety Cabinets and Fume Hoods

Labconco

Protector Pass-Through Laboratory Hood

LABCONCO - Protector Pass-Through Laboratory Hoods offer sashes on two sides allowing operation on either side of the fume hood. An audible alarm sounds to prevent simultaneous opening of both sashes. With unobstructed visibility from either side, this hood is ideal for conducting chemistry demonstrations. An optional right-side or left-side viewing window further enhances visibility. These hoods may also be installed in the wall between two rooms for sample preparation.

- By-pass airflow design and by-pass blocks, one for each sash
- Glacier white powder-coated steel and aluminum exterior
- Powder-coated steel Eco-Foil™ air foil with Clean-Sweep™ airflow openings.
- Powder-coated aluminum sash handle with Clean-Sweep™ openings and Clean-Sweep™ slots on the powder-coated steel sash tracks
- Two tempered safety glass vertical-rising sashes with cable pulleys and sash stops mounted at 25 in. (63.5 cm) opening height
- Audible alarm that sounds when both sashes are open at the same time
- Side window models feature right or left side-mounted tempered safety glass window, 14.9 x 23.9 in. (37.8 x 60.7 cm)



Work surface, supporting base and remote blower required (not included).

Cat. No.	Mfr. No.	Description	Qty.
4 ft. model			
113400000	113400000	No window - no service fixtures - 115 V, 50/60 Hz	1/ea
113400002	113400002	No window - 2 service fixtures + 1 GFCI duplex receptacle - 115 V, 50/60 Hz	1/ea
113407000	113407000	Left side window - no service fixtures - 115 V, 50/60 Hz	1/ea
113407002	113407002	Left side window -2 service fixtures + 1 GFCI duplex receptacle - 115 V, 50/60 Hz	1/ea
113408000	113408000	Right side window - no service fixtures - 115 V, 50/60 Hz	1/ea
113408002	113408002	Right side window -2 service fixtures + 1 GFCI duplex receptacle - 115 V, 50/60 Hz	1/ea
5 ft. model			
113500000	113500000	No window - no service fixtures - 115 V, 50/60 Hz	1/ea
113500002	113500002	No window - 2 service fixtures + 1 GFCI duplex receptacle - 115 V, 50/60 Hz	1/ea
113507000	113507000	Left side window - no service fixtures - 115 V, 50/60 Hz	1/ea
113507002	113507002	Left side window -2 service fixtures + 1 GFCI duplex receptacle - 115 V, 50/60 Hz	1/ea
113508000	113508000	Right side window - no service fixtures - 115 V, 50/60 Hz	1/ea
113508002	113508002	Right side window -2 service fixtures + 1 GFCI duplex receptacle - 115 V, 50/60 Hz	1/ea
6 ft. model			
113600000	113600000	No window - no service fixtures - 115 V, 50/60 Hz	1/ea
113600002	113600002	No window - 2 service fixtures + 1 GFCI duplex receptacle - 115 V, 50/60 Hz	1/ea
113607000	113607000	Left side window - no service fixtures - 115 V, 50/60 Hz	1/ea
113607002	113607002	Left side window -2 service fixtures + 1 GFCI duplex receptacle - 115 V, 50/60 Hz	1/ea
113608000	113608000	Right side window - no service fixtures - 115 V, 50/60 Hz	1/ea

Safety Cabinets and Fume Hoods

Labconco



Protector Premier Laboratory Hoods

LABCONCO - Protector Premier Laboratory Hoods incorporate a sleek interior with a molded one-piece fiberglass liner. The one-piece liner of specially-formulated, fiberglass-reinforced polyester offers corrosion and fire resistance and easy clean up. Without seams, the interior has fewer points of deterioration for longer life.

These hoods are suitable for providing personal protection needed for general chemistry applications involving fumes and vapors. They meet the SEFA-1 standard of a low velocity, high performance hood and may be safely operated as low as 60 fpm. Choose from hoods designed to be used with a remotely-located blower or hoods that include a built-in blower.

Eco-Foil™ Air Foil reduces energy consumption by 7-10% compared to flat air foils while its aerodynamic curve allows air to sweep the work surface for maximum containment. Clean-Sweep™ openings pull inflow air from under the air foil forcing air into non-turbulent air streams.

- Glacier white powder-coated steel exterior is durable and corrosion-resistant
- One-piece molded fiberglass liner and pre-set baffle(s) with flame spread less than 25 per ASTM E84
- Tempered safety glass vertical-rising sash with powder-coated sash handle and Clean-Sweep™ openings

Work surface, supporting base and remote blower required (not included).

Cat. No.	Mfr. No.	Description (W x D x H)	Qty.
100400000	100400000	4 ft. hood with no service fixtures - remote blower required - 100-115 V, 50/60 Hz, 48 x 31.7 x 59 in.	1/ea
100600000	100600000	6 ft. hood with no service fixtures - remote blower required - 100-115 V, 50/60 Hz, 72 x 31.7 x 59 in.	1/ea



Protector® Storage Cabinets

LABCONCO - Base cabinets provide support for the full line of benchtop Labconco fume hoods and other enclosures and may be mixed or matched so that total width equals the width of the hood. Work surface is required (not included).

Cat. No.	Mfr. No.	Description	Qty.
Acid storage cabinet			
L5301-46	9901500	24 in. wide - single door, left hinge, manual close	1/ea
L5301-45	9901300	24 in. wide - single door, right hinge, manual close	1/ea
L5301-9	9901200	30 in. wide - dual doors, manual close	1/ea
L5301-7	9901100	36 in. wide - dual doors, manual close	1/ea
L5301-8	9901000	48 in. wide - dual doors, manual close	1/ea
Solvent storage cabinet			
L5301-48	9902400	24 in. wide - single door, left hinge, manual close	1/ea
L5301-47	9902300	24 in. wide - single door, right hinge, manual close	1/ea
L5301-50	9903400	24 in. wide - single door, left hinge, self-closing	1/ea
L5301-49	9903300	24 in. wide - single door, right hinge, self-closing	1/ea
L5301-6	9902200	30 in. wide - dual doors, manual close	1/ea
L5301-51	9903200	30 in. wide - dual doors, self-closing	1/ea
L5301-4	9902100	36 in. wide - dual doors, manual close	1/ea
L5301-52	9903100	36 in. wide - dual doors, self-closing	1/ea
L5301-5	9902000	48 in. wide - dual doors, manual close	1/ea
L5301-53	9903000	48 in. wide - dual doors, self-closing	1/ea
Standard storage cabinet			
L5301-42	9900600	24 in. wide - single door, left hinge, manual close	1/ea
L5301-41	9900300	24 in. wide - single door, right hinge, manual close	1/ea
L5301-3	9900200	30 in. wide - dual doors, manual close	1/ea
L5301-1	9900100	36 in. wide - dual doors, manual close	1/ea
L5301-2	9900000	48 in. wide - dual doors, manual close	1/ea

Safety Cabinets and Fume Hoods

Labconco



Protector® Work Stations

LABCONCO - Protector® Work Stations are specifically designed for the needs of pathologists and histotechnologists. These enclosures have a front air foil and rear baffle to direct the inflow air across the work area and away from the operator. Protector® Work Stations have a low profile so they fit easily under standard upper cabinets.

Protector® Work Stations are available with or without a built-in blower. If there is no feasible way to vent to the outside, models with a built-in blower are available that use specially-treated carbon filters. These filter packs keep low level concentrations of toluene, xylene, formalin, formaldehyde and other solvents below their OSHA-recommended, time-weighted averages, restoring clean air to the laboratory. Filters are sold separately.

- Powder-coated aluminum frame and steel rear plenum
- ¼ in. thick tempered safety glass front sash and sides
- 8 in. high sash opening
- Ergonomic 20° angled and hinged sash with wiping seals and spring-loaded latch that pivots upward and locks to a 19 in. height
- Fluorescent lighting

Work surface and supporting base required (not included).

Cat. No.	Mfr. No.	Description	Qty.
L3930-000	3930000	Work station with built-in blower - 115 V, 60 Hz	1/ea
L3930-001	3930001	Work station for use with remote blower (required, not included) - 115 V, 60 Hz	1/ea



Purifier HEPA-Filtered Enclosure with Airflow Monitor

LABCONCO - Purifier HEPA Filtered Enclosures protect the user from hazardous chemical powders, dust, and allergens in diverse applications ranging from screening suspicious mail to blending dry chemicals. Exclusive features include ergonomic air foil with aerodynamic Clean-Sweep™ airflow openings; upper dilution air supply; zone-perforated rear baffle; side-entry air foils; and upper containment sash foil. Other features include 99.99% efficient exhaust HEPA filter; variable speed built-in blower with vibration-isolated impeller and solid state control rated for 2 amps; intrinsically-safe, negative pressure design; Minihelic pressure gauge; low discharge volume and quiet operation. Powder-coated aluminum and steel construction; fluorescent lamp; switches for blower and light. Tempered safety glass ¼ in. thick, front sash and sides; 9.4 in. high sash opening; ergonomic 10° angled and hinged sash that pivots upward, locks to a loading height of 20 in. and has side wiping seals to contain contaminants. Two utility ports; particulate containment tested; and one-year warranty on parts and labor.

Optional Guardian Airflow Monitor continuously monitors airflow and has two LED lights to indicate when airflow is within or outside set point range. The green LED glows when airflow is within set point range. The red LED glows and an audible alarm sounds when airflow is outside set point range.

Work surface and supporting base required (not included).

Cat. No.	Mfr. No.	Description	Qty.
L5279-47	3980302	3 ft. HEPA-filtered - 115 V, 50/60 Hz	1/ea
L5279-49	3980402	4 ft. HEPA-filtered - 115 V, 50/60 Hz	1/ea

Purifier® Horizontal Clean Benches

LABCONCO - Purifier® Horizontal Clean Benches direct HEPA-filtered air horizontally over the work area to provide ISO Class 5 conditions and protect your work from particulate contamination. Applications for clean benches include plant tissue culture, media plate preparation, electronics inspection, medical device assembly and nonhazardous drug preparation. Because they do not provide protection to the user, they should not be used in conjunction with biohazardous material, toxins or radionuclides. Optional 254 nm UV light with screen for secondary decontamination while the bench is not in use. Glacier white powder-coated steel exterior. ¼ in. thick tempered safety glass side panels with utility ports and integrated Type 304 brushed stainless steel work surface. Includes differential pressure gauge that displays the pressure across the HEPA filter. Purifier Horizontal Clean Benches are available in 3, 4, 5, 6 and 8 ft. widths. Supporting base is required (not included).

Cat. No.	Mfr. No.	Description	Qty.
3888400	3888400	4 ft. horizontal bench with 21 in. interior depth - 115 V, 60 Hz	1/ea
3888420	3888420	4 ft. horizontal bench with 21 in. interior depth and UV light - 115 V, 60 Hz	1/ea



Safety Cabinets and Fume Hoods

Labconco

Purifier® Non-Ventilated PCR Enclosure

LABCONCO - Purifier® Non-Ventilated PCR Enclosures provide an enclosed non-ventilated work space for conducting polymerase chain reaction procedures. These enclosures include a UV light with timer so that interior surfaces may be decontaminated and trace DNA denatured during periods of non-use. The user may select from eight time settings. The UV light automatically shuts off when time expires, signaling the enclosure is ready for the next experiment. Because these enclosures do not provide protection to the user; they should not be used in conjunction with biohazardous material, toxins or radionuclides.

