

ISO 9001-2015, WHO, FDA,
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ALPHA[®]
SUDARSHAN

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ASE-156



ASE-157



ASE-158

ASE-156 Water Bath Rectangular Thermostatic (Double Walled)

ALPHA[®]

Corrision Free rigid Construction, Temperature uniform, Lowest Powder consumption Algorithm,Digital Automatic Key Lock system,Remote monitoring Alarm and control system,Data Retentive delay and process timer system,

Temperature range	Ambient to 100 degree c.
Temperature Sensor	RTD (PT-100)
Control System	PID,Programmable Microprocessor

It is a double walled bath with inner chamber made of stainless steel 304 grade and outer wall of M.S. Sheet duly Powder coated. The gap between outer and inner walls is filled with special grade glass wool in order to avoid thermal losses. A drain plug is also fitted to the unit. The inner chamber fitted with immersion type heating element is covered with perforated removable diffuser tray. Top cover is provided with the unit as a standard accessory. Temperature from ambient+5°C to 100°C is controlled by Digital Microprocessor base PID temperaturer controller with an accuracy of $\pm 0.5^{\circ}\text{C}$. Complete with long wire & three pin socket. Other changes will be done on request or as per user specification..

Available in following sizes :

- (a) 300x250x100mm. (6 Holes of 75mm. dia.)
- (b) 355x355x100mm. (9 Holes of 75mm. dia.)
- (c) 355x405x100mm. (12 Holes of 75mm. dia.)

OPTIONAL ACCESSORIES

- (a) Stirrer with 1/20 H.P. 1440 RPM High speed motor with S.S. Rod and blade.
- (b) Digital Temperature Indicator-cum-Controller.
- (c) Low water level cutoff by electronic circuit

ASE-158 Water Bath Digital PID

ALPHA[®]

Stainless Steel unit double walled with inner chamber made up of air stainless steel 304 grade seamless and outside of Stainless Steel. The gap between the walls is filled with special grade glass wool 50 mm in order to avoid thermal losses. A brass drain plug is also fitted to the unit. The inner chamber fitted with SS immersion type heating element 1000 watt is covered with perforated removable diffuser tray. Top SS cover Pyramid/gable is provided with the unit as a standard accessory. Low water level cutoff device is fitted with circuit.

Temperature from ambient to 100° C is controlled with an accuracy of $\pm 0.5^{\circ}\text{ C}$. with LED PID Microprocessor controller or Digital Temperature Controller with indicator with PT 100 sensor. Supplied complete with 220/230 volts A.C. Supply. Complete with long wire & three pin socket. Other changes will be done on request or as per user specification..

Available in following sizes :

	WIDTH x HEIGHT x DEPTH	LOAD
(a)	250x350x200mm. (for 2 racks)	1.0 KW
(b)	300x400x200mm. (for 4 racks)	1.0 KW
(c)	420x360x300mm. (for 6 racks)	1.0 KW
(d)	605x300x300mm. (for 8 racks)	3.0 KW

OPTIONAL ACCESSORIES

- (a) Stirrer with 1/20 H.P. 1440 RPM High speed motor with S.S. Rod and blade.
- (b) Digital Temperature Indicator-cum-Controller.
- (c) Low water level cutoff by electronic circuit

Manufactured By : SUDARSHAN CHEMICALS India 324007 0744-2362345, 09414188018

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ASE-2025 DIGITAL VISIBLE SPECTROPHOTOMETERS

Double Display Range 340-960 nm with facility for automatic concentration, % Transmission and O.D absorbance measurement and wavelength resolution 5 nm. 3.1/2 digit data LED display, separate 3 digit LED display for Wavelength in nm with 1nm wavelength resolution. Equipped with a set of 2 round test tube cuvettes.

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ASE-156



ASE-157



ASE-158

ASE-156 Water Bath Rectangular Thermostatic (Double Walled) **ALPHA^R**

It is a double walled bath with inner chamber made of stainless steel 304 grade and outer wall of M.S. Sheet duly Powder coated. The gap between outer and inner walls is filled with special grade glass wool in order to avoid thermal losses. A drain plug is also fitted to the unit. The inner chamber fitted with immersion type heating element is covered with perforated removable diffuser tray. Top cover is provided with the unit as a standard accessory. Temperature from ambient to 100°C is controlled by Digital Microprocessor base PID temperaturer controller with an accuracy of $\pm 0.5^{\circ}\text{C}$. Complete with long wire & three pin socket. Other changes will be done on request or as per user specification..

Available in following sizes :

- (a) 300x250x100mm. (6 Holes of 75mm. dia.)
- (b) 355x355x100mm. (9 Holes of 75mm. dia.)
- (c) 355x405x100mm. (12 Holes of 75mm. dia.)

ASE-157 Water Bath Rectangular (Single Wall) **ALPHA^R**

Made out of heavy gauge stainless steel with concentric rings. Auto-cut heating elements are fitted to protect the same when bath gas dry. To work on 220/230 volts A.C. Supply. Complete with long wire & three pin socket. Other changes will be done on request or as per user specification..

Available in following sizes :

- (a) 300x250x100mm. (6 Holes of 75mm. dia.)
- (b) 355x355x100mm. (9 Holes of 75mm. dia.)
- (c) 355x405x100mm. (12 Holes of 75mm. dia.)

ASE-158 Serological Water Bath **ALPHA^R**

These unit are double walled with inner and outer chember made up of stainless steel. The gap between the walls is filled with special grade glass wool in order to avoid thermal losses. A drain plug is also fitted to the unit. The inner chamber fitted with immersion type heating element is covered with perforated removable diffuser tray. Top cover plain/gable is provided with the unit as a standard accessory. Heavy door is fitted on the chamber with hinges & locking arrangement with gasket on the door.

Temperature from ambient to 100°C is controlled with an accuracy of $\pm 0.5^{\circ}\text{C}$. with Microprocessor based Temperature Controller with indicator with PT 100 sensor. Supplied complete with 220/230 volts A.C. Supply. Complete with long wire & three pin socket. Other changes will be done on request or as per user specification..

Available in following sizes :

	WIDTH x HEIGHT x DEPTH	LOAD
(a)	300x250x175mm. (for 2 racks)	1.0 KW
(b)	330x300x175mm. (for 4 racks)	1.5 KW
(c)	450x300x175mm. (for 6 racks)	2.0 KW
(d)	605x300x175mm. (for 8 racks)	3.0 KW

OPTIONAL ACCESSORIES

- (a) Stirrer with 1/20 H.P. High speed motor with S.S. Rod and blade.
- (b) Digital Temperature Indicator-cum-Controller.

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REFRACTOMETER

Measurement range: 1.3000 to 1.7100, with +/- 0.0005 accuracy. Resolution: Refractive index min. Div.: 0.0001. Brix: 0.1% %, Measurement temperature: 5-50°C, Light source: LED lamp (Approximately wavelength of D-line)

Should consist of an imported half shade Nicol Polarizer, analyzer, 100mm' Diameter circular scale divided in degrees 0-360 Deg. x 1 Deg. And a sugar scale divided - 30 Deg. To + 130 Deg. X 1 Deg. ISS, a divided micrometre drum is given to read 0.05 Deg. (3 minutes) and 0.1 Deg. ISS, the scale is properly illuminated for taking readings, the body is very sturdy and separate sodium lamp with stand is provided, Complete with polarimeter tube, bubble traps at the center, 200mm, Sodium lamp with stand and transformer.

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ASE-200CC



ASE-200CP

ASE-200CC SHEET METAL / DESERT COOLERS (EFFECTIVE IN HOT DRY SUMMER MONTHS) ALPHA[®]

Elegantly designed GI sheet body. -Powerful Motor & Pump. High air delivery at low running cost. -Multi directional, Auto swing motorized louvers. -Powder coated durable finish. -Quality & workmanship at its best. Sheet Metal Desert Coolers are energy savers and quite effective in hot dry summer months.

Body Size 28" L x 28" W x 46" H Powder Coated colour. Depth of water tank 9". Cooler body is made of Galvanized 20 G Sheet. Cooler fan size 18" Fan Crompton Net of Plastic and pad of grass.

ASE-200CP SUBMERSIBLE PUMP (FOR COOLERS / FOOTERS) ALPHA[®]

Totally Submersible -Noiseless -Rust proof -Compact size. -Low electric Consumption -Continuos Rotary -Easy to maintainers & easy to cleaning - Essay to install -Operates event at low voltages.....

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ASE-148 & 149

ASE-148 Muffle Furnace Rectangular

Light weight with ceramic fibre wool insulation (instead of Brick Insulation). The outer casing is made of double walled thick P.C.R.C. Sheet, reattached with thick perforated sheet on the bottom portion., painted with attractive stove enamel. Heating elements are made of KANTHAL "A-1" wire and backed by high temperature cerwool insulation, which avoids loss of energy. Temperature control unit consists of Energy Regulator, fitted in front of furnace with two pilot lamps. The apparatus is complete with one pyrometer, thermocouple, silver thermal fuse, main lead with power plug. To work on 220/230 volts or 400/440 volts A.C. The energy regulator dial is arbitrarily marked 0-100 position. This marking does not indicate temperature. It indicates control level i.e. at Position '100' maximum electricity is allowed to flow to Furnace. Maximum Temp. is 950°C and Working Temp. 900°C. For model of higher temperature the maximum temp. is 1200°C and working temp 1100°C. Complete with long wire & three pin socket. **Other changes will be done on request or as per user specification.**

Muffle Size (W x D x H)	Rating	(Working 900°C)	Rating	Working 1100°C	WORKING 1150 °C
(a) 100x100x225mm.	1.5			3.0	
(b) 125x125x225mm.	2.0			4.0	
(c) 125x125x300 mm.	2.5			5.0	
(d) 150x150x300mm.	3.5			7.0	
(e) 200x200x300mm.	5.0			10.0	
(f) 175x175x475mm.	5.0			10.0	

OPTIONAL ACCESSORIES

- (a) Solid State Electronic Blind Controller in lieu of Energy Regulator.
- (b) Digital Temperature Indicator-cum-Controller.

ASE-149 Muffle Furnace (Industrial Grooved Type)

Light weight with ceramic fibre wool insulation (instead of Brick Insulation). The outer casing is made of double walled thick P.C.R.C. Sheet, reattached with thick perforated sheet on the bottom portion, painted with attractive stove enamel. Heating elements are made of KANTHAL "A-1" wire and inside chamber is made of GROOVED REFRACTORY for supporting the heating elements on four sides and backed by high temperature cerwool insulation, which avoids loss of energy. Temperature control unit consists of Energy Regulator, fitted in front of furnace with two pilot lamps. The apparatus is complete with power plug. TO work in 220.230 volts or 400/440 volts A.C. The energy regulator dial is arbitrarily marked 0-100 position, This marking does not indicate temperature. In indicates control level i.e., at Position '100' maximum electricity is allowed to flow to Furnace. At Position 'O' minimum electricity is allowed to flow to Furnace. The unit has a working temperature of 100°C with maximum upto 1200°C. and working temp 1100°C or 1150°C Complete with long wire & three pin socket. **Other changes can be done on request or as per user specification..**

MUFFLE SIZE (W x D x H)	RATING	WORKING 1100 °C	WORKING 1150 °C
(a) 125x125x300mm.	4.0 KW		
(b) 150x150x150mm.	4.5 KW		
(c) 200x200x300mm.	6.0 KW		
(d) 300x300x300mm.	10.0 KW		

OPTIONAL ACCESSORIES

- (a) Solid State Electronic Blind Controller
- (b) Digital Temperature Indicator-cum-Controller.

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ASE-148 & 149

ASE-148 Muffle Furnace Rectangular **ALPHA[®]**

Light weight with ceramic fibre wool insulation. The outer & inner casing is made of double walled thick Stainless Steel sheet, reattached with thick perforated sheet on the bottom portion. Heating elements are made of Silicon Carbide and backed by high temperature wool insulation, which avoids loss of energy. Temperature control unit consists of Energy Regulator, fitted in front of furnace with two pilot lamps. The apparatus is complete with thermocouple, silver thermal fuse, main lead with power plug. To work on 220/230 volts or 400/440 volts A.C. Temperature Control Through microprocessor Based PID controller Digital with double display with an accuracy of $\pm 1^{\circ}\text{C}$. This marking does not indicate temperature. It indicates control level i.e. at Position '100' maximum electricity is allowed to flow to Furnace. Maximum Temp. is 550°C and Working Temp. 500°C . For model of higher temperature the maximum temp. is 950°C and working temp 900°C . Complete with long wire & three pin socket. **Other changes will be done on request or as per user specification.**

Muffle Size (W x D x H) Rating (Working 500°C) Rating Working 950°C WORKING 900°C

(a)	100x100x225mm.	1.5	3.0
(b)	125x125x225mm.	2.0	4.0
(c)	125x125x300 mm.	2.5	5.0
(d)	150x150x300mm.	3.5	7.0
(e)	200x200x300mm.	5.0	10.0
(f)	300x300x300mm	5.0	10.0
(g)	175x175x475mm.	5.0	10.0

OPTIONAL ACCESSORIES

- (a) Solid State Electronic Blind Controller in lieu of Energy Regulator.
- (b) Digital Temperature Indicator-cum-Controller.

ASE-149 Muffle Furnace (Industrial Grooved Type) **ALPHA[®]**

Light weight with ceramic fibre wool insulation (instead of Brick Insulation). The outer casing is made of double walled thick P.C.R.C. Sheet, reattached with thick perforated sheet on the bottom portion, painted with attractive stove enamel. Heating elements are made of KANTHAL "A-1" wire and inside chamber is made of GROOVED REFRactory for supporting the heating elements on four sides and backed by high temperature cerwool insulation, which avoids loss of energy. Temperature control unit consists of Energy Regulator, fitted in front of furnace with two pilot lamps. The apparatus is complete with power plug. TO work in 220.230 volts or 400/440 volts A.C. The energy regulator dial is arbitrarily marked 0-100 position, This marking does not indicate temperature. In indicates control level i.e., at Position '100' maximum electricity is allowed to flow to Furnace. At Position '0' minimum electricity is allowed to flow to Furnace. At Position '0' minimum electricity is allowed flow to Furnace. The unit has a working temperature of 100°C with maximum upto 1200°C . and working temp 1100°C or 1150°C Complete with long wire & three pin socket. **Other changes can be done on request or as per user specification..**

MUFFLE SIZE (W x D x H) RATING WORKING 1100°C WORKING 1150°C

(a)	125x125x300mm.	4.0 KW
(b)	150x150x150mm.	4.5 KW
(c)	200x200x300mm.	6.0 KW
(d)	300x300x300mm.	10.0 KW

OPTIONAL ACCESSORIES

- (a) Solid State Electronic Blind Controller
- (b) Digital Temperature Indicator-cum-Controller.

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ASE-151 Hot Air Oven Universal (Memmert Type) *ALPHA^R*

These are sturdy double walled units with outer chamber made of M.S Sheet powder coated inner chamber made of stainless steel sheet 304 grade. The gap between inner and outer chamber is filled with high grade Mineral glass wool to avoid thermal losses. Beaded heating elements are made of high grade Imported Nicrome wire are placed in ribs, at bottom and both sides. It have Temp Uniformity at 150 degree : 2 ± 0.05 K. It have Temp fluctuation at 150 degree : 0.4 ± 0.005 K. The Recovery time after 30 second door opening at 150 degree 18 to 22 min. Over temperature cut out electronically above set temperature to ensure operational safety. Inner chamber is provided with ribs for adjusting perforated Stainless Steel shelves to convenient height. 2 Air ventilators are also provided on the sides of the unit. To work on 220/230 volts A.C. supply. Fitted with load indicator and safety thermostat take over indicator lamp. temp, LCD/ LED indicator. It have USB port for recording data. It have 24 point temperature calibration. All the control switches & pilot lamps are fitted on the front panel. Door gasket fixed on the double walled door for proper sealing.

Fitted with heavy hinges with a ball catcher, spring loaded door closing device. Door is duly insulated. All units are fitted with Forced Air Circulation fan as a standard feature. Complete with long wire & three pin socket. Other changes like Microprocessor Based Digital Controller Temperature Indicator-cum-controller with electronic timer 99 min & PT-100 sensors with an accuracy of $\pm 1^\circ\text{C}$ from ambient to $350^\circ\text{C} \pm 1^\circ\text{C}$. with thermostat control knob and indicators for mains and thermostat can be instal on requirement. Complete with manual .European CE (UK) certified.

Other changes will be done on request or as per user specification.

Available in following sizes :

INNER CHAMBER SIZE (W x D x H) TRAYS

- | | | |
|-----|----------------|---|
| (a) | 300x300x300mm. | 2 |
| (b) | 355x355x355mm. | 2 |
| (c) | 455x455x455mm. | 2 |
| (d) | 455x455x605mm. | 3 |
| (e) | 420x400x650mm | 3 |
| (f) | 605x605x605mm. | 3 |
| (g) | 605x455x910mm. | 3 |
| (g) | 605x605x910mm. | 4 |

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ASE-151 Hot Air Oven Universal (Memmert Type)

These are sturdy double walled units with outer chamber made of M.S Sheet powder coated inner chamber made of stainless steel sheet 304 grade. The gap between inner and outer chamber is filled with high grade Mineral glass wool to avoid thermal losses. Door gasket fixed on the double walled door for proper sealing. Beaded heating elements are made of high grade Imported Nicrome wire are placed in ribs, at bottom and both sides. It have Temp Uniformity at 250 degree : 2 ± 0.05 K. It have Temp fluctuation at 150 degree : 0.4 ± 0.005 K. The Recovery time after 30 second door opening at 100 degree 18 to 22 min. Over temperature cut out electronically above set temperature to ensure operational safety. Inner chamber is provided with ribs for adjusting perforated Stainless Steel shelves to convenient height. 2 Air ventilators are also provided on the sides of the unit. To work on 220/230 volts A.C. supply. Fitted with load indicator and safety thermostat take over indicator lamp. temp, LCD/LED indicator. It have USB port for recording data. It have 24 point temperature calibration. All the control switches & pilot lamps are fitted on the front panel. Door gasket fixed on the double walled door for proper sealing.

Fitted with heavy hinges with a ball catcher, spring loaded door closing device. Door is duly insulated. All units are fitted with Forced Air Circulation fan as a standard feature. Complete with long wire & three pin socket. Other changes like Microprocessor Based Digital Controller Temperature Indicator-cum-controller with electronic timer 99 min & PT-100 sensors with an accuracy of $\pm 1^\circ\text{C}$ from ambient to $250^\circ\text{C} \pm 1^\circ\text{C}$. with thermostat control knob and indicators for mains and thermostat can be installed on requirement. Complete with manual .European CE (UK) certified.

Other changes will be done on request or as per user specification.

Available in following sizes :

INNER CHAMBER SIZE (W x D x H) TRAYS

- | | | |
|-----|----------------|---|
| (a) | 300x300x300mm. | 2 |
| (b) | 355x355x355mm. | 2 |
| (c) | 455x455x455mm. | 3 |
| (d) | 455x455x605mm. | 3 |
| (e) | 420x400x650mm | 3 |
| (f) | 605x605x605mm. | 3 |
| (g) | 605x455x910mm. | 3 |
| (g) | 605x605x910mm. | 4 |

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ASE-183



ASE-184



ASE-185

ASE-183 Willy Grinder (Arthur H.Thomas Type) **ALPHA[®]**

Fitted with heavy duty PERFECT/EQUIVALENT Motor. The chamber is fitted with a hopper, provided with a cover. There delivery S.S. Sieves brush, L-N key and plastic receiver are supplied. A removable glass plate forms the face of the grinding chamber and permits observation during operation. Complete with long wire & three pin socket. *Other changes will be done on request or as per user specification..*

CHAMBER SIZE STEEL CHAMBER S.S.CHAMBER

- (a) 40x25mm. with 1/4 HP Motor.
- (b) 65x25mm.with 1/4 HP Motor.
- (c) 100x50mm.with 1/2 HP. Motor.
- (d) 200x75mm. with 1.0 HP Motor

ASE-184 Ball Mill (Laboratory Type) **ALPHA[®]**

Electrically operated having a capacity from a few gms. to 1 Kg. or 2 Kg. or 5 Kg.

Fitted with a F.H.P. Motor upto 2 Kg. jar and with 1/4 HP. heavy duty motor for 5 Kg. jar. Maximum speed 80 R.P.M. Supplied with steel ball for mixing and grinding. Operates on 220 volts A.C. mains. Complete with long wire & three pin socket. *Other changes will be done on request or as per user specification..*

CAPACITY ALUMINIUM JAR S.STEEL JAR

- (a) 1Kg. Jar
- (b) 2Kg. Jar
- (c) 5Kg. Jar

ASE-185 Electric Agate Mortar & Pestle (Fisher Type) **ALPHA[®]**

For unattended grinding of non gummy and non fibrous materials. Extensively used for preparing coal samples for calorific tests. The Mortar revolves and the pestle moves back and forth in a pattern reaching all parts of the Mortar. Its metallic housing with a F.H.P. Motor driven detachable turn table of cast aluminium has adjustable posts to hold Mortar of 75 to 135mm. dia. The arm of the pestle driving mechanism has hinged, heavy head which can be raised to insect or remove the sample or additional material to be added as desired. A built-in timer permits selection of grinding operation upto 60 minutes. The grinding vessel and mortar are all completely covered by a cleat acrylic cover. Supplied with Agate Pestle and Mortar of 75mm. dia. To operate on 220 Volts A.C. *Other changes will be done on request or as per user specification..*

- (a) -do- but with 75 mm dia Pestle and Mortar.
- (b) -do- but with 100mm dia Pestle and Mortar.

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ASE-2153 CHROMATOGRAPHY CABINET ALPHA[®]

Chromatography – cabinet chromatography cabinets, which are Made out of seasoned teakwood glass paneled frame. The interior wax coated for resistance to solvents and other chemicals. The glass paned on four sides and on top. lid tightened through clamps. Accommodate two (troughs) and with 3 glass rods. Castor wheels at base to permit easy manipulation. Supplied with two stainless steel boats.

Chromatographic Unit with TLC chamber (4 with each set) and Paper Chromatography kit (2 with each set)

The TLCchamber should be medium size with a lid made up of Glass.

TLCkit should contain Amino acid Sample (Arginine, Glutamine, Valine etc), Testsample, TLC plates, developing reagent, TLC Solvent

One kit suitable to perform at least 10 experiments

Kit with all the reagents required to perform the experiment.

Size : 24"x12"x24" , 36" x 12" x 24" , 80 x 37.5 x 65 cm

ASE-133 Tissue Culture Rack ALPHA[®]

Made out of tubular M.S. pipes duly painted for longer life. Each rack of size 48"x21" (Depth) is covered with thick unbreakable plexiglass. Distance between each rack is 15". Each rack is fitted with four florescent tubes. Copper choke are fitted on a seperate wooden plank fitted with castor wheels at its base, so that the chokes can be placed outside the tissue culture room, it desired, so as to avoid heat dissipation inside the air conditioned room which is a must. Exhaust fan is fitted to the box to throw out the heat generated from the chokes.

- (a) Unit of four racks with 16 tubes.
- (b) Unit of five racks with 20 tubes.
- (c) Unit of six racks with 24 tubes.

OPTIONAL ACCESSORIES

- (a) Automatic 0-24 hr. timer to regulate cyclic illumination conditions.
- (b) Lux Meter to measure light Intensity in lux.

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SPECIFICATION OF MUSEUM SHOWCASE

It should be made of steel, fine finished cream colored paint with sliding front unbreakable transparent glass cover.

It should have internal godrej lock with two keys.

It should be of size 77 x 36 x 15 inches size with stand of 5 inches heights.

It should be made of 20 Gauze sheet and should have partitions made of polished kota stone of cream / off white color.

It should have four partitions with five compartments.

Lowest compartment should be of 17 inch height and above four compartments each of 15 inch height.

it should have illumination with at least one LED light on both ends of every compartment.

Final approval will be after sample demonstrations.

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ASE-201 MUSEUM SHOWCASE

Made of steel, fine finished cream colored paint with sliding front unbreakable transparent glass cover. Internal godrej lock with two keys. 20 Gauze sheet and have partitions Painted kota stone of cream / off white color.

Four partitions with five compartments.

Lowest compartment on 17 inch height and above four compartments each of 15 inch height.

Illumination with at least one LED light on both ends of every compartment.

Size 77 x 36 x 15 inches size with stand of 5 inches heights

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LED Light in each shelf

ASE-202 Steel Almirah with glass door

Made of steel, fine finished cream colored paint with sliding front unbreakable transparent glass cover. Internal godrej lock with two keys. 20 Gauze sheet and have partitions Painted kota stone of cream / off white color.

Illumination with at least one LED light on both ends of every compartment.

Size H 8' x W 5' x D 1.5'

ASE-204 Dispaly Bos For skelton

Made of Aluminium , fine finished cream colored paint front unbreakable transparent glass cover.

Made of Double Glass both side (Acrylic)
Dust Production Cover.

Illumination with at least one LED light on both ends

Size H 8' x W 5' x D 1.5'

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ASE-124



ASE-125



ASE-125

ASE-124 Autoclave Portable **ALPHA^R**

An essential requirement for general laboratory use, the top cover seals the autoclave with neoprene rubber gasket and is clamped to the lower tank by wing nut closing system. Fitted with pressure gauge upto 20psi, the unit has spring loaded safety valve for pressure adjustment and a dead weight safety valve. It is hydraulically tested upto 40 psi and is supplied with electric fittings, cord and plug to work on 220/230 volts A.C. supply. Supplied complete with tripod stand. **Size 300x300 mm.** Other changes will be done on request or as per user specification.

(a) Made of Aluminium

(b) Made of S.S.

ASE-125 Autoclave Vertical **ALPHA^R**

"Alpha" Electrically heated vertical sterilizer is used for sterilization under saturated steam pressure at any selected point between 5 to 25 p.s.i. (adjustable). The unit is double walled with boiler made of 18 SWG stainless steel 304 Outer cover is made up of Stainless Steel 304 . Lid is made up of Stainless Steel 304 plate and lid tightened by wing nuts / radical locking system (AS ORDERED). Fitted with a gasket made up of neoprene silicon rubber. All "Alpha" Autoclaves are hydraulically tested upto 40 p.s.i. before despatch as a safety measure. Fully automatic digital, microprocessor controlled vertical autoclave, suitable for sterilization under working saturated stream pressure of 15- 20 psi (Adjustable) and temperature of ambient to $\geq 120^{\circ}\text{C}$. Supplied with automatic low water level cut off device

All autoclaves are fitted with water level indicator, pressure gauge, programmable safety valves with all functional accessories. and immersion type **IS-3829 III Heating element (ISI marked)**. The unit is supplied with S.S. 304 basket, cord and plug to work on 230 Volts A.C. Complete with long wire & three pin socket. Other changes will be done on request or as per user specification..

DIA. X DEPTH	LOAD	WING NUT LOCKING	RADIAL LOCKING	OUTER S.S
(a) 250x450 mm.	22 Ltr 1.5KW.			
(b) 300x500 mm.	40 Ltr.2.0KW.			
(c) 350x550 mm.	50 Ltr.3.0KW.			
(d) 400x600 mm.	78 Ltr.4.0KW.			
(e) 450x600 mm.	98 Ltr.4.0KW.			
(f) 500x750 mm.	120 Ltr. 5.0KW.			
(g) 550x750 mm	178 Ltr. 6 KW.			

OPTIONAL ACCESSORIES

- (a) Automatic low water level cut-off device.
- (b) Digital Control .
- (c) Operating Temperature 121°C
- (d) Digital high temperature Safty controller cum indicator which can be set 20°C above-visual alarm.
- (e) Basket made of thick SS wire mesh Rods/SS baskets

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ASE-124



ASE-125

ASE-124 Autoclave Portable ALPHA^R

An essential requirement for general laboratory use, the top cover seals the autoclave with neoprene rubber gasket and is clamped to the lower tank by wing nut closing system. Fitted with pressure gauge upto 20psi, the unit has spring loaded safety valve for pressure adjustment and a dead weight safety valve. It is hydraulically tested upto 40 psi and is supplied with electric fittings, cord and plug to work on 220/230 volts A.C. supply. Supplied complete with tripod stand. **Size 300x300 mm.** Other changes will be done on request or as per user specification.

(a) Made of Aluminium

(b) Made of S.S.

ASE-125 Autoclave Vertical ALPHA^R

"Alpha" Electically heated vertical Automatic adjustable working pressure system. sterilizer is used for sterilization under saturated steam pressure at any selected point between 5 to 25 p.s.i. (adjustable) and temperature of 121°C.

The unit is double walled with boiler made of 18 SWG stainless steel 304 Outer cover is made up of Stainless Steel or mild steel finished in cream enamel. The space between boiler and outer cover is provided with an air insulation. Lid is made up of heavy gauge lid, die pressed Stainless Steel 304 plate and lid tightened by radical locking system . Fitted with a gasket made up of neoprene silicon rubber. All "Alpha" Autoclaves are hydraulically tested upto 40 p.s.i. before despatch as a safety measure. Display Time and temperature LCD Display Alarm Low water level alarm and cut off/ Sensor open alarm.

All autoclaves are fitted with foot lifting arrangement to open lid, programmable, with water level indicator, pressure gauge, steam release cock, spring loaded safety valve and immersion type **Heating element (ISI marked)**. The unit is supplied with Perforated S.S. basket 304, extra 4 rings, cord and plug to work on 220/230 Volts A.C. Complete with long wire & three pin socket. Other changes will be done on request or as per user specification..

DIA. X DEPTH

		LOAD
(a)	250x450 mm.	22 Ltr. 1.5 KW.
(b)	300x500 mm.	40 Ltr. 2.0 KW.
(c)	350x550 mm.	50 Ltr. 3.0 KW.
(d)	400x600 mm.	78 Ltr. 4.0 KW.
(e)	450x600 mm.	100 Ltr. 4.0 KW.
(f)	500x750 mm.	120 Ltr. 5.0 KW.
(g)	550x750 mm	178 Ltr. 6.0 KW.

RADIAL LOCKING OUTER S.S

OPTIONAL ACCESSORIES

- (a) Automatic low water level cut-off device.
- (b) Digital Control .
- (c) Operating Temperature 121°C
- (d) Digital high temperature Safty controller cum indicator which can be set 20°C above-visual alarm.
- (e) Basket made of thick SS wire mesh Rods/SS baskets

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ALPHA[®]

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ASE-126



ASE-126



ASE-128

ASE-126 Autoclave Vertical High Pressure (Triple Walled) (For Dry Sterilization) ALPHA[®]

"Alpha" High Pressure Vertical Steam Sterilizer is used for sterilizing the Loaded material under a steam pressure of 15 to 20 p.s.i. (adjustable). The triple walled/ Double jacketed unit has inner chamber, steam jacket and outer wall made of S.S. duly argon arc welded. The space between outer wall made and steam jacket is filled with high grade glass wool to minimise the temperature loss. All sterilizers are hydraulically tested upto 40p.s.i. The Lid is made of thick Stainless Steel / Gun Metal and closed by wing nut / RADIAL LOCKING type closing arrangement. Fitted with a gasket made upto of neoprene rubber, safety valve, water level indicator, steam release valve and pressure gauge. Supplied complete with cord and plug to work on 220/230 volts A.C. supply. (Unit is supplied without S.S. Basket)Complete with long wire & three pin socket, **Other changes will be done on request or as per user specification..**

Available in following sizes :

DIA. X DEPTH	LOAD	WING NUT LOCKING	RADIAL LOCKING	OUTER S.S.
---------------------	-------------	-------------------------	-----------------------	-------------------

- (a) 250x450 mm. 22 Ltr 1.5KW.
- (b) 300x500 mm. 40 Ltr. 2.0KW.
- (c) 350x550 mm. 50 Ltr. 3.0KW.
- (d) 400x600 mm. 78 Ltr. 4.0KW.
- (e) 450x600 mm. 98 Ltr. 4.0KW.
- (f) 500x750 mm. 120 Ltr. 5.0KW.
- (g) 550x750 mm. 152 Ltr. 5.0KW.

OPTIONAL ACCESSORIES

- (a) Automatic low water level cut-off device.
- (b) Automatic Pressure Control Switch.
- (c) Automatic Timer 0-60 minutes.
- (d) Water Drainage system
- (e) Temperature gauge

ASE-128 Horizontal High Pressure Cylindrical Steam Sterilizer (Triple Walled with Steam Jacket and Separate Boiler)

The inner chamber, steam jacket, outer chamber and boiler are made of heavy gauge stainless steel with leak proof argon arc welding. The radical locking lid is made of thick S.S. plate. All units are hydraulically tested upto 40psi. The space between the outer chamber and steam jacket is filled with asbestos sheet or glass wool to minimise thermal losses.

Steam boiler is fitted with water level indicator, pressure gauge, low water level cut-off device and automatic pressure control device. Hinged self locking S.S. door cannot be opened when under pressure. The self locking door automatically disengages the thread mechanism when in operation or is under pressure. Fitted with a dial thermometer to indicate inner temperature and vacuum breaker to break vaccum in caseof formation of vacuum due to steam condensation. Two seperate valves are provided for evacuating steam from inner chamber and jacket as and when desired. To work on 440 volts, 3 phase A.C. supply.

Available in following sizes.

DIA. X DEPTH	LOAD	SINGLE DOOR AT FRONT	DOUBLE DOOR (FLUSH MOUNTING)
---------------------	-------------	-----------------------------	-------------------------------------

- (a) 400x600 mm. 6.0KW.
- (b) 400x1100 mm. 9.0KW.
- (c) 500x900 mm. 9.0KW.
- (d) 500x1200 mm. 9.0KW.

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ASE-175



ASE-177

ASE-175 Sieve Shaker (Table Top Model) ALPHA[®]

These table top models have a very heavy casted base and are fitted with FHP motor. It can accomodate six sieves of "6 or 8" diameter. The speed can be regulated through a continuously variable speed regulator fitted to the unit. To work on 220/230 volts A.C. supply. Other changes will be done on request or as per user specification..

OPTIONAL ACCESSORIES

- (a) Automatic 0-60 minutes timer.

ASE-176 Gyratory Sieve Shaker (with perfect/motor) ALPHA[®]

As a control on raw materials or on the finished products dry sieve analysis is carried out regularly. Our Gyratory sieve shaker is designed to carry upto 7 sieves of 6" to 8" dia and is 1/4 HP. electric motor through reduction gear. the sieve does not rotate but is inclined from the clockwise direction. In addition to this Gyratory motion of the table, there is an-upward and downward movement ensuring that each square inch of the sieve is utilised. The whole gear mechanism runs in an oil bath. To work on 220/230 volts single phase A.C. supply. Supplied complete with adaptor for 8" sieves but without test sieves. Other changes will be done on request or as per user specification..

OPTIONAL ACCESSORIES

- (a) Adaptor for holding 12" Sieves
(b) Automatic 0-60 minute Timer.

ASE-177 Rotap Sieve Shaker ALPHA[®]

As a control on raw materials or on the finished products dry sieve analysis is carried out regularly. Our Gyratory sieve shaker is designed to carry upto 7 sieves of 6" to 8" dia and is 1/4 HP. electric motor through reduction gear. The whole gear mechanism which gives circular end to end motion runs in an oil bath. The tapping motion is given by the hammer from top. To work on 220/230 volts single phase A.C. Supply. Supplied complete with adaptor for 8" sieves but without test sieves. Other changes will be done on request or as per user specification..

OPTIONAL ACCESSORIES

- (a) Automatic 0-60 minutes Timer.

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ASE-164

ASE-164 Bacteriological Incubator (Memmert Type) *ALPHA[™]*

These are sturdy double walled units outer chamber made of M.S. Sheet duly enamel painted with inner made up of anodized Aluminium or S.S. Sheet. The gap between inner and outer chamber is filled with high graded glass wool to avoid thermal heat loss and outer chamber is fitted with high grade glass wool to avoid thermal losses. The exhaust flap is controlled by Electromechanical control. Work on convection mode which is natural. It have class 3.1 safety device. Beaded heating elements are placed in ribs, at bottom and sides. Inner chamber is provided with ribs for adjustable /removable perforated shelves to convenient height. The door is fitted with full glass viewing window to facilitate inspection of sample without disturbing the test temperature. Temperature is controlled by hydraulic type capillary thermostat from ambient to $100^{\circ}\text{C} \pm 0.5^{\circ}\text{C}$. Temp Uniformity at 37 degree : 0.4 degree 0.05 K, Temp fluctuation at 37 degree : 0.1 degree 0.005 K Time to heat up to 37 degree 57 degree 2 min. Air ventilators are also provided on the sides of the unit. To work on 220/230 volts A.C. Supply. Complete with long wire & three pin socket. Supply. All units are fitted with Air Circulation fan as a standard feature. Complete with long wire & three pin socket. LCD display and system controller. USB port for recording data, 24 point temperature calibration. European CE (UK) certified. Conforms to standards for electrical safety IEC-60601 / IS- 13450 Other changes will be done on request or as per user specification..

Available in following sizes :

INNER CHAMBER SIZE (Wx D x H)	TRAY	CAPACITY	ALMINIUM	S.STEEL
(a) 300x300x300mm.	2	28 ltrs.		
(b) 355x355x355mm.	2	45 ltrs.		
(c) 455x455x455mm.	2	95 ltrs.		
(d) 455x455x605mm.	2	125 ltrs.		
(e) 605x605x605mm.	2	224 ltrs.		
(f) 605x455x910mm.	3	252 ltrs.		
(g) 605x605x910mm.	3	336 ltrs.		

OPTIONAL ACCESSORIES

- (a) Air circulating fan to cost extra.
- (b) Digital Temperature Indicator-cum-controller
(While ordering for an incubator with Digital Controller, air circulating fan is considered compulsory and should be ordered along with it).
- (c) Microprocessor Based Digital Controller.
- (d) Timer (0-24 hours) to cost extra.