- UV-resistant, glacier white and gray, powder-coated aluminum and steel construction
- UV-opaque and resistant, ¼ in. thick tempered safety glass sash and sides
- 7.8 in. high sash opening
- Ergonomic 20° angled and hinged sash that pivots upward, locks to a loading height of 20 in. and has wiping seals to reduce cross contamination
- Protection panel with UV light interlock to close the sash opening
- Fluorescent lamp
- Variable digital timer for UV exposure with eight settings in minutes of 5, 10, 15, 30, 60, 120, 240 and continuous

Work surface and supporting base required (not included).



Cat. No.	Mfr. No.	Description	Qty.
L3952-400	3952400	PCR enclosure - 115 V, 60 Hz, 10 A	1/ea

Purifier® Class I Safety Enclosure

LABCONCO - Purifier® Class I Safety Enclosures protect the user from agents that require Biosafety Level 1, 2 or 3 containment but no product protection.

- Ergonomic air foil with aerodynamic Clean-Sweep™ airflow openings; upper dilution air supply; zone-perforated rear baffle; side-entry air foils; and upper containment sash foil.
- 99.99% efficient exhaust HEPA filter
- Variable speed built-in blower with vibration-isolated impeller and solid-state control rated for 5 amps
- Powder-coated aluminum and steel construction
- Fluorescent and 254 nm UV lamps
- UV protection panel interlocked with UV lamp
- Variable digital timer for UV exposure with 8 settings in minutes of 5, 10, 15, 30, 60, 120 and 240
- ¼ in. thick tempered safety glass front sash and sides
- 9.4 in. high sash opening
- Ergonomic 10° angled and hinged sash that pivots upward, locks to a loading height of 20 in. and has side wiping seals to contain contaminants



Optional Guardian Airflow Monitor continuously monitors airflow and has two LED lights to indicate when airflow is within or outside set point range. The green LED glows when airflow is within set point range. The red LED glows and an audible alarm sounds when airflow is outside set point range.

Work surface and supporting base are required (not included).

Cat. No.	Mfr. No.	Description	Qty.
F20002	3980201	2 ft. safety enclosure - 115 V, 50/60 Hz	1/ea
F20003	3980203	2 ft. safety enclosure with airflow monitor - 115 V, 50/60 Hz	1/ea
F30003	3980303	3 ft. safety enclosure with airflow monitor - 115 V, 50/60 Hz	1/ea

Safety Cabinets and Fume Hoods

Labconco

Purifier® Logic®+ Class II A2 Biosafety Cabinets

LABCONCO - Purifier® Logic®+ Class II A2 Biosafety Cabinets provide personnel, product and environmental protection from hazardous particulates such as agents that require Biosafety Level 1, 2 or 3 containment. All models are NSF-Listed. These biological safety cabinets are designed to discharge HEPA-filtered exhaust air directly into the laboratory, or into an exhaust system through the optional canopy connection. When canopy-connected, the biosafety cabinets may be used for applications involving minute quantities of volatile toxic chemicals and tracer amounts of radionuclides as an adjunct to microbiological research.

- Constant Airflow Profile™ (CAP) technology airflow monitoring system
- Smart-Start™ System that allows the user to program start up and shut down operations
- LCD information center with "Filter Life Remaining" bar graph, status line for alarm and alerts when filter life diminishes to 20% and 0%
- Fully-closing, clear ¼ in. tempered safety glass sash
- Supply and exhaust 99.99% efficient HEPA filters. Contact Labconco for optional 99.999% efficient ULPA filters.
- Leak-tight stainless steel interior
- Interior-mounted, line-of-sight, full color LCD information center with easy-to-understand MyLogic™ OS
- 10° angled sash with counterbalanced, anti-racking mechanism for ease of lifting
- ADA-compliant touchpad for manual activation of blower, light(s), timer, electrical receptacles, audible alarm mute and menu selection
- Approximately 70% air recirculation

Base stand required (included on select models).



Cat No.	Mfr. No.	Description	Qty.
3 ft. model			
302380001	302380001	8 in. sash opening - 115 V	1/ea
302380101	302380101	8 in. sash opening - base stand included - 115 V	1/ea
302381001	302381001	8 in. sash opening - UV, service fixture, Vacu-Pass Portal - 115 V	1/ea
302381101	302381101	8 in. sash opening - UV, service fixture, Vacu-Pass Portal - base stand included - 115 V	1/ea
302310001	302310001	10 in. sash opening - 115 V	1/ea
302310101	302310101	10 in. sash opening - base stand included - 115 V	1/ea
302311001	302311001	10 in. sash opening - UV, service fixture, Vacu-Pass Portal - 115 V	1/ea
302311101	302311101	10 in. sash opening - UV, service fixture, Vacu-Pass Portal - base stand included - 115 V	1/ea
4 ft. model			
302480001	302480001	8 in. sash opening - 115 V	1/ea
302480101	302480101	8 in. sash opening - base stand included - 115 V	1/ea
302481001	302481001	8 in. sash opening - UV, service fixture, Vacu-Pass Portal - 115 V	1/ea
302481101	302481101	8 in. sash opening - UV, service fixture, Vacu-Pass Portal - base stand included - 115 V	1/ea
302410001	302410001	10 in. sash opening - 115 V	1/ea
302410101	302410101	10 in. sash opening - base stand included - 115 V	1/ea
302411001	302411001	10 in. sash opening - UV, service fixtures, Vacu-Pass Portal - 115 V	1/ea
302411101	302411101	10 in. sash opening - UV, service fixture, Vacu-Pass Portal - base stand included - 115 V	1/ea
5 ft. model			
302580001	302580001	8 in. sash opening - 115 V	1/ea
302580101	302580101	8 in. sash opening - base stand included - 115 V	1/ea
302581001	302581001	8 in. sash opening - UV, service fixture, Vacu-Pass Portal - 115 V	1/ea
302581101	302581101	8 in. sash opening - UV, service fixture, Vacu-Pass Portal - base stand included - 115 V	1/ea
302510001	302510001	10 in. sash opening - 115 V	1/ea
302510101	302510101	10 in. sash opening - base stand included - 115 V	1/ea
302511001	302511001	10 in. sash opening - UV, service fixtures, Vacu-Pass Portal - 115 V	1/ea
302511101	302511101	10 in. sash opening - UV, service fixture, Vacu-Pass Portal - base stand included - 115 V	1/ea
6 ft. model			
302680001	302680001	8 in. sash opening - 115 V	1/ea
302680101	302680101	8 in. sash opening - base stand included - 115 V	1/ea
302681001	302681001	8 in. sash opening - UV, service fixture, Vacu-Pass Portal - 115 V	1/ea
302681101	302681101	8 in. sash opening - UV, service fixture, Vacu-Pass Portal - base stand included - 115 V	1/ea
302610001	302610001	10 in. sash opening - 115 V	1/ea
302610101	302610101	10 in. sash opening - base stand included - 115 V	1/ea
302611001	302611001	10 in. sash opening - UV, service fixtures, Vacu-Pass Portal - 115 V	1/ea
302611101	302611101	10 in. sash opening - UV, service fixture, Vacu-Pass Portal - base stand included - 115 V	1/ea

Safety Cabinets and Fume Hoods

Labconco

Purifier® Logic®+ Class II B2 Biosafety Cabinets

LABCONCO - Purifier® Logic®+ Class II B2 Biosafety Cabinets provide personnel, product and environmental protection from hazardous particulates such as agents that require Biosafety Level 1, 2 or 3 containment. Other appropriate applications include work with antineoplastic drugs, genetic material, asbestos and additional substances that generate hazardous airborne particulates. All models are NSF-Listed.

These biological safety cabinets are designed to be hard ducted to the outside. During operation, room air is drawn into the top of the cabinet and through a supply HEPA filter. This filtered air flows downward through the work area. All of the contaminated air passes through the exhaust HEPA filter. A dedicated exhaust system and remote blower discharge 100% of the filtered exhaust air from the laboratory. Since none of the air is recirculated, these biohazard cabinets may be used for work with agents treated with volatile toxic chemicals and radionuclides.

- Constant Airflow Profile™ (CAP) Technology airflow monitoring system
- Smart-Start™ System that allows the user to program start up and shut down operations
- LCD information center with "Filter Life Remaining" bar graph, status line for alarm and alerts when filter life diminishes to 20% and 0%
- Fully-closing, clear ¼ in. tempered safety glass sash with 8 in. (20 cm) working height opening
- Supply and exhaust 99.99% efficient HEPA filters. Contact Labconco for optional 99.999% efficient ULPA filters.
- Leak-tight stainless steel interior
- Interior-mounted, line-of-sight, full color LCD information center with easy-to-understand MyLogic™ OS
- 10° angled sash with counterbalanced, anti-racking mechanism for ease of lifting
- ADA-compliant touchpad for manual activation of blower, light(s), timer, electrical receptacles, audible alarm mute and menu selection
- 10 in. diameter exhaust outlet with air-tight damper

Base stand required (included on select models).



Cat. No.	Mfr. No.	Description	Qty.
4 ft. model			
303480001	303480001	8 in. sash opening - 115 V	1/ea
303480101	303480101	8 in. sash opening - base stand included - 115 V	1/ea
303481001	303481001	8 in. sash opening - UV light, service fixtures, Vacu-Pass portal - 115 V	1/ea
303481101	303481101	8 in. sash opening - UV light, service fixtures, Vacu-Pass portal - base stand included - 115 V	1/ea
6 ft. model			
303680001	303680001	8 in. sash opening - 115 V	1/ea
303680101	303680101	8 in. sash opening - base stand included - 115 V	1/ea
303681001	303681001	8 in. sash opening - UV light, service fixtures, Vacu-Pass portal - 115 V	1/ea
303681101	303681101	8 in. sash opening - UV light, service fixtures, Vacu-Pass portal - base stand included - 115 V	1/ea

Safety Cabinets and Fume Hoods

Labconco

Purifier® Axiom® Class II C1 Biosafety Cabinets

LABCONCO - The Purifier® Axiom® Class II C1 Biosafety Cabinet is the first that can be used in a recirculating Type A mode for standard microbiological work, or can be connected to an exhaust system to function in Type B mode for handling hazardous chemical vapors or radionuclides. Because of the efficient, well-defined airflow pattern over its work surface, the Axiom is safer and easier to operate than traditional biosafety cabinets.

The patent pending design of the Chem-Zone™† maximizes chemical safety. Other features that make the Axiom safe and easy to operate include its ergonomic Inclination™ Technology, the intuitive MyLogic™ Operating System and Active Protection Protocol†.

The Axiom provides protection for personnel, product and the laboratory environment by filtering hazardous particulates and aerosols, such as agents that require Biosafety Level 1, 2 or 3 containment, with the option of venting away hazardous fumes. Type C1 enclosures may also be used for a wide variety of applications that incorporate antineoplastic drugs, genetic material, carcinogens, allergens, or other airborne hazards. NSF-listed.

Base stand required (included on select models).