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ASE-164

ASE-164 Bacteriological Incubator (Memmert Type) ALPHATM

These are sturdy double walled units outer chamber made of M.S. Sheet duly enamel painted with inner made up of anodized Aluminium or S.S. Sheet. The gap between inner and outer chamber is filled with high graded glass wool to avoid thermal heat loss and outer chamber is fitted with high grade glass wool to avoid thermal losses. The exhaust flap is controlled by Electromechanical control. Work on convection mode which is natural. It have class 3.1 safety device. Beaded heating elements are placed in ribs, at bottom and sides. Inner chamber is provided with ribs for adjustable /removableperforated shelves to convenient height. The door is fitted with full glass viewing window to facilitate inspection of sample without disturbing the test temperature. Temperature is controlled by hydraulic type capillary thermostat from ambient to $100^{\circ}\text{C} \pm 0.5^{\circ}\text{C}$. Temp Uniformity at 37 degree : 0.4 degree 0.05 K, Temp fluctuation at 37 degree : 0.1 degree 0.005 K

Time to heat up to 37 degree 57 degree 2 min. Air ventilators are also provided on the sides of the unit. To work on 220/230 volts A.C. Supply. Complete with long wire & three pin socket. Supply. All units are fitted with Air Circulation fan as a standard feature. Complete with long wire & three pin socket. LCD display and system controller. USB port for recording data, 24 point temperature calibration. European CE (UK) certified. Conforms to standards for electrical safety IEC-60601 / IS- 13450 Other changes will be done on request or as per user specification..

Available in following sizes :

	INNER CHAMBER SIZE (WxDxH)	TRAY	CAPACITY	ALMINIUM	S.STEEL
(a)	300x300x300mm.	2	28 ltrs.		
(b)	355x355x355mm.	2	45 ltrs.		
(c)	455x455x455mm.	2	95 ltrs.		
(d)	455x455x605mm.	2	125 ltrs.		
(e)	605x605x605mm.	2	224 ltrs.		
(f)	605x455x910mm.	3	252 ltrs.		
(g)	605x605x910mm.	3	336 ltrs.		

OPTIONAL ACCESSORIES

- (a) Air circulating fan to cost extra.
- (b) Digital Temperature Indicator-cum-controller
(While ordering for an incubator with Digital Controller, air circulating fan is considered compulsory and should be ordered along with it).
- (c) Microprocessor Based Digital Controller.
- (d) Timer (0-24 hours) to cost extra.

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ASE-164 a

ASE-164 a Bacteriological Incubator (Memmert Type)

These are sturdy double walled glassviewing units outer chamber made of mild steel sheet duly powder coated with inner made up of 304 Grade Stainless Steel Sheet. The gap between inner and outer chamber is filled with high graded 60-70 mm glass wool to avoid thermal heat loss and outer chamber is fitted with high grade glass wool to avoid thermal losses. Beaded Three sided heating elements (Kanthal ISI) are placed in ribs, at bottom and sides. Inner chamber is provided with ribs for adjustable. Synthetic rubber gasket at the door. Nickel plated removable wire mesh tray to convenient height. system have a lockable door and it is fitted with heavy chrome plated hinges, spring roller type latch catch. The System has a touch Screen Display(3.5") system along with data logging when connected to PC. Provides one hard disks for saving data for future use. The door is fitted with toughened glass viewing window to facilitate inspection of sample without disturbing the test temperature. Temperature is controlled by hydraulic type capillary thermostat from ambient to $70^{\circ}\text{C} \pm 2^{\circ}\text{C}$. Air ventilators are also provided on the sides of the unit. To work on 220/230 volts A.C. Supply. Complete with long wire & three pin socket. Supply. All units are fitted with Air Circulation fan as a standard feature. Complete with long wire & three pin socket. Other changes like Microprocessor Based Digital Controller / Digital Temperature controller instead of Digital Temperature Indicator-cum-controller can be installed on requirement, Digital timer (99.59 hr). with Working manual. Other changes will be done on request or as per user specification..

Available in following sizes :

INNER CHAMBER SIZE (WxDxH)	TRAY	CAPACITY	ALMINIUM	S.STEEL
(a) 300x300x300mm.	2	28 ltrs.		
(b) 355x355x355mm.	2	45 ltrs.		
(c) 450x450x450mm.	3	95 ltrs.		
(d) 455x455x605mm.	3	125 ltrs.		
(e) 605x455x605mm.	3	170 ltrs		
(f) 605x605x605mm.	3	224 ltrs.		
(g) 605x455x910mm.	3	252 ltrs.		
(h) 605x605x910mm.	3	336 ltrs.		

OPTIONAL ACCESSORIES

- (a) Air circulating fan to cost extra.
- (b) Digital Temperature Indicator-cum-controller
 - (While ordering for an incubator with Digital Controller, air circulating fan is considered compulsory and should be ordered along with it).
- (c) Microprocessor Based Digital Controller.
- (d) Timer (0-24 hours) to cost extra.

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ASE-164 SS

ASE-164 SS Incubator Bacteriological (Memmert Type) ALPHA[™]

These are sturdy double walled glass viewing units outer chamber made of Stainless steel sheet with inner made up of 304 Grade Stainless Steel Sheet. The gap between inner and outer chamber is filled with high graded glass wool to avoid thermal heat loss and outer chamber is fitted with high grade glass wool to avoid thermal losses. Beaded Three sided heating elements are placed in ribs, at bottom and sides. Inner chamber is provided with ribs for adjustable. The door gasket is made of preferably silicon. Nickel plated removable perforated shelves to convenient height. with a full size inner glass door. Air ventilators are also provided on the sides of the unit. Insulated lockable door with heavy hinges handle. Adjustable safety thermostat for temperature setting at 1 degree C increment and temperature accuracy ambient to $60^{\circ}\text{C} \pm 0.5^{\circ}\text{C}$ of required temperature, with inbuilt temperature sensor. The incubator is capable of accommodating 3 shelves to fit and remove easily. To work on 220/230 volts A.C. Supply. Complete with long wire & three pin socket. Supply. All units are fitted with an Air Circulation fan as a standard feature. Complete with long wire & three pin socket. Controlled by Digital Temp. Controller cum indicator. Digital timer (99.99 hr). with Working manual. Other changes will be done on request or as per user specification.

Available in following sizes :

INNER CHAMBER SIZE (W x D x H)	TRAY	CAPACITY	S.STEEL
(a) 300x300x300mm.	3	28 ltrs.	
(b) 355x355x355mm.	3	45 ltrs.	
(c) 450x450x450mm.	3	95 ltrs.	
(d) 455x455x605mm.	3	125 ltrs.	
(e) 605x455x605mm.	3	170 ltrs	
(f) 605x605x605mm.	3	220 ltrs.	
(g) 605x455x910mm.	3	252 ltrs.	
(h) 605x605x910mm.	3	336 ltrs.	

OPTIONAL ACCESSORIES

- (a) Air circulating fan to cost extra.
- (b) Digital Temperature Indicator-cum-controller
(While ordering for an incubator with Digital Controller, air circulating fan is considered compulsory and should be ordered along with it).
- (c) Microprocessor Based Digital Controller.
- (d) Timer (0-24 hours) to cost extra.

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ASE-155

ASE-155 TRAY DRYING OVEN ALPHA[®]

Most suitable for drying, curing, backing, ageing or heat treatment applications in various laboratories, industries, pharmaceutical units, glassware sterilizing etc. It is a double walled unit mounted on a sturdy angle iron frame. Inner made of stainless steel and outer made up of heavy M.S. Sheet, with outer duly powder coated and Inner with high temperature aluminium paint. The gap between two walls is filled with high grade glass wool to minimize thermal loss. Brackets to support the heavily laden drying trays at adjustable height are provided on the sides of inner walls.

Heating is brought about by air heaters, and each heater is an independent unit which can be easily replaced in event of failure. Temperature range ambient to 250°C controlled Digital Temperaturer Controller-cum Controller with an accuracy of $\pm 5^{\circ}\text{C}$. Ventilation is provided with adjustable opening at the top to exhaust the fumes or vapours produced during processing. Unit is supplied with shelves Half perforated and Half non perforated and extra shelf can be supplied at extra cost. Timer 0-24 Hrs.

A heavy duty driven motor of suitable capacity provided forced air circulation so as to ensure uniform heating throughout the inner chamber. A separate control panel is fitted to the chamber with individual control for ON/OFF, air circulating fan and thermostat. To work 220-230 Volts A.C. Supply only. Other changes will be done on request or as per user specification..

SIZES (W x D x H)	LOAD	TRAY CAPACITY
(a) 43x84x91cm.	5 KW	12
(b) 91x84x91cm.	8 KW	24
(c) 96x127x145cm.	12 KW	48
(d) 96x170x170cm.	22 KW	96

OPTIONAL ACCESSORIES

- (a) Additional Standard Tray of size 800x400x30mm.
- (b) Digital ON/OFF Timer to cost extra

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ASE-145



ASE-146



ASE-147

ASE-145 & 146 Rotary Vacuum Evaporator (Buchi Type) ALPHATM

The apparatus consists of an evaporating flasks rotated by sparking induction motor in a heating water bath. Vacuum distillation of solvent at high and low temperature is achieved quickly and effeciently by use of a speed controller provided, which prevents foaming and bumping of the liquid (solvent) into the evaporating flask and also distillation under controlled atmosphere. The evaporating flask is pear shaped to give a larger surface area of evaporation and is clamped to a las duct through the drive unit and products about 120mm. into the condensor is fitted with standard joint at the top and at the bottom for receiver flask. The unit is fitted with a quick action jack. Complete with long wire & three pin socket. Other changes will be done on request or as per user specification..

Available in CAPACITY

- (a) 1 Ltr.
- (b) 3 Ltr.
- (c) 5 Ltr.
- (d) 10 Ltr.

OPTIONAL ACCESORIES

- (a) thermostatic water bath
- (b) -do- but Digital model
- (c) Vacuum Pump(single stage)
- (d) Tubular stand with base providing the complete unit a compact look rigidity and table top height

ASE-147 Vortex Shaker (Test Tube Shaker) ALPHATM

Useful for stirring centrifugal tubes, test . Provides vigorous mixing action by rotation of the contained liquid. The instrument consists of a vertically mounted motor with a Neoprene rubber cup mounted eccentrically on the shaft against which at its tip is help the tube with its lower end pressing against the cup. Mixing action is controlled by varying the angle and pressure of the tube against the cup. Vacuum rubbers at bottom prevents the machine from walking. Fitted with speed control arrangement. To work on 220/230 volts A.C. Supply. Complete with long wire & three pin socket. Other changes will be done on request or as per user specification..

- (a) With ON/OFF Switch.
- (b) With touch ON/OFF plate type.

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Nortified



ASE-145



ASE-146



ASE-147

ASE-145 & 146 Rotary Vacuum Evaporator (Buchi Type) ALPHA^R

The apparatus consists of an evaporating flasks rotated by sparking induction motor in a heating water bath. Vacuum distillation of solvent at high and low temperature is achieved quickly and effeciently by use of a speed controller provided, which prevents foaming and bumping of the liquid (solvent) into the evaporating flask and also distillation under controlled atmosphere. The evaporating flask is pear shaped to give a larger surface area of evaporation and is clamped to a las duct through the drive unit and products about 120mm. into the condensor is fitted with standard joint at the top and at the bottom for receiver flask. The unit is fitted with a quick action jack. Complete with long wire & three pin socket. Other changes will be done on request or as per user specification..

Available in CAPACITY

- (a) 1 Ltr.
- (b) 3 Ltr.
- (c) 5 Ltr.
- (d) 10 Ltr.

OPTIONAL ACCESORIES

- (a) thermostatic water bath
- (b) -do- but Digital model
- (c) Vacuum Pump(single stage)
- (d) Tubular stand with base providing the complete unit a compact look rigidity and table top height

ASE-147 Vortex Shaker (Test Tube Shaker) ALPHA^R

Useful for stirring centrifugal tubes, test, small flasks, micro centrifuge tubes and plates etc . Provides vigorous mixing action by rotation of the contained liquid. Mixing speed variable from 200 rpm for very gentle mixing to 3000rpm for vigorous agitation. Options to choose between touch/intermittent mode and continuous operation simply by pressing a button onthe facia. To have Stable low profile body with Robust die cast construction. The instrument consists of a vertically mounted motor with a Neoprene rubber cup mounted eccentrically on the shaft against which at its tip is help the tube with its lower end pressing against the cup. Mixing action is controlled by varying the angle and pressure of the tube against the cup. Vacuum rubbers at bottom prevents the machine from walking. Fitted with speed control arrangement. To work on 220/230 volts A.C. Supply. Complete with long wire & three pin socket.

Spares accessories a attachments for tubes from particular range
(eg-1.5 ml) to another range (eg-50ml)

Other changes will be done on request or as per user specification..

- (a) With ON/OFF Switch.
- (b) With touch ON/OFF plate type.

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ASE-145



ASE-146



ASE-147

ASE-145 & 146 Rotary Vacuum Evaporator (Buchi Type) *ALPHATM*

The apparatus consists of an evaporating flasks rotated by sparking induction motor in a heating water bath. Vacuum distillation of solvent at high and low temperature is achieved quickly and efficiently by use of a speed controller provided, which prevents foaming and bumping of the liquid (solvent) into the evaporating flask and also distillation under controlled atmosphere. The evaporating flask is pear shaped to give a larger surface area of evaporation and is clamped to a gas duct through the drive unit and products about 120mm. into the condenser is fitted with standard joint at the top and at the bottom for receiver flask. The unit is fitted with a quick action jack. Complete with long wire & three pin socket. *Other changes will be done on request or as per user specification..*

Available in CAPACITY

- (a) 1 Ltr.
- (b) 3 Ltr.
- (c) 5 Ltr.
- (d) 10 Ltr.

OPTIONAL ACCESORIES

- (a) thermostatic water bath
- (b) -do- but Digital model
- (c) Vacuum Pump(single stage)
- (d) Tubular stand with base providing the complete unit a compact look rigidity and table top height

ASE-147 Vortex Mixer (Test Tube Shaker) *ALPHATM*

Useful for stirring centrifugal tubes, test . Provides vigorous mixing action by rotation of the contained liquid. The instrument consists of a vertically mounted motor with a Neoprene rubber cup mounted eccentrically on the shaft against which at its tip is held the tube with its lower end pressing against the cup. Vortex is a general purpose mixer to meet your varied laboratory needs. It has three position switches to allow a range of applications, from gentle sample mixing to resuspending cell pellets. The instruments can operate continuously or by touch activation. It has a heavy duty mixer equipped with rubber feet to avoid sliding even at maximum speed. Vortex supplied with the general purpose cup attachment. For mixing larger volumes, use the flathead dimpled adaptor. Speed range 0-3000rpm. Operating modes continuous operation or touch control. Temperature range 4-65°C Dimensions (W x D x H) 12 x 16 x 13 cm. Fitted with speed control arrangement. To work on 220/230 volts A.C. Supply. Complete with long wire & three pin socket.

Other changes will be done on request or as per user specification..

- (a) With ON/OFF Switch.
- (b) With touch ON/OFF plate type.

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ASE-156



ASE-157



ASE-158

ASE-156 Water Bath Rectangular Thermostatic (Double Walled)

ALPHA^R

It is a double walled bath with inner chamber made of stainless steel and outer wall of M.S. Sheet duly enamel painted. The gap between outer and inner walls is filled with special grade glass wool in order to avoid thermal losses. A drain plug is also fitted to the unit. The inner chamber fitted with immersion type heating element is covered with perforated removable diffuser tray. Top cover is provided with the unit as a standard accessory. Temperature from ambient to 100°C is controlled by hydraulic capillary type thermostat with an accuracy of ± 0.5°C. Complete with long wire & three pin socket. **Other changes will be done on request or as per user specification..**

Available in following sizes :

- (a) 300x250x100mm. (6 Holes of 75mm. dia.)
- (b) 355x405x100mm. (12 Holes of 75mm. dia.)

ASE-157 Water Bath Rectangular (Single Wall)

ALPHA^R

Made out of heavy gauge stainless steel with concentric rings. Auto-cut heating elements are fitted to protect the same when bath gas dry. To work on 220/230 volts A.C. Supply. Complete with long wire & three pin socket. **Other changes will be done on request or as per user specification..**

Available in following sizes :

- (a) 300x250x100mm. (6 Holes of 75mm. dia.)
- (b) 355x405x100mm. (12 Holes of 75mm. dia.)

ASE-158 Serological Water Bath

ALPHA^R

These unit are double walled with inner chamber made up of stainless steel and outside of mild steel/SS duly Powder coted. The gap between the walls is filled with special grade glass wool in order to avoid thermal losses. A drain plug is also fitted to the unit. The inner chamber fitted with immersion type heating element is covered with perforated removable diffuser tray. Top cover plain/gable is provided with the unit as a standard accessory.

Temperature from ambient to 100°C is controlled by hydraulic capillary type thermostat with an accuracy of ± 0.5°C. Supplied complete with 220/230 volts A.C. Supply. Complete with long wire & three pin socket. **Other changes will be done on request or as per user specification..**

Available in following sizes :

	WIDTH x HEIGHT x DEPTH	LOAD
(a)	300x250x175mm. (for 2 racks)	1.0 KW
(b)	330x300x175mm. (for 4 racks)	1.5 KW
(c)	455x300x175mm. (for 6 racks)	2.0 KW
(d)	605x300x175mm. (for 8 racks)	3.0 KW

OPTIONAL ACCESSORIES FOR CAT. No. ASE-156,157,158

- (a) Stirrer with 1/20 H.P. High speed motor with S.S. Rod and blade.
- (b) Digital Temperature Indicator-cum-Controller.
- (c) Microprocessor Based Digital Controller.

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ASE-159



ASE-160

ASE-159 High Precision Water Bath (With Stirring Arrangement) ALPHA[®]

Most suitable for all laboratory applications requiring constant temperature to a high degree of accuracy upto $\pm 0.1^{\circ}\text{C}$. Double walled chamber had inner made up of thick stainless steel and outer wall is of thick PCRC sheet duly enamel painted. The gap between the two walls is filled by high grade glass wool to minimize thermal losses and thus ensure constant temperature. A glass window is provided on the front side for an easy inside view. A high speed stirrer-with a motor of 1/20 H.P. is fitted to the unit for continuous stirring and thus maintaining a uniform temperature throughout. A speed regulator is provided on the front panel to control speed of the stirrer. The heating mechanism comprises of set o heaters pertaining to faster and slower heating.A mercury contact thermometer controls the temperature with a sensitivity of $\pm 0.10\text{C}$. To work on 220/230 volts A.C. Supply.Complete with long wire & three pin socket.Other changes will be done on request or as per user specification..

WITH Stirring Arrangement

ASE-160 Constant temperature water bath ALPHA[®]

These unit are double walled have glass window on both opposite side with inner chamber made up of Corrosion free Stainless steel and outside of mild steel duly Powder coted. The gap between the walls is filled with special grade glass wool in order to avoid thermal losses. A drain plug is also fitted to the unit. The inner chamber fitted with immersion type heating element is covered with perforated removable diffuser tray. Top cover plain/gable is provided with the unit as a standard accessory. supplied with stirrer. Temperature from ambient to 100°C is controlled by hydraulic capillary type thermostat with an accuracy of $\pm 0.5^{\circ}\text{C}$. Supplied complete with 220/230 volts A.C. Supply.Complete with long wire & three pin socket. Other changes will be done on request or as per user specification..