† Patent pending



Cat. No.	Mfr. No.	Description	Qty.
4 ft. model			
304480000	304480000	8 in. sash opening - 115 V	1/ea
304480100	304480100	8 in. sash opening - base stand included - 115 V	1/ea
304481000	304481000	8 in. sash opening - UV light, service fixture, Vacu-Pass portal - 115 V	1/ea
304481100	304481100	8 in. sash opening - UV light, service fixture, Vacu-Pass portal - base stand included - 115 V	1/ea
304410000	304410000	10 in. sash opening - 115 V	1/ea
304410100	304410100	10 in. sash opening - base stand included - 115 V	1/ea
304411000	304411000	10 in. sash opening - UV light, service fixture, Vacu-Pass portal - 115 V	1/ea
304411100	304411100	10 in. sash opening - UV light, service fixture, Vacu-Pass portal - base stand included - 115 V	1/ea
6 ft. model			
304680000	304680000	8 in. sash opening - 115 V	1/ea
304680100	304680100	8 in. sash opening - base stand included - 115 V	1/ea
304681000	304681000	8 in. sash opening - UV light, service fixture, Vacu-Pass portal - 115 V	1/ea
304681100	304681100	8 in. sash opening - UV light, service fixture, Vacu-Pass portal - base stand included - 115 V	1/ea
6 ft. model - 10 in. sash opening			
304610000	304610000	10 in. sash opening - 115 V	1/ea
304610100	304610100	10 in. sash opening - base stand included - 115 V	1/ea
304611000	304611000	10 in. sash opening - UV light, service fixture, Vacu-Pass portal - 115 V	1/ea
304611100	304611100	10 in. sash opening - UV light, service fixture, Vacu-Pass portal - base stand included - 115 V	1/ea

Safety Cabinets and Fume Hoods

Labconco Accessories

Telescoping Base Stands for Labconco Fume Hoods, Safety Cabinets and Enclosures

LABCONCO – Labconco offers multiple styles of base stands designed to support Labconco fume hoods, safety cabinets and enclosures.

Base stands for use with Purifier Class II Biosafety Cabinets are non-welded and have telescoping legs so they may be adjusted to 8 height positions in 1 in. increments to provide a 30 in. to 37 in. working height. They are NSF-approved, ADA-compliant and support loads up to 1,000 lbs. The frame is durable 1.75 in. tubular, glacier white powder-coated steel with a back panel support. A 9 in. shelf and four fixed leveling feet are provided.

Base stands for use with Purifier Enclosures, Protector Hoods, Paramount Enclosures and XPert and RXPert Systems, Stations and Enclosures are welded and have telescoping legs adjustable in 1 in. increments from 27½ to 34½ in. They are ADA-compliant; models with casters support loads up to 1,000 lbs. and models with fixed feet support loads up to 4,000 lbs. The frame is durable 1.75 in. tubular, glacier white powder-coated steel. Models 3 ft. and wider have rear crossbar supports. Stands are available with fixed feet for stationary use or with 5 in. diameter toe-locking, non-marking polyurethane casters for mobility.



Cat. No.	Mfr. No.	Description	Qty.
Base stands with fixed feet for use with			
3401003	3401003	3 ft. stand for Purifier Cell Logic Biosafety Cabinets, Logic and Logic+ Biosafety Cabinets, Axiom Biosafety Cabinets - 38.5 x 29 in.	1/ea
3888700	3888700	4 ft. stand for Purifier Horizontal Clean Benches - 47 x 29 in.	1/ea
L5600-3	3746702	4 ft. stand for Basic Hoods, Paramount Ductless Enclosures, Protector Hoods, and Work Stations, XVS Ventilation Stations, Purifier Class I, Filtered PCR, HEPA Filtered, Vertical Clean Benches, XPert Balance, Filtered Balance Stations, Nano Enclosures Xpert and RXPert Filtered Balance Systems - 48 x 29 in.	1/ea
3401004	3401004	4 ft. stand for PuriCare Procedure Stations, Purifier Cell Logic Biosafety Cabinets, Logic and Logic+ Biosafety Cabinets, Axiom Biosafety Cabinets - 50.5 x 29 in.	1/ea
3401006	3401006	6 ft. stand for PuriCare Procedure Stations, Purifier Cell Logic Biosafety Cabinets, Logic and Logic+ Biosafety Cabinets, Axiom Biosafety Cabinets - 74.5 x 29 in.	1/ea
Base stands with 5 in. diameter toe-locking casters for use with			
L3746-710	3746710	2 ft. stand for Purifier Vertical Clean Bench, Filtered PCR Enclosure, Class I Enclosure, HEPA-Filtered Enclosure, Paramount Ductless Enclosure - 24 x 29 in.	1/ea
L5600-25	3746711	3 ft. stand for Paramount Ductless Enclosures, Protector XVS Ventilation Stations, Purifier Filtered PCR, HEPA Filtered, Vertical Clean Benches, XPert Balance and Nano Enclosures, Xpert and RXPert Filtered Balance Systems - 36 x 29 in.	1/ea

6 Ft. Electric Hydraulic Lift Base Stand

LABCONCO - Electric Hydraulic Lift Base Stands offer the flexibility to be adjusted at any time. Height is infinitely adjustable from 25.5 to 33.5 in. They allow you to position the stand and the enclosure it supports to accommodate persons of different heights and wheelchair-bound users. They meet the NSF standard for stability and construction, are ADA-compliant and support loads up to 1,000 lbs. Constructed of durable 1.75 in. tubular, glacier white powder-coated steel frame with rear crossbar supports. Sub-frame has 2 x 3 in. rectangular tubing. Include four powder-coated, die-cast feet with levelers. Electric models include a front-accessible up/down switch. Manual models include a front-accessible hand crank. Shipped fully assembled.

For use with **PuriCare** Procedure Stations, **Purifier** Axiom Biosafety Cabinets, Logic+ Biosafety Cabinets and Cell Logic+ Biosafety Cabinets.



Cat. No.	Mfr. No.	Description	Qty.
L5600-35	3780102	Hydraulic Lift Base Stand - 115 V, 60 Hz	1/ea

Safety Cabinets and Fume Hoods

Labconco Accessories



4 ft. Black Solid Epoxy Work Surface

LABCONCO - Work surface may be used to support a variety of Labconco enclosures including, **Purifier** Non-ventilated PCR Enclosures, **Protector** XVS Ventilation Stations and Work Stations, **Xpert** Balance Enclosures. Dimensions: (W x D x H) 48 x 26.7 x 1 in.

Cat. No.	Mfr. No.	Description	Qty.
F1307-3	3908402	4 ft. Black Solid Epoxy Work Surface	1/ea



Stainless Steel Work Surfaces

LABCONCO - Stainless Steel Work Surfaces are available in 2, 3 and 4 ft. widths. They may be used to support a variety of Labconco enclosures including Purifier Filtered PCR Enclosures, Purifier Vertical Clean Benches, Xpert Filtered Balance Stations, and Xpert & RXpert Filtered Balance Systems.

Cat. No.	Mfr. No.	Description (W x D x H)	Qty.
3970602	3970602	2 ft. work surface - 24 x 29 x 0.8 in.	1/ea
3970603	3970603	3 ft. work surface - 36 x 29 x 0.8 in.	1/ea
3970604	3970604	4 ft. work surface - 48 x 29 x 0.8 in.	1/ea



4 Ft. Dished Epoxy Work Surface with Sink

LABCONCO - Designed specifically for the Protector Work Station, this unique molded solid epoxy work surface accommodates standard dissecting boards and is dished to contain spills. It resists corrosion and does not stain or absorb liquids. Includes a 10 x 14 x 6 in. deep molded epoxy sink. Fixtures include a corrosion-resistant chrome-plated gooseneck faucet with vacuum breaker, two chrome-plated faucet controls, and a spray nozzle with hose. Sink requires a 1.5 in. drain connection.

Cat. No.	Mfr. No.	Description	Qty.
L6942-003	6942003	Work Surface with Sink	1/ea



Solid Epoxy Dished Work Surfaces

LABCONCO - Solid Epoxy Dished Work Surfaces are available in 2, 3, 4, 5 and 6 ft. widths. These black chemical-resistant work surfaces are contoured to fit Labconco enclosures and to contain spills. They may be used to support a variety of Labconco enclosures including **Paramount** Ductless Enclosures, **Purifier** Class I, HEPA Filtered, Filtered PCR, Vertical Clean Benches, **Protector** Work Stations, **Xpert** Filtered Balance Systems and Stations and **RXPert** Filtered Balance Systems.

Cat. No.	Mfr. No.	Description (W x D x H)	Qty.
L5279-36	3909900	2 ft. work surface - 24 x 29 x 1 in.	1/ea
L5279-37	3909901	3 ft. work surface - 36 x 29 x 1 in.	1/ea
L5279-38	3909902	4 ft. work surface - 48 x 29 x 1 in.	1/ea

SpillStopper Work Surfaces for Protector Pass-Through Laboratory Hoods

LABCONCO - SpillStopper Work Surfaces are molded from a special formulation of corrosion-resistant epoxy resins. They are dished and contoured to conform to the interior liner of Protector Laboratory Hoods. Pre-drilled holes for venting and plumbing pass-throughs are provided.



Some include 6 x 3 in. cupsink cutouts. Cupsink is sold separately.

For use with Protector® Pass-Through Laboratory Hoods.

Cat. No.	Mfr. No.	Description	Qty.
4 ft. work surface			
9570410	9570410	Left rear cupsink cutout	1/ea
9570420	9570420	Left side cupsink cutout	1/ea
9570411	9570411	Left and right rear cupsink cutout	1/ea
9570412	9570412	Left rear and right side cupsink cutout	1/ea
9570421	9570421	Left side and right rear cupsink cutout	1/ea
9570401	9570401	Right rear cupsink cutout	1/ea
9570402	9570402	Right side cupsink cutout	1/ea
5 ft. work surface			
9570500	9570500	No cutout	1/ea
9570510	9570510	Left rear cupsink cutout	1/ea
9570520	9570520	Left side cupsink cutout	1/ea
9570511	9570511	Left and right rear cupsink cutout	1/ea
9570522	9570522	Left and right side cupsink cutout	1/ea
9570512	9570512	Left rear and right side cupsink cutout	1/ea
9570521	9570521	Left side and right rear cupsink cutout	1/ea
9570501	9570501	Right rear cupsink cutout	1/ea
9570502	9570502	Right side cupsink cutout	1/ea
6 ft. work surface			
9570600	9570600	No cutout	1/ea
9570610	9570610	Left rear cupsink cutout	1/ea
9570620	9570620	Left side cupsink cutout	1/ea
9570611	9570611	Left and right rear cupsink cutout	1/ea
9570622	9570622	Left and right side cupsink cutout	1/ea
9570612	9570612	Left rear and right side cupsink cutout	1/ea
9570621	9570621	Left side and right rear cupsink cutout	1/ea
9570601	9570601	Right rear cupsink cutout	1/ea
9570602	9570602	Right side cupsink cutout	1/ea

Safety Cabinets and Fume Hoods

Labconco Accessories



SpillStopper Work Surfaces for Protector Laboratory Hoods

LABCONCO - SpillStopper Work Surfaces are molded from a special formulation of corrosion-resistant epoxy resins. They are dished and contoured to conform to the interior liner of Protector Laboratory Hoods. The front edge has a large radius to aerodynamically direct airflow into the fume hood. Pre-drilled holes for venting and plumbing pass-throughs are provided. Some include 6 x 3 in. cupsink cutouts. Cupsink is sold separately.

For use with Protector® Premier, XStream, XL, Echo and Airo Laboratory Hoods with 31.7 in. depth.

Contact your Cardinal Health representative to order SpillStopper Work Surfaces for 37.7 in. depth hoods.

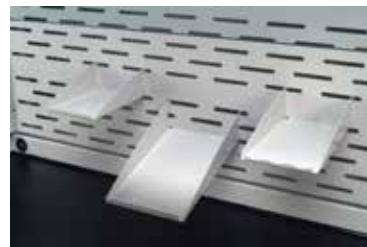
Cat. No.	Mfr. No.	Description	Qty.
3 ft. work surface - use with Premier, XL and Airo with 31.7 in. depth			
9500300	9500300	No cupsink cutout	1/ea
4 ft. work surface - use with Premier, XL and Airo with 31.7 in. depth			
9500400	9500400	No cupsink cutout	1/ea
9500410	9500410	Left rear cupsink cutout	1/ea
9500420	9500420	Left side cupsink cutout	1/ea
9500411	9500411	Left and right rear cupsink cutouts	1/ea
9500422	9500422	Left and right side cupsink cutouts	1/ea
9500401	9500401	Right rear cupsink cutout	1/ea
9500402	9500402	Right side cupsink cutout	1/ea
5 ft. work surface - for Premier and XL with 31.7 in. depth			
9500500	9500500	No cupsink cutout	1/ea
9500510	9500510	Left rear cupsink cutout	1/ea
9500520	9500520	Left side cupsink cutout	1/ea
9500501	9500501	Right rear cupsink cutout	1/ea
9500502	9500502	Right side cupsink cutout	1/ea
9500511	9500511	Left and right rear cupsink cutouts	1/ea
9500522	9500522	Left rear and right side cupsink cutouts	1/ea
6 ft. work surface - for Premier and XL with 31.7 in. depth			
9500600	9500600	No cupsink cutout	1/ea
9500610	9500610	Left rear cupsink cutout	1/ea
9500620	9500620	Left side cupsink cutout	1/ea
9500601	9500601	Right rear cupsink cutout	1/ea
9500602	9500602	Right side cupsink cutout	1/ea
9500611	9500611	Left and right rear cupsink cutouts	1/ea
9500622	9500622	Left and right side cupsink cutouts	1/ea



Laptop Computer Arms for SoLo and Telescoping Base Stand

LABCONCO - Securely supports a laptop computer within easy view of an operator at the Purifier Logic+ Biosafety Cabinet, Purifier Cell Logic+ Biosafety Cabinet, Purifier Axiom Biosafety Cabinet or PuriCare Procedure Station. Articulating arm raises, lowers and pivots to a steady position. Includes powder-coated steel arm and support work surface with cloth loop fasteners and mounting hardware. Not for use with other hydraulic lift base stands. Installation is required.

Cat. No.	Mfr. No.	Description	Qty.
P3869200	3869200	Laptop arm for SoLo hydraulic base stand	1/ea
P3869300	3869300	Laptop arm for telescoping base stand	1/ea



Utility Shelves

LABCONCO - Three powder-coated steel shelves attach to the rear baffle perforations of Purifier Class I and HEPA Filtered Enclosures and XPert Enclosures, Systems and Stations to hold a printer, utensils or other miscellaneous supplies. The utensil shelf has a scalloped front edge to support spatulas, brushes and other items.

Cat. No.	Mfr. No.	Description	Qty.
F1307-14	3925000	Utility shelf kit with 3 shelves	1/ea

Safety Cabinets and Fume Hoods

Thermo Fisher Scientific

Thermo Scientific™ 1300 Series A2 Biological Safety Cabinet and Packages

THERMO FISHER SCIENTIFIC - Perform daily applications safely and efficiently with simple-to-order Thermo Scientific™ 1300 Series Class II, Type A2 Biological Safety Cabinet Packages, which includes cabinet; manual adjustable height stand; factory installed UV light and one set of armrests. These safety cabinets deliver exceptional design and technology advancements such as superior protection with proprietary airflow design, exceptional ergonomics for a safe and comfortable environment, and outstanding energy efficiency for operational cost savings. 120 V, 50/60 Hz.

- Containment—Thermo Scientific™ SmartFlow™ airflow design automatically balance the cabinet inflow and downflow air velocities in real time
- Comfort—ergonomically designed 10° sloped front window is designed to reduce user fatigue
- Convenience—intuitive control panel for at-a-glance monitoring of safety and performance data
- Energy efficiency—dual DC motors deliver operational cost savings and low heat emissions for lower cost of ownership



Cat. No.	Mfr. No.	Description	Qty.
3 ft. biological safety cabinet			
1340	1340	Coated interior cabinet walls - 8 in. window	1/ea
KL1321	1321	Coated interior cabinet walls - 10 in. window	1/ea
KL1342	1342	Stainless steel interior cabinet walls - 8 in. window	1/ea
1323	1323	Stainless steel interior cabinet walls - 10 in. window	1/ea
4 ft. biological safety cabinet			
KL1395	1395	Coated interior cabinet walls - 8 in. window	1/ea
1385	1385	Coated interior cabinet walls - 10 in. window	1/ea
KL1335	1335	Stainless steel interior cabinet walls - 8 in. window	1/ea
KL1375	1375	Stainless steel interior cabinet walls - 10 in. window	1/ea
5 ft. safety cabinet			
1351	1351	Coated interior cabinet walls - 8 in. window	1/ea
KL1369	1369	Coated interior cabinet walls - 10 in. window	1/ea
KL1353	1353	Stainless steel interior cabinet walls - 8 in. window	1/ea
1371	1371	Stainless steel interior cabinet walls - 10 in. window	1/ea
6 ft. safety cabinet			
1397	1397	Coated interior cabinet walls - 8 in. window	1/ea
KL1387	1387	Coated interior cabinet walls - 10 in. window	1/ea
KL1337	1337	Stainless steel interior cabinet walls - 8 in. window	1/ea
KL1377	1377	Stainless steel interior cabinet walls - 10 in. window	1/ea



Analytical Balances

CARDINAL HEALTH - Analytical Balances provide accuracy and precision for the most demanding research applications. Two capacity options are available. Each incorporates a highly precise, electromagnetic sensor to deliver accuracy and readability to 0.0001 g (0.1 mg). Widely spaced, the feet lend stability and are adjustable to level the unit. Tare keys are conveniently located on both sides of the control panel for easy access by both right- and left-handed users. These balances incorporate in-lab calibration firmware and are provided with a stainless steel calibration weight. The glass draft shield isolates the weighing area from the outside environment and features sliding doors on the right, left and top.

Specifications:

Pan size (round).....	Stainless steel, 3.5 in. (9 cm)
Capacity	CHW31-120 - 120 g, CHW31-210 - 210 g
Readability	0.0001 g
Draft shield	Yes, glass, 3-door
Weighing units.....	g, oz., lb., ct
Calibration.....	External
Display	Backlit LCD
Dimensions (W x D x H)	Exterior 12.5 x 18.5 x 11 in. (32 x 47 x 28 cm)

Cat. No.	Description	Qty.
CHW31-120	120 g capacity - 0.0001 g readability	1/ea
CHW31-210	210 g capacity - 0.0001 g readability	1/ea



Compact Balances

CARDINAL HEALTH - These economical, compact balances are ideal for a wide range of general weighing applications. Six models cover a weighing range up to 10,000 g, with a readability of 0.01 g or 0.1 g. With enhanced shock resistance and overload protection, the compact series of balances is ideal for use in a variety of environments.

Compact Balances quickly and accurately display sample measurements on a large, backlit LCD control panel. Utilizing a highly precise, gold-plated ceramic capacitance sensor. Multiple program options allow for weighing, count (piece) mode and percent deviation. In-lab calibration is easy and reliable with the incorporated firmware.

Specifications:

CHW33-120, CHW33-300, CHW33-500

Readability.....	0.01 g
Pan size (round).....	4.5 in. (11.5 cm)
Draft shield	Yes, plastic ring

CHW33-1200

Readability.....	0.1 g
Pan size (round).....	6.3 in. (16 cm)
Draft shield	No

CHW33-5K, CHW33-10K

Readability.....	0.1 g
Pan size (round).....	7 in. (18 cm)
Draft shield	No

Weighing units.....	g, oz., ct
Calibration.....	External
Display	Backlit LCD
Dimensions (W x D x H)	Exterior 7.5 x 11 x 3.1 in. (18.8 x 28 x 8 cm)

Cat. No.	Description	Qty.
CHW33-120	120 g capacity - 0.01 g readability	1/ea
CHW33-300	300 g capacity - 0.01 g readability	1/ea
CHW33-500	500 g capacity - 0.01 g readability	1/ea
CHW33-1200	1,200 g capacity - 0.1 g readability	1/ea
CHW33-5K	5,000 g capacity - 0.1 g readability	1/ea
CHW33-10K	10,000 g capacity - 0.1 g readability	1/ea

Weighing

Balances – Electronic



Precision Balances

CARDINAL HEALTH - The precision series of balances is designed for true research grade applications. With a higher level of precision and readability, they are useful for any laboratory application that does not require a dedicated analytical balance with sub-milligram readability. Advanced software helps to ensure error-free weighing in various applications, including weight accumulation, count weighing, percent deviation and inspection mode.

Precision Balances quickly and accurately display sample measurements on a large, backlit LCD control panel. Utilizing a highly precise, gold-plated ceramic capacitance sensor, these balances provide reliable measurements to 0.001 g. Multiple program options allow for weighing, count (piece) mode and percent deviation. In-lab calibration is easy and reliable with the incorporated firmware.

Specifications:

CHW32-120, CHW32-320, CHW32-500

Readability.....	0.001 g
Pan size (round)	4.5 in. (11.5 cm)
Draft shield	Yes, glass, 3-door
Dimensions (W x D x H)....	Exterior 8 x 13.75 x 12.25 in. (20.5 x 35 x 31 cm)

CHW32-1200, CHW32-3200, CHW32-5K

Readability.....	0.01 g
Pan size (round)	6.3 in. (16 cm)
Draft shield	No
Dimensions (W x D x H)....	Exterior 8 x 13.75 x 3.5 in. (20.5 x 35 x 9 cm)
Weighing units.....	g, oz., ct
Calibration.....	External
Display	Backlit LCD

Cat. No.	Description	Qty.
CHW32-120	120 g capacity - 0.001 g readability	1/ea
CHW32-320	320 g capacity - 0.001 g readability	1/ea
CHW32-500	500 g capacity - 0.001 g readability	1/ea
CHW32-1200	1,200 g capacity - 0.01 g readability	1/ea
CHW32-3200	3,200 g capacity - 0.01 g readability	1/ea
CHW32-5K	5,000 g capacity - 0.01 g readability	1/ea



Adventurer® Analytical Balances

OHAUS - The Adventurer® Analytical Balance incorporates all of the applications necessary for routine weighing and measurement activities. With a color touchscreen, GLP/GMP compliance capabilities, two USB ports, and much more.

Fast stabilization and reliable operation are enhanced by the AutoCal™ option to ensure solid weighing performance and accurate, repeatable results for standard laboratory applications. The wide viewing angle color touchscreen provides access to all of Adventurer's applications, while dual USB ports with GLP/GMP tracking capabilities assist in the monitoring and reporting of data. The two-piece, top-mounted draftshield doors reduce the footprint of the doors in the rear of the balance when open, and open wide on both sides in order to provide ample room to place samples.

Specifications:

Linearity	±0.2 mg
Readability	0.1 mg
Pan size.....	3.5 in. (90 mm)
Dimensions (H x L x W).....	13.39 x 13.93 x 9.05 in

Cat. No.	Mfr. No.	Description	Qty.
30100600	30100600	AX124 model - 120 g capacity	1/ea
30100601	30100601	AX124/E model - 120 g capacity, external calibration	1/ea
30100602	30100602	AX224 model - 220 g capacity	1/ea
30100603	30100603	AX224/E model - 220 g capacity, external calibration	1/ea
30100630	30100630	AX224N model - 220 g capacity, readability certified	1/ea
30100604	30100604	AX324 model - 320 g capacity	1/ea

Adventurer® Precision Balances

OHAUS - The Adventurer® Precision Balance incorporates all of the applications necessary for routine weighing and measurement activities. With a color touchscreen, GLP/GMP compliance capabilities, two USB ports, and much more.