Available in following sizes :

	WIDTH x HEIGHT x DEPTH	LOAD
(a)	300x250x175mm. (for 2 racks)	1.0 KW
(b)	330x300x175mm. (for 4 racks)	1.5 KW
(c)	455x300x250mm. (for 6 racks)	2.0 KW
(d)	605x300x250mm. (for 8 racks)	3.0 KW

OPTIONAL ACCESSORIES FOR CAT. No. ASE-159 & 160

- (a) Stirrer with 1/20 H.P. High speed motor with S.S. Rod and blade.
- (b) Digital Temperature Indicator-cum-Controller.
- (c) Microprocessor Based Digital Controller.

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ASE-188



ASE-189



ASE-190



ASE-192

ASE-188 Rectangular Hot Plate (With Cast Iron Top) *ALPHATM*

This is very useful for continuous heating upto 350°C. The body is made of specially designed perforated P.C.R.C. sheet painted with attractive stove enamel. The rectangular Cost Iron Plate has insulated elements. To work on 220/230 volts A.C. Complete with long wire & three pin socket, *Other changes will be done on request or as per user specification..*

SIZE (BXLXH)	RATING	With two tumber Switch	with energy Regulator	With thermostate
(a)25x30x15cm (10"x12"x18")	1.2 KW			
(b)25x40x15cm (10"x16"x6")	1.5 KW			
(c)30x45x15cm (12"x18"x6")	2.0 KW			
(d)455x605x15cm (18"x24"x6")	3.0 KW			

OPTIONAL ACCESSORIES

- (a)Pyrometer (Moving Coil Type) with thermocouple for temperature indication
- (b)Solid State Electronic Digital Temperature indicator-cum-controller

ASE-189 Rectangular Hot Plate (With S.S. Top) *ALPHATM*

It is a DELUXE model with thick stainless steel plate, duly organ arc welded at sides, forming the top platform for continuous heating upto 370°C. Body is made out of thick M.S. sheet duly painted. The top S.S. plate has insulated elements throughout, so as to give uniform temperature all along the plate. Temperature is controlled by Solid State Electronic Digital Temperature indicator-cum-controller or PID microprocessor. To work on 220/230 volts A.C. Complete with long wire & three pin socket, *Other changes will be done on request or as per user specification..*

SIZE (BXLXH)	RATING	S.STEEL TOP
(a) 25x30x15cm.	1.2 KW	
(b) 25x40x15cm.	1.5 KW	
(c) 30x45x15cm	2.0 KW	
(d) 45x60x15cm.	3.0 KW	

OPTIONAL ACCESSORIES

- (a) Pyrometer with thermocouple
- (b) Solid State Digital Temperature Indicator-cum-Controller.

ASE-190 Hot Plate Round (With Cast Iron Top) or Hot Plate Round Coil Type *ALPHATM*

The body is made of P.C.R.C. sheet duly painted with attractive stove enamel. The top iron heating plate is round having 20 cm. dia, with heating elements ISI of 1.5 KW rating. Temperature is controlled by energy regulator upto 350°C. Complete with long wire & three pin socket, *Other changes will be done on request or as per user specification..*

- (a) Single Plate with energy regulators.
- (b) Double Plate with individual energy regulators.

ASE-192 Melting Point Apparatus *ALPHATM*

For determination of single or mixed points upto 350°C. The apparatus consists of a cylindrical block of aluminium with a built in electric heating element. The mounted block is illuminated from below by a lamp fixed in its housing. The aluminium block accept three capillary tubes and mercury thermometer. The temperature is regulated by energy regulator fitted to the unit. The lamp provides uniform and shadowless illumination of the sample tubes which are viewed through the adjustable magnifying lens. The apparatus is fitted with pilot lamp ON/OFF switch, cord and plug but without capillary tubes thermometer.*Other changes will be done on request or as per user specification..*

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ASE-188



ASE-189



ASE-190

ASE-188 Rectangular Hot Plate (With Cast Iron Top) ALPHA[®]

This is very useful for continuous heating upto 350°C. The body is made of specially designed perforated P.C.R.C. sheet painted with attractive stove enamel. The rectangular Cost Iron Plate has insulated elements. To work on 220/230 volts A.C. Complete with long wire & three pin socket, **Other changes will be done on request or as per user specification..**

SIZE (BXLXH)	RATING	With two tumber Switch	with energy Regulator	With thermostate
(a)25x30x15cm (10"x12"x18")	1.2 KW			
(b)25x40x15cm (10"x16"x6")	1.5 KW			
(c)30x45x15cm (12"x18"x6")	2.0 KW			
(d)455x605x15cm (18"x24"x6")	3.0 KW			

OPTIONAL ACCESSORIES

- (a)Pyrometer (Moving Coil Type) with thermocouple for temperature indication
- (b)Solid State Electronic Digital Temperature indicator-cum-controller

ASE-189 Rectangular Hot Air Cover Drying Slides (With S.S. Top) ALPHA[®]

It is a DELUXE model with thick stainless steel plate, duly organ arc welded at sides, forming the top platform for continuous heating upto 450°C. Body is made out of thick M.S. sheet epoxy coated. The top S.S. plate has insulated elements throughout, so as to give uniform temperature all along the plate. Temperature is controlled by Solid State Electronic Digital Temperature indicator-cum-controller or PID microprocessor or Thermostat. To work on 220/230 volts A.C. Complete with long wire & three pin socket, **Other changes will be done on request or as per user specification..**

SIZE (BXLXH)	RATING	S.STEEL TOP
(a) 25x30x15cm.	1.2 KW	
(b) 25x40x15cm.	1.5 KW	
(c) 30x45x15cm	2.0 KW	
(d) 45x60x15cm.	3.0 KW	

OPTIONAL ACCESSORIES

- (a) Pyrometer with thermocouple
- (b) Solid State Digital Temperature Indicator-cum-Controller.

ASE-190 Hot Plate Round (With Cast Iron Top) or Hot Plate Round Coil Type ALPHA[®]

The body is made of P.C.R.C. sheet duly painted with attractive stove enamel. The top iron heating plate is round having 20 cm. dia, with heating elements ISI of 1.5 KW rating. Temperature is controlled by energy regulator upto 350°C. Complete with long wire & three pin socket, **Other changes will be done on request or as per user specification..**

- (a) Single Plate with energy regulators.
- (b) Double Plate with individual energy regulators.

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ASE-188



ASE-189



ASE-190

ASE-188 RECTANGULAR HOT PLATE (WITH CAST IRON TOP) ALPHA[®]

This is very useful for continuous heating upto 350°C. The body is made of specially designed perforated P.C.R.C. sheet painted with attractive stove enamel. The rectangular Cost Iron Plate has insulated elements. To work on 220/230 volts A.C. Complete with long wire & three pin socket, **Other changes will be done on request or as per user specification..**

SIZE (BXLXH)	RATING	With two tumber Switch	with energy Regulator	With thermostate
(a)25x30x15cm (10"x12"x18")	1.2 KW			
(b)25x40x15cm (10"x16"x6")	1.5 KW			
(c)30x45x15cm (12"x18"x6")	2.0 KW			
(d)455x605x15cm (18"x24"x6")	3.0 KW			

OPTIONAL ACCESSORIES

- (a)Pyrometer (Moving Coil Type) with thermocouple for temperature indication
- (b)Solid State Electronic Digital Temperature indicator-cum-controller

ASE-189 RECTANGULAR HOT PLATE (WITH S.S. TOP) ALPHA[®]

It is a DELUXE model with thick stainless steel plate, duly organ arc welded at sides, forming the top platform for continuous heating upto 370°C. Body is made out of thick M.S. sheet duly painted. The top S.S. plate has insulated elements throughout, so as to give uniform temperature all along the plate. Temperature is controlled by Solid State Electronic Digital Temperature indicator-cum-controller or PID microprocessor. To work on 220/230 volts A.C. Complete with long wire & three pin socket, **Other changes will be done on request or as per user specification..**

SIZE (BXLXH)	RATING	S.STEEL TOP
(a) 25x30x15cm.	1.2 KW	
(b) 25x40x15cm.	1.5 KW	
(c) 30x45x15cm	2.0 KW	
(d) 45x60x15cm.	3.0 KW	

OPTIONAL ACCESSORIES

- (a) Pyrometer with thermocouple
- (b) Solid State Digital Temperature Indicator-cum-Controller.

ASE-190 DRY HEATER BLOCK ALPHA[®]

The built-in unique Digital PID microprocessor with digital temperature set and easy-to-read LED display for accurate and reproducible temperature control. can provide precise temperature control for a variety of biochemical experiments.

Temperature range ambient to 130 degrees Celsius with temp. Uniformity $\pm 0.5^{\circ}\text{C}$ with thermostat.

Size 12"x9"x6" (L,W,H); System include holes in the Blocks for housing 2 ml GC vials (at least 20 places)

Read thermometer and adjust knob controller to desires set point Voltage 220-240 V.**Other changes will be done on request or as per user specification..**

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ASE-141



ASE-142



ASE-143

ASE-141 Water Still (Wall Mounted) ALPHATM

The unit is recommended for making pyrogen free distilled water of a very high degree of purity. Made out of stainless steel, special kettle element is fitted with Ejection Device/Auto Cut for safety of the element in case water supply is stopped. The cock fitted to the unit is of brass C.P. Distillation with or without FLANGE SYSTEM can be supplied. Unit with flange system can be opened for clearing of condenser from time to time so as to ensure its long life. A Wall mounting clamp is provided with the unit but without rubber tubing. Supplied with cord and plug to work on 220/230 volts A.C. supply Available in capacities of approximately : **Other changes can be done on request or as per user specification..**

CAPACITY	WITHOUT FLANGE	WITH FLANGE
(a) 2 Ltr (b) 4 Ltr		
(c) 6 Ltr (d) 8 Ltr.		

ASE-142 Distillation Apparatus All Glass (Electrically Heated) ALPHATM

The assembly consists of a corning glass flask with embedded heating elements fused in spiral type coil internally at bottom. A double wall coiled condenser has standard ground glass joints. Complete with glass fitting, metallic stand, rings, clamps and electrical fittings. The unit supplied is as per NPL patent design. To work on 220/230 volts A.C. supply.**Other changes can be done on request or as per user specification..**

CAPACITY	SINGLE STAGE	DOUBLE STAGE	TRIPLE STAGE
(a) 3 LITRES b) 5 LITRES			
(c) 10 LITRES			

ASE-143 Water Still (Table Pattern-Barnstead Type) ALPHATM

Benchtop model to produce highly treated & disinfected water for laboratory uses. Condenser and top should also be made of stainless steel.SS-304 grade Argon Arc Welded. Supplied with the rubber tubing coil of 5 meters. Supplied with cord & plug to work on 220/230 volts AC supply. automatic cut off . Suitable for Organic, Inorganic, Gaseous, Bacterial & Pyrogenic free distillation. Double walled construction with inner and outer chamber made of stainless steel, the gap in between being filled with glass wool. The condenser and top are also made of stainless steel. The raw water is first made to pass around the tubes in the condenser where it gets heated nearly to the boiling point thus economizing the heating energy. The heated water passes to the evaporator through a water level maintaining pipe. Excess water is let out through the drain. To work on 220/230 volts A.C. Supply. Available in various capacities. **Other changes can be done on request or as per user specification..**

CAPACITY	RATING	FLANGE TYPE
(a) 4 Ltrs/Hr.	2.0KW	
(b) 6 Ltrs/Hr.	3.0KW	
(c) 10 Ltrs/Hr.	5.0KW	
(d) 15 Ltrs/Hr.	6.0KW	
(e) 20 Ltrs/Hr.	8.0KW	

OPTIONAL ACCESSORIES For Cat. No. ASE-141,142,143

(a) Automatic water cut off device case water supply is stopped. This is a solid state transistorised device which automatically keeps watch on regular supply of water in the flask and keeps the heaters ON only when the water supply is normal. It automatically cuts OFF the supply of heaters from the mains when the water supply gets disturbed and thus prevents the burning of heating element/melting of glass coil. Heaters would automatically be switched ON when the water supply comes to normal.**Other changes will be done on request or as per user specification..**

(b) Special grade rubber tubing for connections (Coil of 10 meters)

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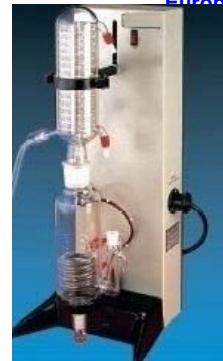
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ASE-144

ASE-141 Water Still (Wall Mounted) **ALPHATM**

The unit is recommended for making pyrogen free distilled water of a very high degree of purity. Made out of stainless steel, special kettle element is fitted with Ejection Device/Auto Cut for safety of the element in case water supply is stopped. The cock fitted to the unit is of bras C.P. Distillation with or without FLANGE SYSTEM can be supplied. Unit with flange system can be opened for clearing of condensor from time to time so as to ensure its long life. A Wall mounting clamp is provided with the unit but without rubber tubing. Supplied with cord and plug to work on 220/230 volts A.C. supply Available in capacities of approximately : **Other changes can be done on request or as per user specification..**

CAPACITY

WITHOUT FLANGE

WITH FLANGE

- (a) 2 Ltr (b) 4 Ltr
(c) 6 Ltr (d) 8 Ltr.

ASE-142 Distillation Apparatus All Glass (Electrically Heated) **ALPHATM**

The assembly consists of a corning glass flask 5 Ltr with embedded heating elements fused in spiral type coil internally at bottom. A double wall coiled condenser has standard ground glass joints. Complete with glass fitting, metallic stand, rings, clamps and electrical fittings. The unit supplied is as per NPL patent design. To work on 220/230 volts A.C. supply. **Other changes can be done on request or as per user specification..**

CAPACITY

SINGLE STAGE

DOUBLE STAGE

TRIPLE STAGE

- (a) 2 LITRES
(b) 5 LITRES
(c) 10 LITRES

ASE-144 Quartz Water Distillation Unit **ALPHATM**

A water distiller works by boiling water into water vapour, condensing it and then returning it to its liquid state. It is collected in a storage container. Single stage distillation unit. High purity low conductivity pyrogen free distillate.

The process occurs in several steps:

Municipal or well water is manually or automatically fed into the distiller unit's boiling chamber.

A heating element in the boiling chamber heats the water until it boils.

The steam rises from the boiling chamber. Volatile contaminants (gases) are discharged through a built-in vent. Minerals and salts are retained in the boiling chamber as hard deposits or scale.

Automatically fed facility into the distiller unit's boiling chamber

The steam enters a coiled tube (condenser), which is cooled by cool water.

Water droplets form as condensation occurs.

Compact design made by ss 304 material with dual safety cutout

The distilled water is collected in a storage tank. If the unit is an automatic model, it is set to operate to fill the storage tank.

CAPACITY (a) 1 Ltr (b) 1.5 Ltr (c) 2.5 Ltr (d) 5 Ltr.

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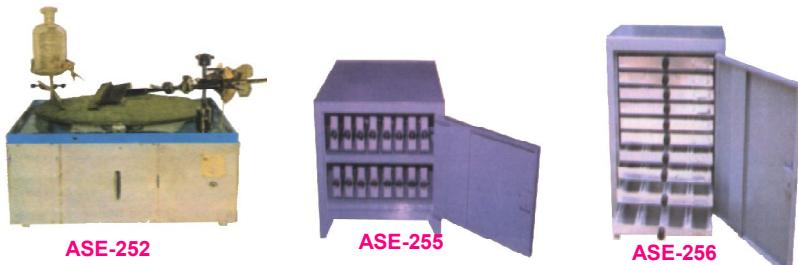
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ASE-252 Automatic knife sharpner (Arthur thomas type) **ALPHATM**

The unit is fitted with asseembly for perfect cutting edge of the knife of any size upto 300m.m. Automatic reversing of the knife takes place at regular intervals for equal bevel angle on both sides of its edge, and the shrpening process is across the full diameter of the rotating plate. The plate is rotated at a constant speed by " AUE " / CROMPTION " 1/4 H.P. motor. A lubricant resorvoir with clamp needed for grinding and polishing is supported on the top. The ground glass plate is of size 50 m.m (dia) x 12 m.m. (Thick). A metal seale graduated from 0 to 25 degrees in 1 degrees in 1 degrees division indicates the exact angle between with dust cover and cord and plug to operate on 220/230V A.C. fitted with " GERMAN " Timer **Other changes will be done on request or as per user specification..**

(b) - do - Some as above but Mini Model with 12" dia. glass plate.

Optional Accessories

- (a) Micro Abrasive (Set of two bottles of 200 gms each)
- (b) Spare glass plate
- (c) Spare knife hoder

ASE-255 Microslide cabinet (Closed pack Manner) **ALPHATM**

For storing 3" x 1" slides in vertical position one after other in a closed pack manner. Made of thick CRC steel sheet duly powder coated. Each drawsize 480mm x 75mm draws and it take slides in vertical position. Each drawer moves in a slot and is removable for easy lifting. Complete with lock and key with quality caster wheel for easy movement. **Other changes will be done on request or as per user specification..**

CAPACITY	5000	slides
	10000	slides
	20000	slides
	25000	slides
	50000	slides

ASE-256 Microslide cabinet (Horizontal manner) **ALPHATM**

This mild steel strong cabinet, duly painted is most suitable for strong of 3" x 1" slides in horizontal manner. Each drawer is fitted with handle, lock and key with quality caster wheel for easy movement. **Other changes will be done on request or as per user specification..**

CAPACITY	1000	slides
	2000	slides
	3000	slides
	5000	slides
	10000	slides
	20000	slides
	50000	slides

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ASE-120



ASE-121

ASE-120 Vacuum Oven ALPHA[®]

These are double walled units with outer made of M.S. Sheets with toughened glass door duly powder coated painted and inner made up of heavy gauge 304 stainless steel sheet. Gap between the two walls is duly filled with high grade glass wool to avoid thermal loss. Heating element are made of high quality Nichrome/Kendal wire are embedded around the chamber. Provided with Door Gasket for proper sealing.

Fitted with heavy hinges & door closing devices. Temperature range from 50°C to 130°C is controlled by Microprocessor Based PID electronic digital temperature indicator cum controller with an accuracy $\pm .1^{\circ}\text{C}$. It is capable of with standing a vacuum of 760 mm. of mercury. Provided with 1-2 No. of SS trays , vacuum gauge, see through transparent window of toughened glass, one shelf and Provided with Door Gasket for proper sealing. Supplied with vacuum pump. To work on 220/230 Volts A.C. Supply. Other changes will be done on request or as per user specification..

Available Sizes (Dia.xDepth) :

INNER SIZE (HT X DIA X DEPTH)

WITHOUT PUMP WITH VACUUM PUMP

- (a) 200x200x200mm.
- (b) 250x250x250mm
- (c) 250x300x300mm.
- (d) 400x300x300mm
- (e) 400x300x450mm.