Fast stabilization and reliable operation are enhanced by the AutoCal™ option to ensure solid weighing performance and accurate, repeatable results for standard laboratory applications. The wide viewing angle color touchscreen provides access to all of Adventurer's applications, while dual USB ports with GLP/GMP tracking capabilities assist in the monitoring and reporting of data. The 1 mg models have a two piece, top-mounted draftshield with doors that open wide, providing ample room for sample placement, while the 0.01g and 0.1 g models feature large weighing pans.

**Specifications:**

Linearity ±0.002 g

Dimensions (H x L x W) 13.39 x 13.93 x 9.05 in.

Cat. No.	Mfr. No.	Description	Qty.
Readability 1 mg – top- mounted draftshield with pan size 5.1 in.			
30100605	30100605	AX223 model - 220 g capacity	1/ea
30100606	30100606	AX223/E model - 220 g capacity, external calibration	1/ea
30100631	30100631	AX223N/E model - 220 g capacity, external calibration, readability certified 0.01 g	1/ea
30100607	30100607	AX423 model - 420 g capacity	1/ea
30100608	30100608	AX423/E model - 420 g capacity, external calibration	1/ea
30100632	30100632	AX423N model - 420 g capacity, readability certified 0.01 g	1/ea
30100633	30100633	AX423N/E model - 420 g capacity, external calibration, readability certified 0.01 g	1/ea
30100609	30100609	AX523 model - 520 g capacity	1/ea
30100610	30100610	AX523/E model - 520 g capacity, external calibration	1/ea
30100634	30100634	AX523N/E model - 520 g capacity, external calibration, readability certified 0.01 g	1/ea
Readability 0.01 g –pan size 7.7 x 6.9 in.			
30100635	30100635	AX622N/E model - 620 g capacity, external calibration, readability certified 0.1 g	1/ea
30100611	30100611	AX1502 model - 1,520 g capacity	1/ea
30100612	30100612	AX1502/E model - 1,520 g capacity, external calibration	1/ea
30100636	30100636	AX1502N/E model - 1,520 g capacity, external calibration, readability certified 0.1 g	1/ea
30100613	30100613	AX2202 model - 2,200 g capacity	1/ea
30100614	30100614	AX2202/E model - 2,200 g capacity, external calibration	1/ea
30100637	30100637	AX2202N/E model - 2,200 g capacity, external calibration, readability certified 0.1 g	1/ea
30100615	30100615	AX4202 model - 4,200 g capacity	1/ea
30100616	30100616	AX4202/E model - 4,200 g capacity, external calibration	1/ea
30122655	30122655	AX4202N/E model - 4,200 g capacity, external calibration, readability certified 0.1 g	1/ea
30100617	30100617	AX5202 model - 5,200 g capacity	1/ea
Readability 0.1 g –pan size 7.7 x 6.9 in.			
30122634	30122634	AX4201 model - 4,200 g capacity	1/ea
30122635	30122635	AX4201/E model - 4,200 g capacity, external calibration	1/ea
30100618	30100618	AX8201 model - 8,200 g capacity	1/ea
30100619	30100619	AX8201/E model - 8,200 g capacity, external calibration	1/ea
30100639	30100639	AX8201N/E model - 8,200 g capacity, external calibration, readability certified 1 g	1/ea

Weighing

Balances – Electronic



Explorer® Analytical Balances

OHAUS - The Explorer® Analytical Balance combine modern features and design elements to offer unmatched functionality in a line of high-performance balances. Modular design, metal base, ABS top housing, stainless steel pan, glass draft shield with top mounted side doors and flip/sliding top door. Illuminated up-front level indicator, integral weigh below hook, security bracket, calibration lock, four touchless sensors, full housing in-use cover. Selectable environmental filters, auto tare, user selectable span calibration points, software lockout and reset menu. User selectable communication settings and data print options. 5.7 in. (145 mm) full-color VGA graphic touchscreen display with user-controlled brightness. The base and display separate for maximum flexibility in any work area. Draftshield models isolate the weighing chamber to enhance stability and speed results while offering maximum accessibility through the flip-top and expansive side doors. Handsfree entry is available with optional automated side doors.

Specifications:

Linearity	± 0.0002 g
Readability	0.1 mg
Pan size	3.5 in. (90 mm)
Dimensions (H x L x W)	13.8 x 15.5 x 9.1 in. (350 x 393 x 230 mm)

Cat. No.	Mfr. No.	Description	Qty.
83021331	83021331	EX124 model - 120 g capacity	1/ea
30061976	30061976	EX124/AD model - 120 g capacity, auto door	1/ea
83021332	83021332	EX224 model - 220 g capacity	1/ea
30061977	30061977	EX224/AD model - 220 g capacity, auto door	1/ea
30061998	30061998	EX224N/AD model - 220 g capacity, auto door, readability (certified) 1 mg	1/ea
83021335	83021335	EX324 model - 320 g capacity	1/ea
30061978	30061978	EX324/AD model - 320 g capacity, auto door	1/ea
30061999	30061999	EX324N/AD model - 320 g capacity, auto door, readability (certified) 1 mg	1/ea



Explorer® Semi-Micro Balances

OHAUS - The Explorer® Semi-Micro Balance has capacities ranging from 52 g to 220 g and readabilities from 0.1 mg to 0.01 mg. Explorer's ultra-fast stabilization time (0.1 mg: ≤3 second, 0.01 mg: ≤8 second) and audible stability alert increases laboratory efficiency.

OHAUS' signature AutoCal™ internal calibration system provides routine maintenance by automatically calibrating the balance every time it senses a temperature change of 1.5°C or every 3 hours, whichever occurs first. To minimize weighing errors and ensure accurate measurements, AutoCal™ utilizes two internal weights to perform a linear calibration.

Explorer's features are designed to improve user experience and ensure the integrity of result. Color touchscreen display. Four programmable touchless sensors allow the operator to perform common functions and commands with a swipe of the hand. The automatic door on certain models allows the user to open the draftshield door with a wave of their left hand when their right hand is occupied with the sample.

Modular design in which the base and display can be separated to allow the balance to fit ideally on the lab bench. The built-in ionizer, included in Explorer automatic door models, generates bipolar ions continuously discharge electrodes to eliminate static electricity which can alter weighing results by as much as several milligrams. Pan size 3.14 in. (80 mm).

Cat. No.	Mfr. No.	Description	Qty.
30139510	30139510	EX125D model - 51 g/120 g capacity, 0.01 mg; 0.1 mg readability	1/ea
30139511	30139511	EX125 model - 120 g capacity, 0.01 mg readability	1/ea
30139512	30139512	EX225D model - 120 g/220 g capacity, 0.01 mg; 0.1 mg readability	1/ea
30139513	30139513	EX225D/AD model - 120 g/220 g capacity, 0.01 mg; 0.1 mg readability, auto door	1/ea
30139514	30139514	EX225/AD model - 220 g capacity, 0.01 mg readability, auto door	1/ea



Explorer® Precision Balances

OHAUS - The Explorer® Precision balances combine modern features and design elements to offer unmatched functionality in a line of high-performance balances. Modular design, metal base, ABS top housing, stainless steel pan, glass draftshield with top mounted side doors and flip/sliding top door (1 mg models only), illuminated up-front level indicator, integral weigh below hook, security bracket, calibration lock, four touchless sensors, full housing in-use cover. 5.7 in. (145 mm). Full-color VGA graphic touchscreen display with user-controlled brightness. Selectable environmental filters, auto tare, user selectable span calibration points, software lockout and reset menu, user selectable communication settings and data print options, user definable project and user IDs, auto standby, up to 14 operating languages.

Specifications:

Linearity ± 0.002 g
Pan size 5.1 in (130 mm)
Dimensions (H x L x W) 13.8 x 15.5 x 9.1 in. (350 x 393 x 230 mm)

Cat. No.	Mfr. No.	Description	Qty.
Pan size - 5 in. (130 mm) in diameter			
30061979	30061979	EX223/E model - 220 g capacity, 1 mg readability	1/ea
30061980	30061980	EX423/E model - 420 g capacity, 1 mg readability	1/ea

Pan size - 7.5 x 8 in. (190 x 200 mm)

Cat. No.	Mfr. No.	Description	Qty.
Pan size - 7.5 x 8 in. (190 x 200 mm)			
30061981	30061981	EX2202/E model - 2,200 g capacity, 0.01 g readability	1/ea
30061982	30061982	EX4202/E model - 4,200 g capacity, 0.01 g readability	1/ea
30061983	30061983	EX6202/E model - 6,200 g capacity, 0.01 g readability	1/ea
30061984	30061984	EX6202/E model - 6,200 g capacity, 0.1 g readability	1/ea



Explorer® Precision High Capacity Balances

OHAUS - Explorer® Precision High Capacity balances provide unmatched functionality in a line of high-performance, high-capacity balances. Modular design, IP54 metal base, die-cast top housing with stainless steel pan. Up-front level indicator, integral weigh below hook, calibration lock, two touchless sensors, full housing in-use cover. Selectable environmental filters, auto tare, user selectable span calibration points, software lockout and reset menu. User selectable communication settings and data print options. 5.7 in. (145 mm) full-color VGA graphic touchscreen display with user-controlled brightness.

Specifications:

Linearity 0.2 g
Pan size (L x W) 14.8 x 12.2 in. (377 x 311 mm)
Dimensions (H x L x W) 4.7 x 17.44 x 14.9 in. (120 x 443 x 377 mm)

Cat. No.	Mfr. No.	Description	Qty.
EX12001	30057099	EX12001 model - 12,000 g capacity, 0.1 g readability	1/ea
30057100	30057100	EX24001 model - 24,000 g capacity, 0.1 g readability	1/ea
30057101	30057101	EX35001 model - 35,000 g capacity, 0.1 g readability	1/ea

Ohaus AC Adapter

OHAUS - For use with Ohaus scales and balances.

Cat. No.	Mfr. No.	Description	Qty.
46001802	46001802	AC adapter	1/ea

Weighing

Balances – Electronic

Scout® SPX Balances

OHAUS - The Scout® SPX comes in a slim, stackable design with large backlit LCD. Features include overload protection rated at 10 times the capacity of the balance, multiple weighing units and application modes. Geared for high performance in your facility with fast stabilization time as fast as 1 second. High resolution for precise and repeatable weighing results. High strength stainless steel pan, impact-resistant pan support and integrated transportation/storage lock.



Cat. No.	Mfr. No.	Description	Qty.
Pan size (L x W) 4.7 in. (120 mm)			
SPX622	SPX622	SPX622 model - 620 g capacity, 0.01 g readability	1/ea
Pan size (L x W) 5.5 x 6.7 in. (140 x 170 mm)			
30253027	30253027	SPX6201 model - 6,200 g capacity, 0.1 g readability	1/ea
30253028	30253028	SPX8200 model - 8,200 g capacity, 1 g readability	1/ea



Practum® Precision Balances

SARTORIUS - Practum® has everything you need for standard applications. Accurate, consistent readings with excellent repeatability based on Sartorius quality and technology designed in Germany. High reliability and durability provided by mechanical overload protection. Supervisor lock for preventing unintentional changes to the setup settings.

- Overload protection for years of reliability
- Supervisor lock
- Fast and easy data transfer

Cat. No.	Mfr. No.	Description	Qty.
PRACTUM612	PRACTUM612-1S	610 g capacity - 10 mg readability	1/ea
PRAC51011S	PRACTUM5101-1S	5,100 g capacity - 100 mg readability	1/ea



Secura® Precision Balance

SARTORIUS - Secura® provides highly accurate weighing results and operating convenience, it also features built-in protection systems for complete reliability and regulatory compliance – the safe and secure way. Real-time guidance prompts for leveling, automatic internal adjustment, and 100% traceable, clear documentation with sample and batch identifiers make your lab work more efficient.

- Real-time alarm messaging and interactive user guidance for leveling
- SQmin for automatic detection and monitoring for acceptable USP operating range
- Fully automatic internal adjustment function, isoCAL
- Cal Audit Trail for easy, traceable documentation of data
- GLP-GMP-compliant printouts
- Standard password security features
- Integrated PC direct function and plug & work connectivity to printer

Cat. No.	Mfr. No.	Description	Qty.
SECURA5102	SECURA5102	5,100 g capacity - 10 mg readability	1/ea



Dial-O-Gram® 300 Series Balance

OHAUS - The Dial-O-Gram® balances offer the accuracy and convenience of an integrated weigh below balance while allowing students to visualize mass measurement principles. Designed with a hanging pan system With aluminum pressure castings for the base and beam assembly, agate bearings, steel knife-edges, and stainless steel pan, the Dial-O-Gram® is built to the highest standard of quality. The three-point base, special floating bearing principle and beam design eliminates the need for level adjustments. The self-aligning beam ensures accurate results are garnered effortlessly.

Specifications:

Readability	0.1 g
Linearity.....	±0.01 g
Pan size.....	0.5 x 3.5 in. (13 x 89 mm)

Cat. No.	Mfr. No.	Description	Qty.
B1900-13	80000009	310-00 model - 310 g balance	1/ea



Triple Beam 700 Series Balances

OHAUS - These balances offer the accuracy and convenience of a top loading balance while allowing students to gain hands-on experience through manipulation of the poises and attachment weights (sold separately), as well as to visualize mass measurement principles. The 700 series accommodates a range of laboratory and education applications. Some models have a tare beam to allow containers up to 225 g to be balanced out, and a variety of weighing platforms are also available.

Specifications:

Readability	0.1 g
Pan size.....	6 in. diameter

Beams

Front	10 x 0.1 g
Center.....	500 x 100 g
Rear	100 x 10 g

Capacity

Without attachment weights.....	.610 g
With attachment weights.....	2610 g

Cat. No.	Mfr. No.	Description	Qty.
Stainless steel plate platform			
B1900-6	80000012	750-S0 model - no tare capacity	1/ea
B1900-5	80000013	760-00 model - 225 g tare capacity	1/ea
Stainless steel pan platform			
B1900-1	80000011	710-00 model - removable pan, no tare capacity	1/ea
B1900-2	80000031	710-T0 model - removable pan, 225 g tare capacity	1/ea



Harvard Trip Balances

OHAUS - The Harvard Trip Balance is carefully engineered to provide the accuracy necessary in comparative weighing. Deep notched and tiered beams. All-metal base and beam, stainless steel pan. Weight set (2,000 g model, accessory sold separately), built-in sliding masses, magnetic damping, self-aligning beam design and floating agate bearings, counterbalancing knob for quick zeroing, hardened steel edges.

Specifications:

Maximum Capacity	2,000 g
Readability	0.1 g
Linearity.....	± 0.1 g

Cat. No.	Mfr. No.	Description	Qty.
B1900-15	80000003	1450-SD model - 1 beam	1/ea
B1900-18	80000004	1550-SD model - 2 beams	1/ea
B1900-19	80000005	1560-SD model - 2 beams and tare beam	1/ea



Triple Beam Dial-O-Gram® 1600 Series Balances

OHAUS - Choose from either a 6 in. (152 mm) flat stainless steel weighing platform or a 6 in. (152 mm) removable stainless steel pan (¾ in. deep). Counterbalancing knob for quick zeroing, positive poise positioning for repeatable results, self-aligning beam design, magnetic damping to minimize oscillation and speed weighing.

Specifications:

Readability	0.1 g
Capacity.....	.610 g

Beams

Front	10 x 0.1 g
Center.....	500 x 100 g
Rear	100 x 10 g

Cat. No.	Mfr. No.	Description	Qty.
Stainless steel pan platform			
B1900-12	80000036	1610-00 model - removable pan - 225 g tare capacity	1/ea
Stainless steel plate platform			
B1900-11	80000006	1650-00 model - 225 g tare capacity	1/ea

Weighing

Calipers/Scales



Carbon-Fiber Calipers

CARDINAL HEALTH - These Traceable® composite carbon-fiber calipers measure outer diameter and inner diameter. They have an easy-to-read digital $\frac{1}{8}$ in. high jumbo display and switch from inches to millimeters at the touch of a button. The "zero" button instantly sets the unit to zero when the jaws are at any position; this permits setting a Floating Zero™ reference point to read greater than/less than results without calculations.

Available in 4 in. and 6 in. measuring ranges, these ergonomically designed calipers have an ultra-smooth slide bar that requires no lubrication. Units will run on the supplied battery for 10,000 hours. Resolution is 0.01 in. (0.1 mm) and accuracy is ± 0.01 in. (0.2 mm). A serial-numbered certificate is provided from an ISO/IEC 17025 calibration laboratory indicating traceability N.I.S.T. standards.

Traceable® is a registered trademark of Control Company.

Floating Zero™ is a trademark of Control Company.

Cat. No.	Description	Qty.
C3316-10	4 in. caliper	1/ea
C3316-11	6 in. caliper	1/ea



Vernier Calipers with Metric and English Scales

BEL-ART - Vernier Calipers can be used to measure internal and external dimensions with utmost precision. Precise measurements can be made with the fine adjustment thumb roller, and reading scales create no parallax.

- Parallel jaws are $1\frac{1}{2}$ in. (40 mm) deep
- Inside jaws and round plastic rod depth gauge provide added value
- Lower scale: 6 in. with 0.005 in. subdivisions; upper scale: 150 mm with 0.1 mm subdivisions
- Molded in rigid plastic; will not scratch like metal
- Non-conducting, corrosion resistant, and lightweight

Cat. No.	Mfr. No.	Description	Qty.
M1109-1	134150000	Vernier Metric/English Calipers	1/ea

Handheld Scales

OHAUS - These small hand-held balances that fit conveniently in the palm of the hand deliver high performance in a functional design. These little scales with sleek styling and convenient size are ideal to take anywhere.



- Liquid crystal display (LCD)
- 2 AAA batteries (included)
- ABS housing and pan, protective snap-on cover
- Software overload/underload protection, external push-button calibration

Cat. No.	Mfr. No.	Description	Qty.
B1902-02	71142842	HH120 model - 120 g capacity, 0.1 g readability	1/ea
B1902-03	71142844	HH320 model - 320 g capacity, 0.1 g readability	1/ea

Ohaus Spring Scale

OHAUS - The rugged OHAUS spring scales are constructed of shatterproof plastic and metal and are economical choice for general weighing, force experiments, action-reaction demonstrations, and much more. ABS housing with metal face plate, pointer, spring and hook. Large bright colored dial face, easy-to-read black graduations on a frosted aluminum background.



Specifications:

Maximum capacity 5,000 g
Readability 100 g
Dimensions (H x L x W) 0.9 x 7.59 x 1.81 in.
(23 x 193 x 46 mm)

Cat. No.	Mfr. No.	Description	Qty.
8008-MN	80000018	8008-MN model - spring scale	1/ea

YA Gold Pocket Scale

OHAUS - The YA Gold Pocket Scale delivers great performance in a stylish, yet functional design and convenient size, that's ideal to take anywhere. Bright, backlit LCD and simple, quick operation.



- Unique hinged cover design protects the scale
 - Rugged plastic construction with stainless steel weighing pan
 - Weighs in g, oz, ct, gn
 - Energy-saving auto shut-off feature
- Specifications:**
- Maximum capacity 100 g
Readability 0.01 g
Linearity ± 3 g

Cat. No.	Mfr. No.	Description	Qty.
B1900-300	80251910	YA102 model - pocket scale	1/ea

Weighing

Weighing Boats



Weigh Boat® Containers

DYN-A-MED - These lightweight and disposable plastic Weigh Boat® Containers simplify handling and transferring of liquid or solid samples during weighing procedures.

A stable, flat bottom and a flat-turned gripping edge make them easier to manipulate than unwieldy papers or heavy glass and porcelain labware. Flexible boats can be squeezed to control pouring, then can be rinsed with a wash-bottle stream, transferring the total sample.

The smooth surface finish and rounded interior corners facilitate the removal of granular and powdered samples. Non-wetting polystyrene is resistant to inorganic solutions. Precision manufacturing methods hold individual Weigh Boat® containers to close weight tolerance, simplifying taring procedures. 500 containers per package.

Cat. No.	Mfr. No.	Description	Qty.
B2045-5	80050	Micro - 7 mL	12 pk/cs
B2045-10	80055	Standard - 100 mL	4 pk/cs
B2045-15A	80060	Large - 250 mL	2 pk/cs



Standard Weighing Boats

HEATHROW SCIENTIFIC - These flexible polystyrene boats feature smooth surfaces to provide accurate pour-outs with minimal sample loss.

- Biologically inert and resistant to dilute and weak acids, aqueous solutions, alcohols, and bases
- Temperature range -10°C to 70°C (14°F to 158°F)
- Can be used with microwave moisture analyzers
- Boats are shallow with a wide, flat bottom to resist tipping.
- Rounded corners simplify transfer
- 1 color (blue) and 3 sizes
- All are FDA/food-grade compliant

Cat. No.	Mfr. No.	Description (L x W x H)	Qty.
B2145-7	HS1421A	Small - 46 x 46 x 8 mm	500/pk
B2145-8	HS1421B	Medium - 85 x 85 x 24 mm	500/pk
B2145-9	HS1421C	Large - 140 x 140 x 22 mm	500/pk



Hexagonal Weighing Boats

HEATHROW SCIENTIFIC - These flexible polystyrene boats feature smooth surfaces to provide accurate pour-outs with minimal sample loss.

- Bend flexible boats at points to form pour spouts
- Flat bottoms and sloping sides provide accurate transfer
- Biologically inert and resistant to dilute and weak acids, aqueous solutions, alcohols and bases.
- Temperature range -10°C to 70°C (14°F to 158°F)
- Can be used with microwave moisture analyzers
- Antistatic version only
- 1 color (white), 3 sizes
- All are FDA/food-grade compliant

Cat. No.	Mfr. No.	Description (L x W x H)	Qty.
B2145-10	HS14251A	Small - 38 x 25 x 9 mm	500/pk
B2145-11	HS14251B	Medium - 64 x 51 x 19 mm	500/pk
B2145-12	HS14251C	Large - 102 x 76 x 22 mm	500/pk



Pour-Boat Weighing Dishes

HEATHROW SCIENTIFIC - Pour-spout design easily dispenses samples without flexing the dish. Flat-bottom dishes are made from 12-mil thick polystyrene for better strength, stability, and handling. Biologically inert and resistant to dilute and weak acids, aqueous solutions, alcohols and bases

- Temperature range -10°C to 70°C (14°F to 158°F)
- Can be used with microwave moisture analyzers
- 1 color (white), 3 sizes
- All are FDA/food-grade compliant

Cat. No.	Mfr. No.	Description (L x W x H)	Qty.
B2145-4	HS1419A	Small - 43 x 58 x 13 mm	500/pk
B2145-5	HS1419B	Medium - 83 x 132 x 26 mm	500/pk
B2145-6	HS1419C	Large - 108 x 183 x 26 mm	500/pk

Weighing

Weights and Weight Sets



B1900-49



B1900-50



ASTM Class 4 Weight Sets

OHAUS - Adjusted to meet or exceed ASTM Class 4 tolerances. Weights from 5 mg to 2 kg are stainless steel. Weights from 1 mg to 2 mg are aluminum. Weight sets include a polycarbonate case. No certificate.