OPTIONAL ACCESSORIES

(a) Digital Temperature Indicator com controller

ASE-121 VACUUM PUMP OIL FREE ALPHA[®]

"ALPHA" Vacuum pump suitable for pressure filtration, solid phase extraction processes
Include compatible pressure gauge, valve and regulator

It include PVDF-coated aluminium, stainless steel (SS), or Ryton PPS heads with PTFE, Kalrez valves and have Molded PTFE diaphragm. Oil-free, Single stage models creates maximum vacuum upto 0.01mm of Hg. column., quiet operation and maintenance-free. To work on 220/230 volts A.C. supply. Include PTFE diaphrage Other changes will be done on request or as per user specification.

Optional Accessories

(a) Moisture Trap (b) Vacumm Gauge with requlqtor (c) Non Return Valve

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ASE-120



ASE-122



ASE-120 VACUUM PUMP OIL FREE

"ALPHA" Vacuum pump suitable for pressure filtration, solid phase extraction processes

Include compatible pressure gauge, valve and regulator

It include PVDF-coated aluminium, stainless steel (SS), or Ryton PPS heads with PTFE, Kalrez valves and have Molded PTFE diaphragm. Oil-free, Single stage models creates maximum vacuum upto 0.01mm of Hg. column., quiet operation and maintenance-free. To work on 220/230 volts A.C. supply. Include PTFE diaphragme **Other changes will be done on request or as per user specification.**

ASE-122 ROTARY VACUUM PUMP

"ALPHA" vacuum pumps are mounted on a heavy steel base plate, and have a wide range of oil sealed pumps. Fitted with heavy duty electric motor, all pumps are V-Belt driven at a speed of 400 RPM. Pumps are fabricated out of high grade cast iron and are worked on sophisticated machines to give accuracy in microns, thus leading to very high sustained vacuum. Supplied in single stage or double stage models. Single stage models creates maximum vacuum upto 0.01mm of Hg. column. Double stage models creates vacuum upto 0.001mm. Hg. Column. As a safety device all "ALPHA" vacuum pumps are fitted with belt guard as a standard feature. To work on 220/230 volts A.C. supply. **Other changes will be done on request or as per user specification.**

	CAPACITY	MOTOR	SINGLE STAGE	DOUBLE STAGE
(a)	25 Ltrs/Min	0.25 H.P.		
(b)	45 Ltrs/Min	0.25 H.P.		
(c)	75 Ltrs/Min	0.25 H.P.		
(d)	100 Ltrs/Min	0.50 H.P.		
(e)	150 Ltrs/Min	0.50 H.P.		
(f)	200 Ltrs/Min	1.00 H.P.		
(g)	300 Ltrs/Min	1.00 H.P.		

Optional Accessories

- (a) Moisture Trap (b) Vacuum Gauge with regulator (c) Non Return Valve

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40 ASE-255



ASE-256



ASE-258

ASE-255 Microslide cabinet (Closed pack Manner)

For storing 3" x 1" slides in vertical position one after other in a closed pack manner. Made of thick steel sheet duly painted. Each drawer moves in a slot and is removable for easy lifting. Complete with lock and key with quality caster wheel for easy movement. **Other changes will be done on request or as per user specification..**

CAPACITY	
2000	slides
5000	slides
10000	slides
20000	slides
25000	slides
50000	slides
100000	slides

ASE-256 Microslide cabinet (Horizontal manner)

This mild steel strong cabinet, duly painted is most suitable for strong of 3" x 1" slides in horizontal manner. Each drawer is fitted with handle, lock and key with quality caster wheel for easy movement. **Other changes will be done on request or as per user specification..**

CAPACITY	
1000	slides
2000	slides
3000	slides
5000	slides
10000	slides
20000	slides
50000	slides

ASE-258 Block cabinet (Horizontal manner)

This mild steel strong cabinet, duly painted is most suitable for strong of 16"x16"x1.5 mm drawer in horizontal manner. Each drawer is fitted with handle, lock and key with quality caster wheel for easy movement.

Other changes can be done on request or as per user specification..

CAPACITY 100 drawers total capacity of block 25000 nos

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ASE-134

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ASE-135



ASE-137

ASE-134 Horizontal Laminar Flow Cabinet **ALPHA^R**

"ALPHA" Horizontal Laminar Flow Cabinets are designed so as to meet the requirements of US Federal Standard 209 B (BS 5295) providing particle free air to meet class 100 (Class I) conditions. The cabinets are fabricated out of thick board duly sunmica clad / PCRC MS sheet Epoxy Paint / Stainless Steel 304 grade. Interior surfaces are epoxy painted for its longer life. The work table is made of thick board which is sunmica clad / Stainless Steel at top. Side panels are made out of thick board which is sunmica clad / PCRC MS sheet Epoxy Paint / Stainless Steel at top. Side panels are made out of thick transparent plexi glass duly framed. The unit is fitted with pre-filter and HEPA Filter. Air is drawn through pre-filter and is made to pass through highly effective HEPA (High Efficiency Particular Air) filters having efficiency rating as high as 99.99% with cold DOP and 99.97% with hot DOP, thus retaining all airborne particles of size 0.2 / 0.3 micron and larger. Air flow 90+20% fmp laminar. Using a dynamic balancing machine, the blower and motor assembly is statically and dynamically balanced. Motor of 1/4 H.P. capacity operates with minimum noise level. The working area is illuminated by fluorescent lighting fitted to the unit. To work on 220/230 volts A.C. (single phase) Supply. Providing : Unit with acrylic side & front panels and detachable, Cock for gas and vacuum line, Provisions for UV and fluorescent light in the chamber, Washable synthetic non woven prefilters , Motor blower assemblies mount on the vibration mounts for minimum vibration i.e.0.0001 average displacement on work table, and noise level less than 65 db on 'A' scale at work table edge. Available in Standard and Deluxe Models. Other changes will be done on request or as per user specification..

Available in following models : In Complete Stainless Steel or Wooden board with sunmica clad as per demand

Model	LH-22	LH-32	LH-42	LH-62	LH-82
Working Area	2'x2'x2'	3'x2'x2'	4'x2'x2'	6'x2'x2'	8'x2'x2'
Size of HEPA Filter	2'x2'x6"	3'x2'x6"	4'x2'x6"	3'x2'x6"	4'x2'x6"
No. of HEPA Filter	1	1	1	2	2
illumination	1x20W	1x20W	2x40W	2x40W	4x40W

ASE-135 Innoculation Chamber or UV Lamp with cabinet **ALPHA^R** Complete S.Steel or Wooden as per demand

Meant of seasoned teak wood with thick ply-board on top & bottom and plywood on back. Thick non-atting glass provided on two sides and front slanting glass door. Front side slanting paroived with openable glass door for convenient view of the specimens placed inside. Lower portion is provided with glove ports

Other changes will be done on request or as per user specification.

(a) Outsite Size : 40" x 24" x 22" (b) Outsite Size : 27" x 20" x 16" (c) Outsite Size : 24" x 24" x 24"

ASE-137 Vertical Laminar Air Flow System **ALPHA^R**

Details same as **ASE-134** But with laminar air flowing down vertically from top towards the work table. Supplied complete with Static Finish S.S. Table Top Transparent front door (5 mm) Static Pressure manometer, Built in U.V germicidal light and cock for gas, air or vacuum line. Other changes will be done on request or as per user specification..

Model	LH-22	LH-32	LH-42	LH-62	LH-82
Working Area	2'x2'x2'	3'x2'x2'	4'x2'x2'	6'x2'x2'	8'x2'x2'
Size of HEPA Filter	2'x2'x6"	3'x2'x6"	4'x2'x6"	3'x2'x6"	4'x2'x6"

Available in following sizes : Complete S.Steel or Wooden as per demand

Model	OLF-32	OLF-34	OLF-36	OLF-38	OLF-42	OLF-62	OLF-82
HEPA Area	3'x2'	3'x4'	3'x6'	3'x6'	4'x2'	6'x2'	6'x2'
No. of HEPA	1	2	3	4	1	2	3

OPTIONAL ACCESSORIES for ASE-134 & 137

- (a) Satin Finish S.S. table top (d) Built in U.V. Germicidal light. (i) Virus burn out unit. top to down words positions or
- (1) Made out of thick 22 SWG (e) Protection Lamination film (j) Manomater from front to down words
- (2) Made out of thick 18 SWG (f) Cock for gas, air or vacuum line (k) Built in U.V. positions.
- (b) Transparent front door. (g)Exhaust System for 6 feet duct (l)Germicidal Light.
- (c) Static Pressure Manometer.(h)Exhaust Ducting (per runing feet) (m) Air flow system can be arrange from

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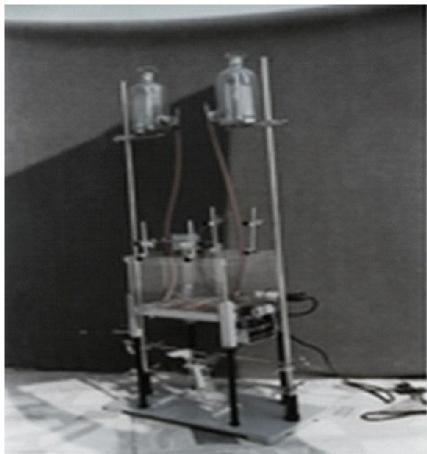
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**PERFUSION ASSEMBLY /
LAGENDROFF ASSEMBLY**



ELECTRO CONVULSIOMETER

ASE-2010 Perfusion Assembly/Lagendroff Assembly

- A versatile assembly serving both for heart perfusion and as an all-purpose thermostatic organ bath.
- The transparent Perspex bath is 12"x9"x8" and rests on a metal stand: a 1"x3/8" thick edge at the top makes clamps etc. carrying the uprights and Temperature of the bath is regulated (CONSTANT).
- Thermostatic sensitivity $\pm 2^{\circ}\text{C}$.
- The stirrer unit is completely independent, and dips into the bath in one corner, and fixes on its special stainless steel upright. A Perspex connection box is fitted to the bath frame, and carries all the electric leads and connections.
- Two pilot lamps indicate the thermostat and stirrer operation.
- Extra accessories to enable the unit to be used as an all-purpose organ bath (2 unit) are:- a) Double set of glass inner vessels.b) Oxygen tubes.c) Warming coils.d) Levers with stainless steel capillary.e) Four uprights with boss heads.f) X blocks.
- Complete assembly with upright stand, double reservoir, mercury, manometer.

ASE-2011 Electro Convulsiometer

- Sturdy and maintenance free • Economic • Very low power consumption • Dimensions- 385X290X264 mm
- Corneal electrodes- 3 pairs • Ammeter – digital • Timer – digital • Current- 0.1mA-330mA • Foot switch-yes • In-put volt 220 V AC

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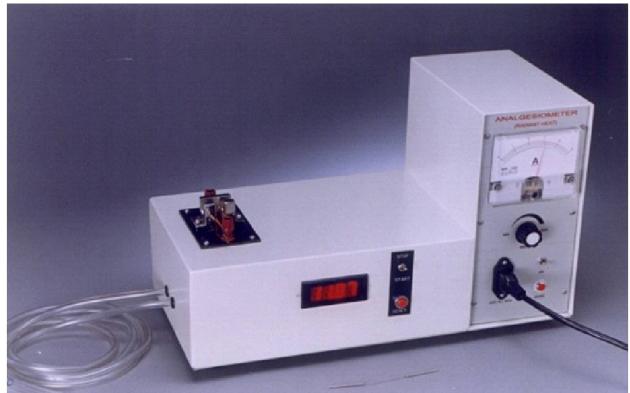


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ROTOROD APPARATUS



ANALGESIOMEER (HOT & COLD PLATE TYPE)

ASE- 2014 Rotarod Apparatus ASE- 2016 Analgesiomeer (Hot & Cold Plate Type) INDIVIDUAL TIME COUNTERS (999.9 seconds) • Digital RPM indicator and digital time counters • Each counter should run from the beginning of the test until the animal falls from the rod to the lane • Electronic change of speed from 4-120 rpm • Non-transparent partition • Instruments can be used for mice as well as rat just by changing central rod • Easy replacement of the central rod for mice or for rat

Specifications

Dimensions (mm) 850X3 10X55 4 Width of lane (mm) 118 Number of compartments 05 Diameter of central rod for mice (mm) 30 Diameter of central rod for rat (mm) 60 Distance and Rod shaft from bottom time switch plate 215 mm Power requirements 110 V AC

ASE- 2016 Analgesiomeer (Hot & Cold Plate Type)

- Plate temperature is held at a set point between 5°C to 70°C ($\pm 0.5^\circ\text{C}$). • A built-in timer activated by an external foot switch allow the precise measurement of the reaction time (0.1 Sec. Resolution). • Remote foot-switch control the test start / stop allowing rapid Hands-free experiments. • It provide with the calibration certificate of the temperature indicator. • Thick Aluminium plate (12 mm) should provide a very high temperature stability & Uniform surface distribution.

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ASE-134(a)

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ASE-134(b)

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ASE-134 Horizontal / Vertical Laminar Flow Cabinet *ALPHATM*

"ALPHA" Horizontal Laminar Flow Cabinets are designed so as to meet the requirements of US Federal Standard 209 B (BS 5295) providing particle free air to meet class 100 (Class I) conditions. The cabinets are fabricated out of Stainless steel 304. Interior surfaces are epoxy painted for its longer life. The work table is made of thick Stainless steel at top. Side panels are made out of thick transparent plexi glass du ly Aluminium framed. The unit is fitted with pre-filter and HEPA Filter. Air is drawn through pre-filter and is made to pass through highly effective HEPA (High Efficiency Particular Air) filters having efficiency rating as high as 99.997% with cold DOP and 99.97% with hot DOP, thus retaining all air-borne particles of size 0.3 micron and larger.

Using a dynamic balancing machine, the blower and motor assembly is statically and dynamically balanced. Motor of 1/4 H.P. capacity operates with minimum noise level. Unit will supplied with HEPA, Pre filters, Manometers, Fluorescent tube, U.V. Light & cock. The working area is illuminated by florescent lighting fitted to the unit. The height of the working table provides a comfortable "SIT DOWN" working position for the operator. To work on 220/230 volts A.C. Supply. Construction fabricated from welded 16 gauge C.R. steel includes adjustable levelers. Work surface: 304 stainless steel/powder coated C. R. steel. Finish: exterior surface feature a chipresistant, powdercoated finish. Prefilters: disposable fiber glass. HEPA filter: choice of HEPA (rated 99.97% efficient@ 0.3µm particles) or ULPA (rated 99.99% efficient @ 0.12µm particles) Lighting: Fluorescent type with lux>800 & UV light. Air circulation 70%, Exhaust 30%, fresh air 30%. FFU airflow: 650 CFM (2" x 4"), 460 (2" x 3") of air at filter pressure drop from 0.350.795" W.G at 90 FPM.

Other changes will be done on request or as per user specification..

External size 1320 x 950 x 1900mm (W x D x H)

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ASE-134(a)

ASE-134a Laminar Air Flow Cabinet (Small Machine Types) ALPHA[®]

Laminar Flow Cabinets are designed so as to meet the requirements of US Federal Standard 209 B (BS 5295) providing particle free air to meet class 100 (Class I) conditions. The cabinets are fabricated out of Stainless steel 304 1 mm thick. Interior surfaces are epoxy painted for its longer life. The work table is made of thick Stainless steel at top. Side panels are made out of thick transparent plexi glass duly Aluminium framed.

Table Top Model.

Inner and outer body made are stainless steel 304, 1 mm thick.

Vertical Air flow and Pre-filter 99% down to 5m (Washable)

HEPA Filter of D.O.P. Tasted having efficiency 99.97% down to 0.3m

Noise Level Exceed 100ft candles in working area >1000lux

Power supply 230 volt/50Hz Single phase AC.

- a. U.V. Lamp : 15 W make Phillips 1 Nos.
- b. Light : 20 W make Phillips 2 Nos.
- c. Pressure : Manometer 0-50 WG
- d. Switch : Switches for Blower, Fluorescent Light, U.V. Light
- e. Work table : Made are stainless steel 18 SWG 304 Gr.
- f. Heavy duty : Dynamically balanced motor blower assemblies are mounted vibration pads.
- g. Front & side door : Polycarbonate Plaxi Glass transparent sheet thick 6 mm

Available in following models : In Complete Stainless Steel

Model	LH-22	LH-32	LH-42
Working Area	25"x24.5"x25.7"	36"x24.5"x25.7"	48"x24.5"x25.7"
Size of HEPA Filter	2'x2'x6"	3'x2'x6"	4'x2'x6"
No. of HEPA Filter illumination	1 1x20W	1 1x20W	1 2x40W

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ASE-160 SHAKER WATER BATH ALPHA^R

Useful for constant temperature as well as uniform shaking, for applications involving manometric measurements such as inoculation of tissue slides, homogenetic, protein coagulation, aerobic studies in atmosphere of various gasses or gas mixtures. Shaking tray made stainless steel 304 with clamps for containers.

Facility for securing each container on the tray during pasteurization to prevent spillage. The clamp for the containers made of stainless steel 304 quality , to screw onto Shaking tray, supplied completed with fixing material. The entire water is rained out from the Drainage Point. The machine is dry cleaned using a soft cotton cloth. Supplied with 250ml, 18 No's steel Containers.

It is a double walled unit with inside & out side made of thick stainless steel. Drain cock to empty the bath. Water droplets on the specimens. The gap between the two walls is filled with high grade glass wool in order to prevent thermal losses. Heating is achieved through a immersion type ISI heater and the temperature is controlled by LED Microprocessor controlled provided temperature of 62.5°C with an accuracy of $\pm 0.5^{\circ}\text{C}$. The machine digitized which has temperature control ,Electronic timer with display and buzzer to provide set temperature for a fixed period time. The time control and the shaking control option. Over temperature cut out electronically, $3^{\circ}\text{-}5^{\circ}\text{C}$ above set temperature. Bath interior and shaking rack made up of stainless steel. Tray capacity of 9 stainless steel containers of 250ml each. The bath has an oscillating tray riding on rollers oscillated through a gear variable speed motor. Shaking device by AC/DC geared motor with suitable RPM setting & speed control by electronic speed regulator.

Pyramidal cover constant Shaking speed range is between 40 to 140 cycles per minutes.

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ASE-134(a)



ASE-134(b)

ASE-134 Horizontal Laminar Flow Cabinet ALPHA[®]

"ALPHA" Horizontal Laminar Flow Cabinets are designed so as to meet the requirements of US Federal Standard 209 B (BS 5295) providing particle free air to meet ultra clean class 100 (Class I) 3.5) air for operations requiring particle free environment conditions. The cabinets are fabricated out of Stainless steel . The work table is made of thick Stainless steel at top. Side panels are made out of thick transparent plexi glass du ly Aluminium framed. The unit is fitted with pre-filter and HEPA Filter. Air is drawn through Disposable fiberglass pre-filter 1"to entrap dust and large particles HEPA (High Efficiency Particular Air) filters having efficiency rating as high as 99.997% with cold DOP and 99.99% with hot DOP, thus retaining all airborne particles of size 0.3 micron and larger. Cabinet front are smooth and rounded for uninterrupted air flow from the cabinet to the room accessory outlet and one outlet for an optional UV light with timer. All work area interior surfaces are align with edge of HEPA filter media to provide true laminar flow. A built in spill guard at the back of the work area is a must. No picture framing or back flow of air current given. Closing and opening of front door is integrated with the U. V on/off.