Cat. No.	Mfr. No.	Description	Qty.
B1900-49	80780100	500 mg–1 mg weight set	1/ea
B1900-50	80780111	50 g–1 mg weight set	1/ea

ASTM Class 6 Weight Set

OHAUS - Adjusted to meet or exceed ASTM Class 6 tolerances. Weights from 2 kg to 1 g are stainless steel and weights 500 mg and below are aluminum. Weight sets include a weight case.

Cat No.	Mfr. No.	Description	Qty.
B1903-05	80850116	Cylindrical set, 2 kg–1 g	1/ea

Avoirdupois Class F Cast Iron Grip Handle Weight

TROEMNER - Cast iron weights are manufactured to meet NIST handbook 105-1 specifications. The weights are manufactured from high quality iron that meets specifications for hardness. Castings are free of cracks, pits and sharp edges and meet surface roughness requirements. Each weight has an adjusting cavity located on its side and is sealed with a lead plug and steel back-up spacer to provide a tamper resistant seal.



All surfaces are smooth and free of scratches, dents and pores as outlined in NIST handbook 105-1. Weights are protected by a durable coat of paint to protect the casting from rusting, and resistant to chipping. Color coding – gold for metric and silver for avoirdupois – is used to differentiate the weights. Cast Iron weights are not supplied in a case.

Weights are available with no certificate, Traceable Certificate or NVLAP Certificate.

Cat. No.	Mfr. No.	Description	Qty.
Weights with no certificate			
TR9074	9074	10 lb. weight	1/ea
TR9080	9080	25 lb. weight	1/ea
Weights with traceable calibration certificate			
TR9076T	9076T	20 lb. weight	1/ea

Class 1 Stainless Steel Electronic Balance Calibration Weights

TROEMNER - Class 1 weights have a mirror-like finish and are made of high-quality, stainless steel alloy, which offers controlled density, low magnetic susceptibility, good stability and resistance to corrosion and damage. They have an adjusting cavity to allow for adjustment during future calibrations. Weights are available in a cylindrical design up to 5 kg and a stackable grip-handle design from 4 to 30 kg. Weights 5 kg and below are supplied in protective case. Weight sets include five weights: 100, 200, 300 and 500 g and 1 kg. Weights are available with no certificate, Traceable certificate or with NVLAP certificate.



Cat. No.	Mfr. No.	Description	Qty.
Cylindrical weights			
B2185-20	8152	50 g weight	1/ea
B2185-16	8144	100 g weight	1/ea
B2185-12	8136	300 g weight	1/ea
Cylindrical weights with traceable certificate			
TR8152T	8152T	50 g weight	1/ea
Cylindrical weights with NVLAP certificate			
B2185-10C	8132W	500 g weight	1/ea
B2185-8C	8128W	1,000 g weight	1/ea
B2185-6C	8124W	2 kg weight	1/ea
Weight sets			
TR8170T	8170T	100 g-1 kg weight set with traceable certificate	1/ea

Class 4 Stainless Steel Electronic Balance Calibration Weights

TROEMNER - Class 4 weights have a satin-like appearance and finish and are made of high-quality, stainless steel alloy, which offers controlled density, low magnetic susceptibility, good stability and resistance to corrosion and damage. An adjusting cavity allows for adjustment during future calibrations. Weights are available in a cylindrical design up to 5 kg and a stackable grip-handle design from 4 to 30 kg. Weights 5 kg and below are supplied in a protective case. Weights are available with no certificate, Traceable certificate or with NVLAP certificate.



Cat. No.	Mfr. No.	Description	Qty.
Cylindrical weights with traceable certificate			
TR8432T	8432T	500 g weight	1/ea
Weight set with NVLAP certificate			
TR8470W	8470W	100 g-1 kg weight set	1/ea

Weighing

Weights and Weight Sets

Metric Precision Weight Sets, ANSI/ASTM Class 1

TROEMNER - Troemner Class 1 precision weight sets conform to ANSI/ASTM E617 Class 1 standards.

Class 1 weights 1 g to 1 kg are made of Troemner Alloy 8 stainless steel, which possesses low magnetic susceptibility, uniform consistency and high resistance to corrosion. Weights 5 to 500 mg are made of stainless steel (30 mg weights are made of aluminum). Weights 3 mg and smaller are made of aluminum. Weights 1 g and larger feature a two-piece construction. The body of the weight is one piece, and the knob of the weight is the second piece. The knob has a thread that screws into the body and is tightened. There is a cavity below the knob thread in the body that contains adjusting material, typically of the same material from which the weight is made. Weights 500 mg and smaller feature one-piece construction with one side turned up to make them easy to handle with forceps. The corners and edges of these weights are smooth. The nominal value is etched or stamped on the top surface of the weight and their shape is square. All surfaces are polished to a mirror-like finish and conform to specifications in ANSI/ASTM E617.

Weights are available with no certificate, Traceable certificate or NVLAP certificate.



Cat. No.	Mfr. No.	Description	Qty.
Weight sets with traceable calibration certificate			
TR7223-1T	7223-1T	1 mg–200 g weight set	1/ea

Metric Precision Weights, ANSI/ASTM Class 1

TROEMNER - Troemner Class 1 precision weights are manufactured of high-quality stainless steel and conform to ANSI/ASTM E617 Class 1 specifications.

Class 1 weights 1 g to 1 kg are made of Troemner Alloy 8 stainless steel, which possesses low magnetic susceptibility, uniform consistency and high resistance to corrosion. Weights 5 to 500 mg are made of stainless steel (30 mg weights are made of aluminum). Weights 1 g and larger feature a two-piece construction. The body of the weight is one piece and the knob of the weight is the second piece. The knob has a thread that screws into the body and is tightened. There is a cavity below the knob thread in the body that contains adjusting material, typically of the same material from which the weight is made. Weights 500 mg and smaller feature one-piece construction with one side turned up to make them easy to handle with forceps. The corners and edges of these weights are smooth. The nominal value is etched or stamped on the top surface of the weight and their shape is square. All surfaces are polished to a mirror-like finish and conform to specifications in ANSI/ASTM E617. Weights 1 mg through 2 kg are supplied with a case.



Weights are available with no certificate, Traceable certificate or NVLAP certificate. The traceable certificate is designed for those laboratories and companies that require traceability but do not need to meet any stringent regulatory requirements. The NVLAP certificate provides compliance in both measurement process and data reported to the customer to meet a variety of standards, including NVLAP Handbook 150-2, ISO 9000, ISO/IEC 17025, FDA, GMP, GLP, DOD, ANSI/NCSL Z540-1 and nuclear requirements.

Cat. No.	Mfr. No.	Description	Qty.
Weights with no certificate			
B2170-26	7033-1	10 mg weight	1/ea
B2170-23	7029-1	100 mg weight	1/ea
B2170-17	7025-1	1 g weight	1/ea
Weights with NVLAP calibration certificate			
TR7032-1W	7032-1W	20 mg weight	1/ea
TR7024-1W	7024-1W	2 g weight	1/ea
TR7022-1W	7022-1W	5 g weight	1/ea
Weights with traceable calibration certificate			
TR7030-1T	7030-1T	50 mg weight	1/ea
TR7028-1T	7028-1T	200 mg weight	1/ea

Metric Precision Weight Sets, ANSI/ASTM Class 2

TROEMNER - Troemner Class 2 precision weight sets conform to ANSI/ASTM E617 Class 2 standards.

Weight sets where the largest weight is 500 g and below are supplied in attractive, durable, high quality, patented polycarbonate cases with a compartment for each weight within the case. There is also a compartment for a brush, forceps and a USB Flash Drive which contains the electronic certificate. (Weight sets ordered with Traceable certificate will not have a USB Flash Drive; a printed certificate will be sent with the weights.). The cases are designed specific to the size and style of the weight so each weight fits snug in its compartment. Custom bumpers rest above each weight to assure weights are held securely in place.

Weights are available with no certificate, Traceable certificate or NVLAP certificate. The traceable certificate is designed for those laboratories and companies that require traceability but do not need to meet any stringent regulatory requirements. The NVLAP certificate provides compliance in both measurement process and data reported to the customer to meet a variety of standards, including NVLAP Handbook 150-2, ISO 9000, ISO/IEC 17025, FDA, GMP, GLP, DOD, ANSI/NCSL Z540-1 and nuclear requirements. One weight set per each.



Cat. No.	Mfr. No.	Description	Qty.
Weights with traceable calibration certificate			
TR7223-2T	7223-2T	1 mg–200 g weight set	1/ea



Metric Precision Weights, ANSI/ASTM Class 2

TROEMNER - Troemner Class 2 precision weights conform to ANSI/ASTM E617 Class 2 standards.

Class 2 weights 1 g and larger are of two-piece construction with the body of the weight being the primary piece and the knob of the weight is the secondary piece. The knob has a thread that screws into the body and is tightened. In the body, there is a cavity below the knob thread which contains adjusting material, typically the same material from which the weight is made. Weights 1 mg through 10 kg are supplied in a case.

Weights are available with no certificate, Traceable certificate or NVLAP certificate.



Metric Precision Weights, ANSI/ASTM Class 3

TROEMNER - Troemner Class 3 precision weights conform to ANSI/ASTM E617 Class 3 standards.

Class 3 weights 1 g and larger are of two-piece construction with the body of the weight being the primary piece and the knob of the weight is the secondary piece. The knob has a thread that screws into the body and is tightened. In the body, there is a cavity below the knob thread which contains adjusting material, typically the same material from which the weight is made. Weights 500 mg and smaller are of one-piece stainless steel construction with one side turned up for easy handling. Weights 1 mg through 10 kg are supplied in a case.

Weights are available with no certificate, Traceable certificate or NVLAP certificate.

Cat. No.	Mfr. No.	Description	Qty.
Weights with traceable calibration certificate			
TR7021-2T	7021-2T	10 g weight	1/ea

Cat. No.	Mfr. No.	Description	Qty.
Weights with traceable calibration certificate			
TR7029-3T	7029-3T	100 mg weight	1/ea
TR7025-3T	7025-3T	1 g weight	1/ea

Weighing

Weights and Weight Sets

Metric Precision Weight Sets, ANSI/ASTM Class 4

TROEMNER - Troemner Class 4 precision weight sets conform to ANSI/ASTM E617 Class 4 standards.

Class 4 weights 1 g to 1 kg are made of Troemner Alloy 8 stainless steel, which possesses low magnetic susceptibility, uniform consistency and high resistance to corrosion. Weights 1 g and larger feature a 2-piece construction. The body of the weight is one piece, and the knob of the weight is the second piece. The knob has a thread that screws into the body and is tightened. There is a cavity below the knob thread in the body that contains adjusting material, typically of the same material from which the weight is made. All surfaces are polished to a mirror-like finish and conform to specifications in ANSI/ASTM E617.

Weights are available with no certificate, Traceable certificate or NVLAP certificate. The traceable certificate is designed for those laboratories and companies that require traceability but do not need to meet any stringent regulatory requirements. The NVLAP certificate provides compliance in both measurement process and data reported to the customer to meet a variety of standards, including NVLAP Handbook 150-2, ISO 9000, ISO/IEC 17025, FDA, GMP, GLP, DOD, ANSI/NCSL Z540-1 and nuclear requirements. One weight set per each.



Cat. No.	Mfr. No.	Description	Qty.
Weight sets with traceable calibration certificate			
TR7224-4T	7224-4T	1 g–100 g weight set	1/ea

Metric Precision Weights, ANSI/ASTM Class 4

TROEMNER - Troemner Class 4 precision weights conform to ANSI/ASTM E617 Class 4 standards.