Using a dynamic balancing Blower /motor assembly should be mounted on isolators, have automatic compensation for filter loading with adjustable speed control to regulate air flow . Motor of 1/2 H.P with circuit breaker. Capacity operates with Noise level 65 dBA. Unit will supplied with HEPA, Pre filters, Manometers, Florescent tube, U.V. Light & cock. The working area is illuminated by Two fluorescent light bulbs lighting fitted to the unit. The height of the working table provides a comfortable "SIT DOWN" working position for the operator. To work on (220V, 60Hz) 7.0 FLA or 11.0 FLA...Non-glare, standard filter protection screen.

Warranty: Minimum One year for part and one year for service/labor

Other changes will be done on request or as per user specification..

Work Area Dimensions :110cm x 55cm x 55cm.

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ASE-134 Laminar Flow Cabinet ALPHA[®]

Laminar Flow Cabinets are designed so as to meet the requirements of US Federal Standard 209 B (BS 5295) providing particle free air to meet class 100 (Class I) conditions. Fabricated from welded 16 gauge C.R. steel includes adjustable levelers. Exterior surface feature a chip-resistant, power coated finish of approximately 0.6mm thickness for its longer life. The work table is made of thick Stainless steel 304 grade at top. Front panel movable transparent scratch resistant sheet of approx 6 mm thickness in Aluminium frame sliding with counter balance. Side panels are made out of thick transparent plexi glass. Air is drawn through pre-filter disposable fiber glass with Filtration efficiency of 98% for all type of particles of size 8 micron and larger and is made to pass through highly effective HEPA (High Efficiency Particular Air) filters having efficiency rating as high as 99.999% with cold DOP and 99.999% with hot DOP, thus retaining all air-borne particles of size 0.3 micron and larger.

The blower and motor assembly is statically and dynamically balanced. Motor 1440 RPM of 0.25 H.P. capacity operates with minimum noise level and vibration with adjustable speed. Unit will supplied with HEPA, Pre filters, Manometer provided to measure the airpressure.LCD display.Pressure differential: manometer 0-50mm range., Fluorescent tube with diffuser, U.V. Light 15/30W make Philips Holland & cock. The working area is illuminated by fluorescent lighting fitted to the unit. The height of the working table provides a comfortable "SIT DOWN" working position for the operator. To work on 220/230 volts A.C. Supply. Pre-filters: disposable fiber glass. HEPA filter: choice of HEPA (rated 99.999% efficient@ 0.3µm particles) or ULPA (rated 99.999% efficient @ 0.12µm particles) Lighting: Fluorescent type with lux >800 with diffuse acrylic to get 120 decalux on work surface.

Other changes will be done on request or as per user specification.

Work Table Size 4'x2'x2' (WxDxH) In Feet Tolerance ±5%

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ASE-134 Laminar Flow Cabinet

Laminar Flow Cabinets are designed so as to meet the requirements of US Federal Standard 209 B (BS 5295) providing particle free air to meet class 100 (Class I) conditions. Fabricated from Stainless Steel (304 G) main Body steel includes adjustable levelers from 55-85 mm. The work table is made of thick Stainless steel 304 grade at top non-perforated . Front panel movable transparent U.V.tolerant polycarbonate sheet of approx 6 mm thickness in Aluminium frame sliding with counter balance. Side panels are made out of thick transparent plexi glass. Air flow vertical Cleanliness level : less than 3.5 particles / liter of 0.5 um and larger Air is drawn through pre-filter disposable fiber glass with Filtration efficiency of 98% for all type of particles of size 8 micron and larger and is made to pass through highly effective HEPA (High Efficiency Particular Air) filters having efficiency rating as high as 99.999% with cold DOP and 99.999% with hot DOP, thus retaining all air-borne particles of size 0.3 micron and larger.

The blower and motor assembly is statically and dynamically balanced Suitable for 500 cfm. Motor 1200-1440 RPM of 0.25 H.P. capacity operates with minimum noise level less than 65 db and vibration less than 2.5 um with adjustable speed. Unit will supplied with HEPA, Pre filters 24 ×18 ×2., Manometer provided to measure the air pressure. Pressure differential: manometer 0-50mm range., Florescent tube with diffuser, U.V. Light 15/30W make Philips Holland & Laboratory cock for gas connection Switches & electrical socket outlets 15/5 amp-1no. The working area is illuminated by fluorescent lighting fitted to the unit. The height of the working table provides a comfortable "SIT DOWN" working position for the operator. To work on 220/230 volts A.C. Supply. Pre-filters: disposable fiber glass. HEPA filter: choice of HEPA (rated 99.999% efficient@ 0.3µm particles) or ULPA (rated 99.999% efficient @ 0.12µm particles) Lighting: Fluorescent type with lux >800 with diffuse acrylic to get 120 decalux on work surface. Other changes will be done on request or as per user specification.

Work Table Size 4'x2'x2' (WxDxH) In Feet Tolerance ±5%

Manufactured By : SUDARSHAN CHEMICALS India 324007 0744-2362345, 09414188018

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ASE-134 Laminar Flow Cabinet

"ALPHA" Laminar Flow Cabinets are designed so as to meet the requirements of US Federal Standard 209 B (BS 5295) providing particle free air to meet class 100 (Class I) conditions. Fabricated from welded 16 gauge C.R. steel includes adjustable levelers. Exterior surface feature a chip-resistant, power coated finish of approximately 0.6mm thickness for its longer life. The work table is made of thick Stainless steel 304 grade at top. Front panel movable transparent scratch resistant sheet of approx 6mm thickness in Aluminium frame. Side panels are made out of thick transparent plexi glass. The unit is fitted with pre-filter and HEPA Filter. Air is drawn through pre-filter disposable fiber glass with Filtration efficiency of 98% for all type of particles of size 8 micron and larger and is made to pass through highly effective HEPA (High Efficiency Particular Air) filters having efficiency rating as high as 99.997% with cold DOP and 99.97% with hot DOP, thus retaining all air-borne particles of size 0.3 micron and larger.

Using a dynamic balancing machine, the blower and motor assembly is statically and dynamically balanced. Motor of 1/4 H.P. capacity operates with minimum noise level. Unit will supplied with HEPA, Pre filters, Manometers, Florescent tube, U.V. Light & cock. The working area is illuminated by fluorescent lighting fitted to the unit. The height of the working table provides a comfortable "SIT DOWN" working position for the operator. To work on 220/230 volts A.C. Supply. Pre-filters: disposable fiber glass. HEPA filter: choice of HEPA (rated 99.97% efficient@ 0.3µm particles) or ULPA (rated 99.99% efficient @ 0.12µm particles) Lighting: Fluorescent type with lux >800 & UV light. Air circulation 70%, Exhaust 30%, fresh air 30%. FFU airflow: 650 CFM (2" x 4"), 460 (2" x 3") of air at filter pressure drop from 0.350.795" W.G at 90 FPM. On and off timer indicator for UV light along with total time usage of UV light. On sight annual calibration and validation. On site counting of dust particles in laminar air flow chamber annually under guarantee. At the time of supply. Provision of hanging the blood bag in cabin during preparation of components.

Other changes will be done on request or as per user specification.

Work Table Size 4'x2'x3.5' (WxDxH) In Feet Tolerance ±5%

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ASE-134(B SS) HORIZONTAL / VERTICAL LAMINAR FLOW CABINET

“ALPHA” Laminar Flow Cabinets are designed so as to meet the requirements of USFederal Standard 209 B conditions. Exterior Fabricated from Stainless steel 304.The work table is made of thick Stainless steel 304 grade at top. Frontpanel movable transparent scratch resistant sheet of approx 5mm/6mm thicknessin Aluminium frame. Side panels are made out of thick transparent plexi glass.The unit is fitted with pre-filter and HEPA Filter. Air is drawn throughpre-filter disposable fiber glass with Filtration efficiency of 98% for alltype of particles of size 8 micron and larger and is made to pass throughhighly effective HEPA (High Efficiency Particular Air) filters havingefficiency rating as high as 99.997% with cold DOP and 99.97% with hot DOP, thusretaining all air-borne particles of size 0.3 micron and larger.

Digital Microprocessor based for betterwith filter failure alarm controller switches for blower, LED light & U V Light15/30watt, LED white light with LED back light display UV light with timer.

Using a dynamic balancing machine, the blower andmotor assembly is statically and dynamically balanced. Motor of 1/4 H.P.capacity operates with minimum noise level db <65 db A. Unit willsupplied with HEPA, Pre filters, pressure Manometers, Gas inter nozzle floor leveling screws & wire cod. & cock. The working area is illuminated byfluorescent lighting fitted to the unit. The height of the working tableprovides a comfortable “SIT DOWN” working position for the operator. To work on220/230 volts A.C. Supply. Pre-filters: disposable fiber glass. HEPA filter air ISO 14644 class 5: choice of HEPA (rated 99.97% efficient @ 0.3µm particles) or ULPA (rated 99.99% efficient @ 0.12µm particles)Lighting: Fluorescent type with lux >800 & UV light. Air circulation70%, Exhaust 30%, fresh air 30%. FFU airflow: 650 CFM (2” x 4”), 460 (2” x 3”) of air at filter pressure drop from 0.350.795” W.G at 90 FPM. On and off timerindicator for UV light along with total time usage of UV light. Power Supply220V.50/60HZ. Other changes will be done on requestor as per user specification.“ “Work Table Size 120x60x60 (WxDxH) CM Feet Tolerance +5%

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ASE- 132a BIO SAFETY CABINET

Bio safety cabinet type A2 in which 70% air re-circulated and 30% of the air exhausted. The bio safety cabinet includes two DC motors. The motor automatically adjusts the airflow speed without the use of a damper to ensure continuous safe working conditions, even without maintenance adjustments. In order to preserve safety to the user and the environment, the exhaust blower on the cabinet continues operating when the supply blower stops working. When the exhaust blower fails, the supply filter also turns off. In order to ensure consistent and reliable down flow velocity across the supply HEPA filter over the life of the cabinet, the cabinet uses a pressure sensor(rather than an anemometer) to detect pressure drop across the supply filter, rather than in just one point across the down flow.

The pressure sensor is cased in order to protect the sensor from temperature, humidity and other environmental phenomena that can impact the sensor's performance.

The microprocessor displays the inflow and down flow air velocities in real time on an LED display to ensure the user knows whether or not the cabinet is working under safe operating conditions. The front window 10" sash opening and be made of laminated safety glass to ensure containment of potentially hazardous samples in the case of accidental glass breakage. All interior and exterior parts painted or smooth to ensure no risk of cuts to users or maintenance personnel. The front of the cabinet angled 10° to help minimize glare on the window to the user, and to ensure that the posture is comfortable during a working session. Inadequate ergonomics in a safety cabinet may lead to excessive fatigue, unsafe working habits and harmful consequences to user safety and product contamination. The cabinet noise level is less than 63 dBA for a 4 foot cabinet as measured in a sound proof room 12 inches in front of a cabinet and 15 inches above the work surface. Lower noise level promotes more comfortable and safer working habits.

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The Bio safety Cabinet has a microprocessor controller and same located on a slanted front panel so it is easy to see and reach from a seated working position in front of the cabinet. The interior of the front window is accessible for cleaning without requiring the user remove or support the window. The biological safety cabinet capable of achieving current state of the art in energy efficiency.

A biological with lights on a fan at operating speed consume less than 200 watts for a nominal four foot width and have a reduced energy mode for non-operational maintenance on containment in the work area. The cabinet automatically reduces fan/blower motor speed to 30 % when the front window sash is in closed position to ensure reduced energy consumption when the cabinet is not in use. In order to provide maximum effectiveness, efficiency and safety to laboratory personnel, UV light is programmable to allow for specific exposure time from 0 to 24 hours.

The automatic shut off feature on the UV light saves money on replacement of the bulbs. The cabinet has provision to fit taps for vacuum, water and non combustible gas & Taps.

The Bio Safety cabinet NSF / EN 12469 certified with listing on the website can be seen on the website. The Bio safety cabinet incorporate HEPA filters of the class H 14 EN 1822/14652 having a minimum efficiency of 99.995% at 0.3 µm particular size.

Approximate dimensions Exterior 1500 H × 1300 W × 800 D
Interior 800 H × 1200 W × 500 D

Ventilation Exhaust an inflow air volume approx 300 – 350 CFM. Heat emissions at 25°C approx 0.2 KW or lesser. The cabinet provided a microprocessor controller and large LED display for inflow and downflow air velocity and hours of operational, audible and visual alarms for HEPA filter failure, blower failure, air flow speed failure, and incorrect window position.

The Bio Safety Cabinet incorporates an LED indicator to indicate filter loading and provide visual and audible alarm to indicate excessive HEPA filters loading which can result in unsafe airflow deviation from the NSF recommended inflow and down flow air velocity values measured in meters per second or foot per minute.

The cabinet provided a fixed /adjustable height stand, UV light and one set of detachable arms rest and Two electrical outlets. The Drain pan of the BSC made of stainless steel 304 G. The Bio safety cabinet dual side wall with negatively pressurized interstitial space. Bio Safety cabinet with three side Stainless Steel wall or can be supplied with single glass side walls.

Supplied with external ducting and virus burn out units.

System validated at the time of installation and every 6 months during guarantee and CAMC. Suitable UPS with half hour battery to the firm and maintained in guarantee of CAMC. NSF / EN12469 certified.

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ASE-134 (B) LAMINAR FLOW CABINET ALPHA[®]

Type of Air Flow : VERTICAL Cleanliness Level : Less than 3.5 particles/ litre of 0.5 um and larger Noise Level : Less than 65 db Vibration Level : Less than 2.5 um CONSTRUCTION : Complete Body : Stainless Steel [(304 grade) with Top Non-Perforated INCLUSIVE OF STANDARD ACCESSORIES • HEPA Filters - 99.99% efficiency for 0.3 micron with integral metal guards & filter frame gaskets manufactured in super clean Air- Conditioned environment for longer life. • Motor -Blower assembly statically and dynamically balanced fitted with special vibration reducing pads to suit low noise and vibrations. (Suitable for 500cfm) • Front Door- U.V. Tolerant Poly Carbonate (6 mm) • Side Covers- U.V. Tolerant Poly Carbonate/Toughened Glass • Fluorescent Light - Low energy choke less to stand larger fluctuations in voltage. Light Intensity more than 800 lux.

- U.V. Lamp - In working zone. So placed that you can not see directly i.e. eyes are always protected.
- Support Stand -with leveling Screws adjustable from 55- 85mm
- Laboratory Cocks for Gas & Air
- Switches & Electrical socket outlets (15/5 amp- 1 no)
- Magnehelic Gauge Top Cover for lights
- Pre Filter 24"x18"x2"
- Power Requirement - 0.5 KW Single Phase The laminar flow will be validated at time of installation and every 6 months HEPA filters will be changed as and when required

Model	LSC-222	LSC-422	LSC-622
Working Table Size	2'x2'x2'	4'x2'x2'	6'x2'x2'
Size of HEPA Filter	2'x1.5'x6"	4'x1.5'x6"	3'x1.5'x6"
No Of HEPA Filters	1	1	2
Illumination by fluorescent light	1x20 or 40W	2x20 or 40W	1X40W

OPTIONAL ACCESSORIES

- (a) Satin Finish Non glaring S.S. Table Top
Made out of thick 18SWG
- (b) Static Pressure Manometer to asses pressure in HEPA Filters.

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ASE-134 (B) LAMINAR FLOW CABINET ALPHA[®]

Type of Air Flow : VERTICAL Cleanliness Level : Less than 3.5 particles/ litre of 0.5 um and larger Noise Level : Less than 65 db Vibration Level : Less than 2.5 um CONSTRUCTION : Main Body : M S Powder Coated. Table Top : Stainless Steel [(304 grade)] Non-Perforated INCLUSIVE OF STANDARD ACCESSORIES • HEPA Filters - 99.99% efficiency for 0.3 micron with integral metal guards & filter frame gaskets manufactured in super clean Air- Conditioned environment for longer life. • Motor -Blower assembly statically and dynamically balanced fitted with special vibration reducing pads to suit low noise and vibrations. (Suitable for 500cfm) • Front Door- U.V. Tolerant Poly Carbonate (6 mm) • Side Covers- U.V. Tolerant Poly Carbonate/Toughened Glass • Fluorescent Light - Low energy choke less to stand larger fluctuations in voltage. Light Intensity more than 800 lux.

- U.V. Lamp - In working zone. So placed that you can not see directly i.e. eyes are always protected. • Support Stand -with leveling Screws adjustable from 55- 85mm • Laboratory Cocks for Gas & Air • Switches & Electrical socket outlets (15/5 amp- 1 no) • Magnehelic Gauge Top Cover for lights • Pre Filter
- Power Requirement - 0.5 KW Single Phase The laminar flow will be validated at time of installation and every 6 months HEPA filters will be changed as and when required

Model	LSC-222	LSC-422	LSC-622
Working Table Size	2'x2'x2'	4'x2'x2'	6'x2'x2'
Size of HEPA Filter	2'x1.5'x6"	4'x1.5'x6"	3'x1.5'x6"
No Of HEPA Filters	1	1	2
Illumination by fluorescent light	1x20or 40W	2x20 or 40W	1X40W

OPTIONAL ACCESSORIES

- (a) Satin Finish Non glaring S.S. Table Top
Made out of thick 18SWG
- (b) Static Pressure Manometer to asses pressure in HEPA Filters.

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ASE-134 (B) LAMINAR FLOW CABINET **ALPHA[®]**

Type of Air Flow : VERTICAL Cleanliness Level : Less than 3.5 particles/ litre of 0.5 um and larger Noise Level : Less than 65 db Vibration Level : Less than 2.5 um CONSTRUCTION : Main Body : Stainless Steel. Table Top : Stainless Steel [(304 grade)] Non-Perforated INCLUSIVE OF STANDARD ACCESSORIES • HEPA Filters - 99.99% efficiency for 0.3 micron with integral metal guards & filter frame gaskets manufactured in super clean Air- Conditioned environment for longer life. • Motor -Blower assembly statically and dynamically balanced fitted with special vibration reducing pads to suit low noise and vibrations. (Suitable for 500cfm) • Front Door- U.V. Tolerant Poly Carbonate (6 mm) • Side Covers- U.V. Tolerant Poly Carbonate/ Toughened Glass • Fluorescent Light - Low energy choke less to stand larger fluctuations in voltage. Light Intensity more than 800 lux. **Certification CE, IVD & FDA certificate approved.**

Circulation down flow velocity of 40-70 fpm, ISO class 5/Higher air • U.V. Lamp - In working zone. So placed that you can not see directly i.e. eyes are always protected. • Support Stand -with leveling Screws adjustable from 55- 85mm • Laboratory Cocks for Gas & Air • Switches & Electrical socket outlets (15/5 amp- 1 no) • Magnehelic Gauge Top Cover for lights • Pre Filter • Power Requirement - 0.5 KW Single Phase The laminar flow will be validated at time of installation and every 6 months HEPA filters will be changed as and when required

Model	LSC-222	LSC-422	LSC-622
Working Table Size	2'x2'x2'	4'x2'x2'	6'x2'x2'
Size of HEPA Filter	2'x1.5'x6"	4'x1.5'x6"	3'x1.5'x6"
No Of HEPA Filters	1	1	2
Illumination by fluorescent light	1x20 or 40W	2x20 or 40W	1X40W

OPTIONAL ACCESSORIES

- (a) Satin Finish Non glaring S.S. Table Top
Made out of thick 18SWG
- (b) Static Pressure Manometer to asses pressure in HEPA Filters.

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ASE-132

ASE-132 Biological Safety Cabinet ALPHA[®]

The cabinets are fabricated out of M.S. Sheet. Interior surface are white epoxy painted for its longer life. The work table is made of thick M.S. Sheet. at top. Side panels are made out of thick transparent plexi glass duty framed. The unit is fitted with pre-filter and HEPA Filter. Air is drawn through pre-filter and is made to pass through highly effective HEPA (High Efficiency Particular Air) filters having efficiency rating as high as 99.99% with cold DOP and 99.97% with hot DOP, thus retaining all airborne particles of size 0.2-0.3 micron and larger. DOP tested HEPA Filters with IPD & FPD and further tested as US federal Standard 209B, BSC II A level.

Microprocessor based. The microprocessor must display the inflow and down flow air velocities in real time on an LED display to ensure the user knows whether or not the cabinet is working under safe operating conditions.

Pre filters are moisture, fungus, bacteria & frost resistant. These pre-filters are of nonwoven synthetic media mounted on frame having 90% efficiency down to 5 microns with IPD 5 nm wg at rated flow upto 1000 CFM ± 20%.

Using a dynamic balancing machine, the balanced centrifugal blower through pre-Filters retaining more than 75% of particles larger than 5 microns. All joints are tonged and Grooved. Blower and motor assembly is statically and dynamically balanced. Motor of 1/4 H.P. capacity operates with minimum noise level. The working area is illuminated by fluorescent lighting fitted to the unit. The height of the working table provides a comfortable "SIT DOWN" working position for the operator. In addition to the above features of a standard Vertical Laminar Flow Bench the "ALPHA" Bio-Safe cabinets have arrangement for recirculating a part of the air thus creating highest level of clean air. The unit is also convertible to the conventional vertical laminar flow bench with downward air flow by lifting the sliding front door upwards. Air is sucked through the pre-filter and the excess air is thrown out from the top by means of a COMPUTER FAN fitted at the top of the unit and is let out through a HEPA filter of size 1'x1'x6". Other changes will be done on request or as per user specification..

Glove ports and Gauntlets are provided on the collapsible type front door made of crystal clear plexi glass. Unit is fitted with built-in U.V. Germicidal light 15 or 30 watts & Fluorescent tube set 20 or 40 watts. To work on 220/230 volts A.C. 50 Hz Single phase.

Model	BSC-222	BSC-422	BSC-622
Working Table Size	2'x2'x2'	4'x2'x2'	6'x2'x2'
Size of HEPA Filter	2'x1.5'x6"	4'x1.5'x6"	3'x1.5'x6"
No Of HEPA Filters	1	1	2
Illumination by fluorescent light	1x20 or 40W	2x20 or 40W	1X40W

OPTIONAL ACCESSORIES

- (a) Satin Finish Non glaring S.S. Table Top
- (1) Made out of thick 22 SWG
- (2) Made out of thick 18SWG
- (b) Static Pressure Manometer to asses pressure in HEPA Filters.
- (c) Exhaust system 6' duct
- (d) Exhaust ducting (per running feel)
- (e) Virus burn out unit.
- (f) Gas burner

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ASE-131 PCR HOOD (PCR Work station)

Combining clean air environment. HEPA filter for optional protection against cross-contamination.

High-quality polyester fiber pre-filter(with minimal pressure loss and 85% arrestant on the A.F.I test for trapping larger particles and increasing the life of the main HEPA filter.

Effective sterilization using a long -life 254 nm UV lamp.

Built in anti-glare fluorescent lamp minimizes shadows and relieves eye strain .

Ecofriendly microprocessor -based control panel.

Large capacity blower and easy blower speed adjustment by the control panel.

Settable digital timer for UV light exposure to deactivate DNA and RNA contaminants (wait off, max.30 min).

Comfortable front access to cartridge type of filters for easy replacement.

Interlocking safety door system shuts off UV light automatically when opening the door.

UV- blocking door and side panels made of transparent acrylic resin provides clear inside view. UV over-exposure alarm and over-current protection .

Working Area 90 x 50 x 45 mm

- a. U.V. Lamp : 15 W make Phillips 1 Nos.
- b. Light : 20 W make Phillips 2 Nos.
- c. Pressure : Manometer 0-50 WG
- d. Switch : Switches for Blower, Fluorescent Light, U.V. Light
- e. Work table : Made are stainless steel 18 SWG 304 Gr.
- f. Heavy duty : Dynamically balanced motor blower assemblies are mounted vibration pads.
- g. Front & side door : Polycarbonate Plaxi Glass transparent sheet thick 5 mm

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ASE-131 PCR HOOD (PCR Work station)

Combining clean air environment. HEPA filter for optional protection against cross-contamination.

High-quality polyester fiber pre-filter(with minimal pressure loss and 85% arrestant on the A.F.I test for trapping larger particles and increasing the life of the main HEPA filter.

Effective sterilization using a long -life 254 nm UV lamp.“Built in anti -glare fluorescent lamp minimizes shadows and relieves eye strain . Eco Friendly microprocessor -based control panel. Large capacity blower and easy blower speed adjustment by the control panel. Settable digital timer for UV light exposure to deactivate DNA and RNA contaminants (wait off, max.30 min).

Comfortable front access to cartridge type of filters for easy replacement. The Interlocking safety door system shuts off UV light automatically when opening the door.

UV- blocking door and side panels made of transparent acrylic resin provide a clear inside view.

UV over-exposure alarm and over-current protection . Inclined manometer, Cok for gas, air or vacuum with power supply for vortex mixture and mini centrifuge. Noce less than 60 dB.

Working Area

90 x 60 x 60 mm

- a. U.V. Lamp : 30 W make Phillips 1 Nos.“
- b. Light : 20 W make Phillips 2 Nos.“
- c. Pressure : Manometer 0-50 WG“
- d. Switch : Switches for Blower, Fluorescent Light, U.V. Light“
- e. Work table : Made are stainless steel 18 SWG 304 Gr.“
- f. Heavy duty : Dynamically balanced motor blower assemblies are mounted vibration pads.
- g. Front & side door : Polycarbonate Plexiglass transparent sheet thick 5 mm

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ASE-110 LABORATORY REAGENT/KIT REFRIGERATOR ALPHA[®]

Temperature range from 2°C to 8°C. It has galvanized sheet steel construction, powder coated, No welded joint to be exposed for rusting, Insulation of high grade pressure-foammaterial. Lockable door with tight sealing surroundto prevent cold loss, Automatic defrosting and condensed meltwater evaporation. Re-circulating air-cooling system. Control panel with thermometer, mainswitch and temperature selection. Hermetically enclosed, low noise,vibration proof/low vibration compressor. Visual and caustic signal alarm system.

Epoxy coated outside finish and GS interior Low noise, automatic defrosting, CFC freeand HCFC free. Provided with Digital temperature display. Powder input AC, 220-240 VoltAC to, 50 Hz. Star rating 5 star. Model Type Double Singledoor.

The unit complies with relevant IECsafety standards. Direct cooling system for stable temperature controls and circuit by Compressor/Condensing Units CFC free & eco friendly refrigerant. The gap between the inner and outer wall is filled with Puff insulation to avoid thermal loss. 4-6 freezer drawers for storage Perforated Sheet. Door Operated illumination lamp is fitted inside the chamber for easy visibility. Unit is fitted with Control penal having all control and circuitry are housed at the top fitted with temperature controller cum indicator microprocessor based 7 segment LED display,

Other changes will be done on request or as per user specification..

Capacity Approx: 210,360,400,500 Ltr

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ASE-110 REAGENT REFRIGERATOR MAKE ALPSUD

A vertical model, microprocessor controlled double door refrigerator, interior light, in-built stabilization with digital display of temperature. Metallic outside and inside with non-transparent double door and proper sealing. Temperature range from 2°C to 8°C. It has galvanized sheet steel construction, powder coated, No welded joint to be exposed for rusting, Insulation of high grade pressure-foammaterial. Lockable door with tight sealing surroundto prevent cold loss, Automatic defrosting and condensed meltwater evaporation. Re-circulating air-cooling system. Control panel with thermometer, mainswitch and temperature selection. Hermetically enclosed, low noise,vibration proof/low vibration compressor. Visual and caustic signal alarm system. Insulation: CFC free PUF (polyurethane foam) insulation. Refrigeration: Hermetically sealed Compressor with CFC free refrigerant. Cooling: Static uniform cooling by forced air circulation. Acoustic and visual alarm for door open, low /high temperature, malfunctioning and Sensor problem. Trays / Shelves: Adjustable epoxy coated perforated shelves. Machine be provided with a suitable and good quality stabilizer.

Other changes will be done on request or as per user specification..

Capacity Approx: 210, 300, 360, 400, 500 Ltr

Manufactured By : SUDARSHAN CHEMICALS India 324007 0744-2362345, 09414188018

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ASE-110a DEEP FREEZER VERTICAL ALPHA[®]

Deep Freezers made of complete Powder coated, Deep Freezer with -10 to -25 degree C upright model Equipped with LCD display and provide real-time and historical graphing of temperature Electronic door with security lock, small castors, external dry alarm contacts, LED lightning antimicrobial exterior paint, and a microprocessor control system with high/low temp, door ajar alarms, and password security with user specific access, door lock which provides additional security for expensive samples and reagents from unauthorized users external coating with anti-bacterial surfaces, to eliminate 99.99% of surface bacteria within 24 hours of exposure and ensure environment friendly. Interior for sample protection. Internal LED lightings save up 70% power with less heat exposure than fluorescent or incandescent lighting: and provide standard wheel/casters as well, for easy location or movement. Include intelligent automatic defrost system offering superior product protection with long-term reliability and exceptional product quality; thermocouple on the evaporator detecting ice formation; defrosting only when needed to keep units at optimum performance, keeping chamber temperature within safe limits; no risks for samples during freezer cold wall defrosting. It has forced air design instead of regular cold wall for both refrigerator and freezer, rapid cool-down and very fast recovery due to fan assistance, fast temperature equilibration, superior sample protection. It provides high-performance protection for precious samples such as molecular biology, chemicals, reagents and kits. Temp. Range -10 °C to -25°C. Temperature Uniformly Range ±3°C. Door solid pre-coated steel white color, with ergonomic handle in aluminum. It has alarms open door, high/low temperature, power failure, clogged condenser filter. Controller Standard is 0.1°C resolution, password protection. It has defrost Intelligent automatic system. It is CE Certificated. It has door lock key lock. Lighting LED. It has dry contact alarm dry contact to connect to remote alarms. Mounted with standard casters. Shelves or Drawers 4 Nos. Typical Power consumption Power requirements 220-240V, AC, 50Hz single phase. Temperature controls and circuit by Compressor/Condensing Units CFC free & eco friendly refrigerant. The gap between the inner and outer wall is filled with Puff insulation to avoid thermal loss. 4/5 freezer drawers for storage Perforated Sheet with lock on each drawer. Audiovisual alarm for high/low set points, Door lock arrangement. Unit is fitted with Control panel having all control and circuitry are housed at the top fitted with temperature controller cum indicator microprocessor based LED display System built-in multi alarm system with memory function. Other changes will be done on request or as per user specification..

Capacity Approx: 210,340,400,500 Ltr

Manufactured By : SUDARSHAN CHEMICALS India 324007 0744-2362345, 09414188018

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ASE-110a DEEP FREEZER VERTICAL

Deep Freezers made of complete Powder coated, Upright lab freezer have robust construction and easy mobility with door opening heaters. preventing condensation from building up.

System have Wide voltage tolerance design with applicable voltage range of 187-242 V/AC

Chemically stable, CFC free & environmentally safe refrigeration system. System have Multiple malfunction alarms including high/low temperature and sensor error, System have High density foam insulation for rigidity & stable storage, temperature,

System have Two types of alarm indications, audible buzzing & visible, flashing light, System have Door lock for storage safety,

System have factory fitted microprocessor controller with LED display, Cabinet Type Upright Cooling, System have following specifications, Manual Defrost Mode Noise level less than (dB(A)) 34 Temperature Range (°C) -10-25 E

Exterior Material Cold plate powdercoated Interior Material PS plate adsorption

Shelves Material Steel coil Insulation Ring isopentane foaming agent Outside Door One solid door

Shelves Quantity 6 Internal Temperature Uniformity $\pm 3^{\circ}\text{C}$ and Accuracy $\pm 1^{\circ}\text{C}$

Manufactured By : SUDARSHAN CHEMICALS India 324007 0744-2362345, 09414188018

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ASE-140 FOGGER MACHINE

Compatible with all types of water based disinfectants including acidic, alkaline, oxidizing, quaternary ammonium based, peroxide and silver nitrate combination.

Producenearby invisible droplets of particle size 0.1-10 microns. Suitablefor 100-1000 Sq Feet. Madeof corrosion proof. Durable body made of heavy duty nylon material SS 316 madenozzle and stand.

Providedwith a stand with 360 Degree Rotation.
Inbuiltprotection against high voltage current.

Cutoff automatically when the disinfectant level is low.

Havean integrated Air Intake filter and integrated reservoir filter.

The tank 6 Liter of stainless steel.

Disinfectantlevel visible in the tank. Timer of 0-60 minutes integrated with the fogger body.

CE certified.

Manufactured By : SUDARSHAN CHEMICALS India 324007 0744-2362345, 09414188018

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ASE-110 a



ASE-110 a

ASE-110 DEEP FREEZER HORIZONTAL ALPHATM

"ALPHA" Deep Freezers are double with inner chamber made of stainless steel and outer of thick PCRC sheet Powder Coated. Temperature range from ambient to -20°C Direct cooling system for stable temperature controls and circuit by ISI marked Compressor/Condensing Units CFC free & R-134 a eco friendly refrigerant. The copper cooling coils are welded throughout on the outer side of the S.S. Chamber which provides efficient cooling upto -20°C. Air Circulation fan is fitted to unit so as to maintain uniform temperature throughout the chamber. The gap between the inner and outer wall is filled with high grade mineral glass wool to avoid thermal loss. A full view inner plexi-glass door enables inspection and monitoring of inner chamber milk bottle without disturbing the process temperature. Metal mash (Jali)/ Perforated Sheet for storage of milk containers. Body is mounted on a sturdy angle iron frame and is mounted on castor wheels. Door Operated illumination lamp is fitted inside the chamber for easy visibility Unit is fitted with Control penal having all control and circuitry are housed at the top fitted with temperature controller cum indicator microprocessor based with LED display for set value (SV) & process Value (PV) to select any desired temperature provided with Voltmeter on the panel to read the incoming voltage. With Chart recorder & with Voltage stabilizer or In built Stabilizer.

Other changes will be done on request or as per user specification..

Capacity : 200,300,400,500 Ltr

Manufactured By : SUDARSHAN CHEMICALS India 324007 0744-2362345, 09414188018

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ASE-132a BIOSAFETY CABINET CLASS II

100 % air exhaust Negative pressure air surrounding all biological contaminated parts

Class II, Type B2 cabinets are total exhaust cabinets, widely used in toxicology laboratories and similar applications where chemical effluent is present and clean air is essential.

There is no recirculation withing the work area.

Room air enters through a blower/motor in the top of the cabinet and passes through a HEPA supply filter into the work area as the vertical unidirectional airflow.

Descending air is pulled through the base of the cabinet through the perforated front and rear grilles.

Simultaneously, air entering through the perforated front opening is pulled through the grille and exhausted immediately,

100% of the air is pulled into the facility exhaust system for appropriate treatment.

Type B2 cabinet are hard-connected to an exhaust system.

Negative pressure surrounds the work area with double wall plenums for protection.

Air drawn through pre-filter is made to pass through highly effective HEPA (High Efficiency Particular Air) filters MAIN/SUPPLY FILTER having efficiency rating as high as 99.99% with cold DOP and 99.97% with hot DOP, thus retaining all air-borne particles of size 0.3 micron and larger. The highly efficient HEPA filter maintains the optimum cleanliness and purity. Being equipped with the prefilter, it can extend the life of HEPA filter.

Aerodynamic airflow grills maintain safety and prevents blockage.

U.V and fluorescent interlock available Ergonomic and comfortable sloped front window for comfortable head and elbow rest position, thus reducing fatigue Sash is counterbalanced for smooth and light weight operation with standard opening for easier access to work zone and enhanced user safety.

CLASS-II design ensures PERSONNEL, PRODUCT and ENVIRONMENT PROTECTION.

MATERIAL OF CONSTRUCTION

Internal Working Chamber is made up of Stainless Steel (SS-304).

External Cabinet is fabricated of Cold Rolled Steel Duly powder Coated.

Model	BSC-222a	BSC-322a	BSC-422a	BSC-622a
Working Table Size	2'x2'x2'	3'x2'x2'	4'x2'x2'	6'x2'x2'
Size of HEPA Filter	2'x1.5'x6"	3'x1.5'x6"	4'x1.5'x6"	3'x1.5'x6"
No Of HEPA Filters	1	1	1	2
Illumination by fluorescent light	1x20 or 40W	2x20 or 40W	2x20 or 40W	2X40W

OPTIONAL ACCESSORIES

(a) Satin Finish Non glaring S.S. Table Top

(1) Made out of thick 22 SWG

(2) Made out of thick 18SWG

(b) Static Pressure Manometer to asses pressure in HEPA Filters.

(c) Exhaust system 6' duct

(d) Exhaust ducting (per running feel)

(e) Virus burn out unit.

(f) Gas burner

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IKG 400



NFG - 450

IKG 400 DEEP FREEZER HORIZONTAL ALPHA^R

Green Range CFC free refrigerant & cyclopentane insulation Tropicalized Design- with bigger compressor and improved body condenser size , Ultra low energy consumption, faster cooling longer holding Dual temperature , Capacity 365 ltr Dimensions: WxDxH 53x26x33 inches Temp range : 17° C to 20° C Wheels fitted on rear side fitted with lock Auto Defrost , No. of Baskets/shelves - 2 No of glass lids / doors :2

NFG-450 DEEP FREEZER VERTICAL ALPHA^R

Green Range CFC free refrigerant & cyclopentane insulation Tropicalized Design- with bigger compressor and improved body condenser size , Ultra low energy consumption, faster cooling longer holding Dual temperature , Capacity 400 ltr Dimensions: WxDxH 27x28x73 & inches Temp range : -17° C to -24° C Wheels fitted on rear side fitted with lock Auto Defrost , No. of Baskets/shelves - 5/6 No of glass lids / doors :1

Other changes will be done on request or as per user specification..