Class 4 weights 1 g and larger are of two-piece stainless steel construction with the body of the weight being the primary piece and the knob of the weight is the secondary piece. The knob has a thread that screws into the body and is tightened. In the body, there is a cavity below the knob thread which contains adjusting material, typically the same material from which the weight is made. Weights 500 g and smaller are of one-piece stainless steel construction with one side turned up for easy handling. Weights 3 g and smaller are made of aluminum. Weights 1 g through 10 kg are supplied in a case.

Weights are available with no certificate, Traceable certificate or NVLAP certificate.



Cat. No.	Mfr. No.	Description	Qty.
Weights with no certificate			
B2187-16	7021-4	10 g weight	1/ea
Weights with NVLAP calibration certificate			
TR7033-4W	7033-4W	10 mg weight	1/ea
TR7029-4W	7029-4W	100 mg weight	1/ea
TR7025-4W	7025-4W	1 g weight	1/ea
Weights with traceable calibration certificate			
TR7020-4T	7020-4T	20 g weight	1/ea

Weighing

Weights and Weight Sets

Metric Precision Troemner UltraClassSM Weights

TROEMNER - UltraClassSM weights 1 g to 1 kg are made of Troemner Alloy 8 stainless steel, which possesses low magnetic susceptibility, uniform consistency and high resistance to corrosion. Weights 5 to 500 mg are made of stainless steel. Weights 1 g and larger feature a two-piece construction. The body of the weight is one piece and the knob of the weight is the second piece. All surfaces are polished to a mirror like finish and conform to specifications in ANSI/ASTM E617. Weights 1 mg through 2 kg are supplied with a case.

Weights are available with no certificate, Traceable certificate or NVLAP certificate.



TR7029-0W

TR7014-0W

Cat. No.	Mfr. No.	Description	Qty.
Weights with NVLAP calibration certificate			
TR7029-0W	7029-0W	100 mg weight	1/ea
TR7018-0W	7018-0W	50 g weight	1/ea
TR7017-0W	7017-0W	100 g weight	1/ea
TR7016-0W	7016-0W	200 g weight	1/ea
TR7014-0W	7014-0W	500 g weight	1/ea



Weighing Metric Test Weight Set, NIST Class F

TROEMNER - Test commercial weighing devices with this cylindrical Class F weight set. Used primarily by state and local weights and measures officials, device installers and service technicians, you can use these weights to test the accuracy of Class III L and III scales and most Class III scales. You can also use the weight set to verify scales that have a 0.1% accuracy. Weights are manufactured from grade 303 stainless steel alloy, which offers closely controlled density, low magnetic susceptibility, good stability and resistance to corrosion and handling damage. Weights smaller than 200 g, 8 oz. and 0.5 lbs. have a one-piece design.

Supplied with carrying case and weights are available with no certificate, Traceable certificate or NVLAP certificate. Legal for trade (USA)—meets NIST handbook 105-1 specifications.

Cat. No.	Mfr. No.	Description	Qty.
Weight sets with NVLAP calibration certificate			
TRTW10010W	TW-100-10W	10 mg-100 g weight set	1/ea

Weighing Metric Stainless Steel Test Weights, NIST Class F

TROEMNER - Stainless steel NIST Class F weights 100 mg and above are manufactured from grade 303 stainless steel alloy, which offers closely controlled density, low magnetic susceptibility, good stability and resistance to corrosion and handling damage. All surfaces have a satin finish and conform to specifications in NIST handbook 105-1.



Weights 200 g and larger have two-piece construction which indicates that the weight is constructed of multiple pieces of raw material. The body of the weight is constructed with a cavity that contains the adjusting material, which is typically the same material from which the weight is made. Once the weight is adjusted into tolerance, it is sealed using an aluminum cap and stainless steel back-up spacer.

Weights are available with no certificate, Traceable certificate or NVLAP certificate.

Cat. No.	Mfr. No.	Description	Qty.
Weights with no certificate			
TR1312	1312	500 g weight	1/ea

Terms and Conditions of Sale

The following sets forth the terms and conditions of sale for Cardinal Health 200, LLC located at 7000 Cardinal Place, Dublin, Ohio 43017. ("Cardinal Health"). By placing an order, Customer agrees to the terms and conditions below to the extent not inconsistent with any specific written agreement between Cardinal Health and Customer.

Prices

For up-to-the-minute price and availability, call your local Cardinal Health Customer Service Representative or sign in to www.cardinalhealth.com. Minimum order quantities and/or special handling and/or delivery fees may apply. Please confirm at time of order placement.

Some products distributed by Cardinal Health may not be available for sale outside the U.S. and Puerto Rico.

Payment Terms

Payment terms are net 30 days, provided that Cardinal Health may at any time cancel, increase or decrease such credit limit, place Customer on C.O.D. or hold products from shipping based upon Customer's payment performance, changes in Customer's financial condition or other credit considerations deemed relevant by Cardinal Health. Any invoice that is paid past its due date will be assessed interest at a 1½% monthly (or 18% annual) rate or the highest amount allowed by law, if lower. Failure or delay by Cardinal Health to bill Customer for any such service charge will not waive Cardinal Health's right to receive the same.

Any invoice dispute must include the following along with the partial payment of any undisputed portion from such invoice:

- (1) Invoice number, (2) Product code, (3) Amount disputed, and
- (4) Specific details as to the nature of the dispute.

Until products are paid for in full, Cardinal Health retains, and the Customer hereby grants Cardinal Health, a security interest in the products. Cardinal Health shall have a security interest in any deposit(s) to secure payment of all of Customer's obligations, now existing, and arising in the future, to Cardinal Health or any entities affiliated with Cardinal Health. If Customer defaults on any payment due to Cardinal Health, Cardinal Health may exercise a right of setoff against any deposit held by Cardinal Health or any amounts owed by any affiliate of Cardinal Health to Customer.

Returned Goods Policy

Return Procedure

All returns must be authorized by your Cardinal Health Sales or Customer Service Representative, who will advise you of the proper mode of transportation for the shipment. Authorization will be valid for only 30 days.

Each return must include the following information:

- (1) Return Goods Authorization, (2) Purchaser name and address,
- (3) Cardinal Health invoice number, (4) Invoice date, (5) Purchaser purchase order number, (6) Quantity, catalog number and description of item,
- (7) Reason for return, and (8) Signed Ongoing Assurance Statement for prescription drugs or other products specified by Cardinal Health.

Return Policy

Cardinal Health will authorize the return of all products in salable condition with the following exceptions:

- Products not purchased from Cardinal Health. By offering product for return to Cardinal Health, Customer warrants and certifies that the products were purchased by the Customer directly from Cardinal Health.
- Products purchased more than 3 months prior to the return request.
- Products with expiration date less than 60 days.
- Products that are regulated hazardous chemicals or reagents.
- Instruments that have been used to analyze human body tissue.
- Sterile eachees of low unit of measure product.
- Special or custom products made to customer specifications.
- Products returned in defaced or other than original packaging.
- Drug products that are shipped outside the United States (reimport prohibited).
- Flu Vaccine.
- Any controlled substance product that is regulated by the DEA.
- Prescription drugs or other products specified by Cardinal Health that are returned without a customer-signed Cardinal Health Ongoing Assurance Statement.
- Prescription drugs that are returned that do not achieve Cardinal Health protective service and protective packaging guidelines.
- Refrigerated, frozen or temperature-controlled products with the exception that Cool Room coded product ("C" coded) can be accepted back from customers and returned to stock only if ALL circumstances noted below apply to the return.

1. The product is returned within a 5-day transit time window.
 2. The external outdoor air temperature is less than 86 degrees Fahrenheit (86°F).
 3. The only acceptable reasons for the return are a picking error or an ordering error.
- All return items not locally stocked will be subject to locally determined restocking fee. All returns not due to Cardinal Health error will be subject to a minimum of 15% restocking fee. In the event that an unauthorized return is accepted, there will be a minimum of 25% restocking fee.

Freight Claims

Shortages and damages must be reported to Customer Service within 72 hours from receipt. Customer must inspect all shipments the same day they are received (visible damage). Visible damage must be noted on the delivery and inspection requested from delivery carrier or claim will be disallowed. Concealed damage requires a request of inspection from the delivering carrier, which will be made within five (5) days of notification of the damage.

During the inspection, an *Inspection Report of Loss or Damage* will be filled out for signature by both Customer and the applicable carrier. Customer should take exception to any statement by the inspector with which they do not agree and retain a copy of the inspection report. Customer must retain the merchandise, carton(s) and inside packaging at Customer's facility until the inspection has been made and Customer has been given instructions for disposition of damaged merchandise.

Due to medical product licensing constraints, carriers are not entitled to salvage of damaged product. Obtain a *Certificate of Destruction* from the carrier. In the event an inspection is waived, an internal *Certificate of Destruction* is acceptable with approval from Cardinal Health.

Product Delivery

Shipments are FOB Destination. Cardinal Health shall use its reasonable efforts to fill orders, but Cardinal Health shall not be liable for nonperformance or delays caused by a shortage of raw materials, manufacturing problems, delivery or labor problems, acts of regulatory agencies, discontinuation of a product line, Acts of God or causes beyond its control. Customer agrees that, in such events, Cardinal Health may allocate products among all purchasers, without liability.

Warranty

CARDINAL HEALTH WARRANTS THAT ANY PRODUCT IT MANUFACTURES IS, AS OF THE DATE OF SHIPMENT, FIT FOR THE PURPOSES AND INDICATIONS DESCRIBED IN THE LABELING. UNLESS THE PRODUCT IS USED IN ACCORDANCE WITH ITS INSTRUCTIONS, THESE WARRANTIES ARE VOID AND OF NO EFFECT. OTHER PRODUCTS DISTRIBUTED BY CARDINAL HEALTH CARRY ONLY THOSE WARRANTIES MADE FOR THEM BY THEIR MANUFACTURER. THERE ARE NO OTHER EXPRESSED OR IMPLIED WARRANTIES, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. CARDINAL HEALTH'S SOLE OBLIGATION AND CUSTOMER'S EXCLUSIVE REMEDY FOR BREACH OF ANY WARRANTY SHALL BE, AT CARDINAL HEALTH'S OPTION, TO REPAIR OR REPLACE THE PRODUCT. CARDINAL HEALTH SHALL NOT BE LIABLE FOR PROXIMATE, INCIDENTAL OR CONSEQUENTIAL DAMAGES. MORE SPECIFIC WARRANTIES MAY ACCOMPANY INDIVIDUAL PRODUCTS.

Publicity

Customer will not make any press release or other public announcement regarding its purchases of products from Cardinal Health without Cardinal Health's express prior written consent.

Compliance with Law

By placing an order, Customer represents and warrants that it has all required local, state and federal licenses, permits and approvals required to purchase, use and/or store the products it elects to purchase from Cardinal Health and that all purchases from Cardinal Health are for Customer's "own use," as such term is defined in judicial or legislative interpretation. Customer acknowledges that Cardinal Health may suspend sales to Customer immediately if it reasonably determines that Customer has breached this "own use" limitation. If Customer receives from Cardinal Health any "discounts or other reductions in price" under Section 1128 b(b)(3)(a) of the Social Security Act (42 U.S.C.1320-7b(b)(3)(a)), Customer shall disclose the discounts or reductions in price under any state or federal program which provides cost or charge-based reimbursement to such customer for the products or services it purchases from Cardinal Health.

Governing Law

The agreement resulting from these Terms and Conditions of Sale shall be governed by the laws of the State of Ohio, applicable to contracts made and to be performed in that state.

Effective Date: February 1, 2007. All terms and conditions contained herein are subject to change without notice.



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Lit. No. 2LAB16-549618 (12/2019)

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