Capacity : 200,300,365, 400,500 Ltr

Manufactured By : SUDARSHAN CHEMICALS India 324007 0744-2362345, 09414188018

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ASE-255 Microslide cabinet (Closed pack Manner)

For keeping 75 x 25 mm slides in vertical position one after the other. Heavy gauge. The cabinet has 480 x 76 mm drawer and takes slides in vertical position. Each drawer moves in a slot and is completely removable for easy lifting. Metallic door with lock & key facility and cataloguing sloughs for numbering. The cabinet accommodates maximum nos of slides for optimum space utilization. Rust registrant metal (GI sheet with powder coated) Warranty 5 years comprehensive.

Other changes can be done on request or as per user specification..

CAPACITY

2000	slides	500	slides	1000	slides	25000	slides	5000	slides	50000	slides
10000	slides	3000	slides								

ASE-256 Block cabinet (Horizontal manner)

Cabinet for storage of paraffin blocks. Made of GI mild steel strong cabinet 18 GA, duly powder coated is most suitable for strong of 16"x16"x 2" with 8 rows to hold 180 to 200 blocks or Plastic moulds in drawer horizontal manner. Each drawer is having smooth running and sliding channel with trays Index card holder and rust free handle. Complete with lock and keys supplied in multiples on front panel of each cabinet with front panel indexing facility. Height of block cabinet is approx 9-10 feet in height. Block cabinet have angle iron frame at the base for stability. one stable foldable steel tripod stair will be supplied with each cabinet.

Other changes will be done on request or as per user specification..

CAPACITY

50000 blocks

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ASE-110 C DEEP FREEZER

Deep Freezers Vertical Double door with Gaskets Double seal silicon& are double with inner chamber made of stainless steel and outer of thick PCRC sheet powder coated with PUF inoculation. Maximum cooling time hours at maximum ambients temperature of 33deg C. To -20⁰C air cooled, relative humidity of 15-90% is achieved by hermetically SHIRIRAM / KIRLOSKER compressor CFC free with automatic electric defrost. The copper cooling coils are welded throughout on the outer side of the S.S. Chamber which provides efficient cooling upto -20⁰C. Air Circulation fan is fitted to unit so as to maintain uniform temperature throughout the chamber. The gap between the inner and outer wall is filled with PUF to avoid thermal loss. Body is mounted on a sturdy angle iron frame and Solid rust free cabinet to prevent corrosion and mounted on lockable castor wheels. Resectable over current breaker shall be fitted for protection Unit is fitted with Solid State Digital Temperature Indicator-cum-Controller Digital Display of set and actual temperature, audio visual Electronic Alarm System.with adjustable 6 to 8 shelve stainless steel shelves Separate Chamber racks to be pulled out for easy handling . Supplied with Servo controlled stabilizer/CVT. ISO9001,ISO 13485,FDA, CE IEC-60601 approved product

Other changes will be done on request or as per user specification..

Available in following Capacities :

	CAPACITY	VERTICAL TYPE
(a)	4 Cu.ft.	112 ltrs.
(b)	6 Cu.ft.	171 ltrs.
(c)	8 Cu.Ft.	185 ltrs.
(d)	10 Cu.ft	280 ltrs.
(e)	11 Cu.ft.	300 ltrs.
(f)	12 Cu.ft.	336 ltrs.
(g)	15 Cu.ft.	422 ltrs.
(h)	18 Cu.ft.	500 ltrs.
(i)	25 Cu.ft.	650 ltrs.

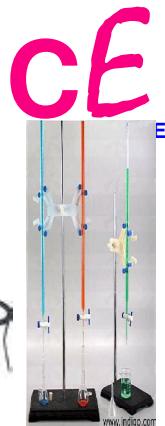
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ALPHATM
SUDARSHAN



E

TEST TUBE STAND ALPHATM

aluminum with 2x6 holes for 18x150 mm test tubes.

aluminum with 4x10 holes for 12 x 100 mm test tubes.

aluminum with 4 x 10 Holes for 18 x 150 mm test tubes

PIPETTE STAND, ALPHATM

polypropylene, horizontal for six glass pipettes of 1 to 10ml

TRIPOD STAND ALPHATM

iron, 6 inches high

TEST TUBE HOLDER ALPHATM

With wooden handle

WIRE GAUZE ALPHATM

6" x 6"

BURETTE STAND ALPHATM

Iron Base with burette clamp and heavy iron base
fisher type

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ASE-124 MICRO PIPETTE (IVD) CE

Micro Pipette

Available in fixed and variable volume. Useful for medical research and industrial laboratories. Auto cleavable tip cone & lower section assembly.

Fixed Volume:

5 µl
10 µl
20 µl
50 µl
100 µl
200 µl
250 µl
500 µl
1000 µl
2000 µl
5000 µl

Variable Volume:
0.5-10 µl
5-50 µl
10-100 µl
20-200 µl
50-200 µl
100-1000 µl

ASE-126 PIPETTE MULTICHANNEL MICRO PIPETTE & STOPPER PIPETTE

Volume is set using the pipetting push button or black adjustment knob.
Dispersing by plunger, In order to protect the user contact with used tips.
The pipettes are equipped with tip.

1-10 µl
5-50 µl
10-100 µl
20-200 µl
50-200 µl
100-1000 µl

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BOTTLE TOP DISPENSERS ASE-20231

The built-in safety features of the discharge tube and closure cap prevent accidental dispensing or spilling of corrosive liquid. Plain & Brown Colour Bottle as per requirment. The Dispensers can be used directly from bottles and is resistant to aggressive reagents, Auto-clavable , strong acids, alkalis and solvents.

Volume metric adjustments, Volume setting with pre calibrated steps In-lab calibration device for convenience Robust and autoclavable fully assembled Covers.

Volume range of

0.5 - 5 ml

1 - 10 ml

2.5 - 25 ml

5 - 50 ml

20 - 100 ml

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ASE-1110

ASE-1110 STORAGE REFRIGERATOR 4°C TO - 20°C

"ALPHA" Storage Refrigeration are double with inner chamber made of 304 grade stainless steel sheet and outer of thick MS sheet with Powder Coated. With double glazed-glass door. Temperature range from -20°C to 4°C is achieved by hermetically sealed SHRIRAM / KIRLOSKER compressor with CFC free refrigerant system & noise level less than 50 dBA . The copper cooling coils are welded throughout on the outer side of the S.S. Chamber which provides efficient cooling up to -20°C. Forced air refrigeration The gap between the inner and outer wall is filled with PUF insulation to avoid thermal loss fitted with magnet gasket for tight sealing to avoid ice formation & thick external double door to minimize cooling loss. Body is mounted on a sturdy angle iron frame and is mounted on castor wheels. Unit is fitted with Solid State Digital Temperature Indicator-cum-Controller Microprocessor PID controller. Horizontal Chest type models are supplied with three adjustable stainless steel storing shelves. Unit workable on 220-230 Volts/50Hz. *Other changes will be done on request or as per user specification..*

Available in following Capacities :

CAPACITY

(a)	4 Cu.ft	112 ltrs.
(b)	6 Cu.ft.	171 ltrs.
(c)	8 Cu.Ft.	185 ltrs.
(d)	10 Cu.ft	280 ltrs.
(e)	11 Cu.ft.	300 ltrs.
(f)	13 Cu.ft.	360 ltrs.
(g)	15 Cu.ft.	422 ltrs.
(h)	18 Cu.ft.	500 ltrs.
(i)	25 Cu.ft.	650 ltrs.

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ASE-1110



ASE-1110 DEEP FREEZER ALPHA[™]

"ALPHA" Deep Freezers are double with inner chamber made of 316 grade stainless steel sheet and outer of thick SS 304 grade Stainless Steel. Temperature range from ambient to -20°C is achieved by hermetically sealed SHRIRAM / KIRLOSKER compressor with CFC free refrigerant system & noise level less than 50 dBA . The copper cooling coils are welded throughout on the outer side of the S.S. Chamber which provides efficient cooling up to -20°C. The gap between the inner and outer wall is filled with 4" PUF insulation to avoid thermal loss fitted with multi point silicon gasket for tight sealing to avoid ice formation & thick external double door to minimize cooling loss. Body is mounted on a sturdy angle iron frame and is mounted on castor wheels. Unit is fitted with Solid State Digital Temperature Indicator-cum-Controller. Horizontal Chest type models are supplied with three adjustable stainless steel storing shelves. Unit workable on 220-230 Volts/ 50Hz. Other changes will be done on request or as per user specification..

CAPACITY Approx

(a) 380 Liters. Interior Size 1100 x 700 x 600 mm
Exterior Size 1800 x 850 x 750 mm

Optional:

CHEST TYPE VERTICAL TYPE

1. Microprocessor based Digital Indicator cum Controller.
2. 7 days Temperature Recorder.
3. Inbuilt System for temp. deviation beyond alarm set point to show occurred errors & auto correct.
4. Adjustable safety alarm with automatic continuous charged battery back up to provide alarm functions in case of power fails.
5. Inbuilt High & low automatic voltage compensator.
6. Servo Stabilizer suitable for above
7. U P S with 15/30/45 minutes backup.

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ASE-101 Incubator (Low Temperature)

ALPHATM

This is the most versatile low temperature indicator for Biochemical Oxygen Demand determinations. Castor wheel mounted cabinet is double walled with inner chamber of anodised aluminium or stainless steel and outer casing of M.S. Sheet dulywhite stoved enamel painted. The gap of 75 mm. between the outer and the inner wall is filled with blanket super grade glass wool to prevent thermal losses. Triple walled back of the unit is fitted with two air circulation system is provided by a F.H. Motor with a fans for maintaining temperature uniformly throughout the chamber. Heating elements of nicrome wire are placed in the air path and are duly insulated from the body. The inner chamber is ribbed for placement of three shelves at desired heights. Full view inner glass door permits inspection of specimens, without disturbing the same. Lock and key arrangement is provided in the double walled outer door with magnetic gasket. Unit is fitted with door opereted illumination lamp isside the chamber. With Automatic Timer (0-24 hours) for regulating cyclic illumination conditions.

The temperature range from 5°C to 60°C± 0.5°C is controlled by two EGO/JUMO German, double action hydraulic capillary thermostat. Refrigeration unit is formed by hermatically seated ISI Marked SHIRIRAM make compressor, and the cooling coils are distributed all round the chamber and lie in the air circulation path. An L-shaped prismatic thermometer is provided at the top on the front panel alongwith seperate three indicator lamps for mains, heating and incoming voltage. cabinet is mounted on castor wheels., cord and plug to work on 220/230V A.C. supply. Unit is supplied with 2 K.V voltage stabilizer. **Other changes will be done on request or as per user specification..**



ASE-102 SUPER AUTOMATIC MODEL **ALPHATM**

This unit switches from heating to cooling and vice versa irrespective of the ambient temperature and is thus capable of working without any user intervention. **Other changes will be done on request or as per user demand.**

Available in following sizes.

INSIDE CHAMBER SIZE (WXHXD)	CAPACITY	ALUMINIUM	S.STEEL
(a) 420mm. x 560mm. x 380mm.	3 cu.ft.		
(b) 500mm. x 840mm. x 410mm.	6 cu.ft.		
(c) 580mm. x 990mm. x 490mm.	10 cu.ft.		
(d) 620mm. x 1020mm. x 520mm.	12 cu.ft.		
(e) 700mm. x 900mm. x 650mm.	15 cu.ft.		
(f) 775mm. x 900mm. x 775mm.	20 cu.ft.		

ASE-101

ASE-103 SUPER DELUXE AUTOMATIC (DIGITAL MODEL) **ALPHATM**

Fitted with Electronic Digital Indicator-cum-Controller for Heating & Cooling. Castor wheel mounted cabinet is double walled with inner chamber of anodised aluminium or stainless steel and outer casing of M.S. Sheet duly powder coated. between the outer and the inner wall is filled with blanket super grade glass wool to prevent thermal losses.(Pull view inner glass door) Temperature range 5°-50°C. Temperature accuracy +2°C.CFC free compressor of "KIRLOSKER".Air circulating fan for uniform temperature.Unit is supplied with voltage stabilizer. Lock and key arrangement.Safe and user friendly. **Other specification as per cat. No.ASE-101. Other changes will be done on request or as per user demand.**



Available in following sizes.

INSIDE CHAMBER SIZE (WXHXD)	CAPACITY	ALUMINIUM	S.STEEL
(a) 420mm. x 560mm. x 380mm.	3 cu.ft.		
(b) 500mm. x 840mm. x 410mm.	6 cu.ft.		
(c) 580mm. x 990mm. x 490mm.	10 cu.ft.		
(d) 620mm. x 1020mm. x 520mm.	12 cu.ft.		

ASE-102-103

OPTIONAL ACCESSORIES

- (a) Interior illumination with 3 Nos. fluorescent tubes of 60cm, length
(Note when the tubes are 'ON' temperature can be obtained from 10°C to 50°C)
- (b) Automatic Timer (0-24 hours) for regulating cyclic illumination conditions.
- (c) Arrangement for incubation of CO₂/Air mixture.
- (d) Air Compressor for use with above.
- (f) Shaking machine to be fitted inside the chamber.
- (g) Humidity from 55% to 95% is controlled by Humidistat. Humidity is created by latest MOTORISED HUMIDIFIER SYSTEM using SPLASH PLATE technology or day and night.
- (h) Dual setting Digital Temperature Controller for setting two different temperature forday and night.
- (i) Electronic Digital Temperature & Humidity Indicator-cum-Controller.
- (j) Exterior illumination system with two tube lights on both sides.
- (k) Automatic Voltage Stablizer 3 KVA.
- (l) Chart Type Temperature Recorder.
- (m) Carbondioxide Cylinder

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ASE-101

ASE-101 Incubator (Low Temperature) **ALPHA[®]**

This is the most versatile low temperature indicator for Biochemical Oxygen Demand determinations. Castor wheel mounted cabinet is double walled with inner chamber of anodized aluminium or stainless steel and outer casing of M.S. Sheet duly white stoved enamel painted. The gap of 75 mm. between the outer and the inner wall is filled with blanket super grade glass wool to prevent thermal losses. Triple walled back of the unit is fitted with two air circulation system is provided by a F.H. Motor with a fans for maintaining temperature uniformly throughout the chamber. Heating elements of nicrome wire are placed in the air path and are duly insulated from the body. The inner chamber is ribbed for placement of three shelves at desired heights. Full view inner glass door permits inspection of specimens, without disturbing the same. Lock and key arrangement is provided in the double walled outer door with magnetic gasket. Unit is fitted with door operated illumination lamp inside the chamber. With Automatic Timer (0-24 hours) for regulating cyclic illumination conditions.

The temperature range from 5°C to 60°C ± 0.5°C is controlled by two EGO/JUMO German, double action hydraulic capillary thermostat. Refrigeration unit is formed by hermetically sealed ISI Marked SHIRIRAM make compressor, and the cooling coils are distributed all round the chamber and lie in the air circulation path. An L-shaped prismatic thermometer is provided at the top on the front panel along with separate three indicator lamps for mains, heating and incoming voltage. Cabinet is mounted on castor wheels., cord and plug to work on 220/230V A.C. Supply. Unit is supplied with 2 K.V voltage stabilizer. **Other changes will be done on request or as per user specification..**

ASE-102 INCUBATOR (SUPER DELUXE AUTOMATIC DIGITAL MODEL) **ALPHA[®]**

Fitted with Electronic Digital Indicator-cum-Controller for Heating & Cooling. Castor wheel mounted cabinet is Triple walled with inner & Outer chamber of stainless steel between the outer and the inner wall is filled with super grade glass wool to prevent thermal losses. (Full view inner Plexi glass door) Temperature range + 5°-50°C . Temperature accuracy ± 0.5°C. CFC free compressor of ISI "KIRLOSKER". Triple wall. Long lasting Stainless steel tubular heaters with Air circulating fan for uniform temperature. Fitted with load indicator and safety. Thermostat take over indicator lamp. LED/LCD indicator. Unit is supplied with voltage stabilizer. With 3 shelves made of stainless Steel, door swing 65 cms. Lock and key arrangement. Safe and user friendly. **Other specification as per cat. No.ASE-101. Other changes will be done on request or as per user demand.**

Available in following sizes.

INSIDE CHAMBER SIZE (WXHxD)	CAPACITY	ALUMINIUM	S.STEEL
(a) 420mm. x 560mm. x 380mm.	3 cu.ft.		
(b) 500mm. x 840mm. x 410mm.	6 cu.ft.		
(c) 700mm. x 900mm. x 650mm.	10 cu.ft.		
(d) 620mm. x 1020mm. x 520mm.	12 cu.ft.		



ASE-102

OPTIONAL ACCESSORIES

- (a) Interior illumination with 3 Nos. fluorescent tubes of 60cm, length
(Note when the tubes are 'ON' temperature can be obtained from 10°C to 50°C)
- (b) Automatic Timer (0-24 hours) for regulating cyclic illumination conditions.
- (c) Arrangement for incubation of CO₂/Air mixture.
- (d) Air Compressor for use with above.
- (f) Shaking machine to be fitted inside the chamber.
- (g) Humidity from 55% to 95% is controlled by Humidistat. Humidity is created by latest MOTORISED HUMIDIFIER SYSTEM using SPLASH PLATE technology or day and night.
- (h) Dual setting Digital Temperature Controller for setting two different temperature for day and night.
- (i) Electronic Digital Temperature & Humidity Indicator-cum-Controller.
- (j) Exterior illumination system with two tube lights on both sides.
- (k) Automatic Voltage Stabilizer 3 KVA.
- (l) Chart Type Temperature Recorder.
- (m) Carbon dioxide Cylinder

Manufactured By : SUDARSHAN CHEMICALS India 324007 0744-2362345, 09414188018

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ASE-102

ASE-102 Incubator (Low Temperature)

ALPHA[®]

This is the most versatile low temperature indicator for Biochemical Oxygen Demand determinations. Triple walled stainless steel body with sealing of PUF or High grade Glasswool insulation between walls with inner made of mild Steel duly powder coated & outer chamber of stainless steel 304 grade. Triple walled unit is fitted with two air circulation system is provided by a F.H. Motor with a fans for maintaining temperature uniformly throughout the chamber. Heating elements of nichrome wire are placed in the air path and are duly insulated from the body. The inner chamber is ribbed for placement of three shelves at desired heights. Adjustable ventilation rate 10 to 100 % thin from air circulation. Full view inner Acrylic Plexi glass door permits inspection of specimens, without disturbing the same. Insulated door fitted with heavy hinges handles locking, mechanical door lock. Double walled outer door with silicon rubber magnetic gasket . Unit is fitted with door operated illumination lamp inside the chamber. The Unit is capable of Operating Continuously in ambient temp of 10-45 °C temp. It is equally distributed in whole in incubator.

The temperature range from 5° to 80° C with accuracy $\pm 0.5^{\circ}\text{C}$ Resolution, environment friendly refrigerant is controlled by LCD Solid State Digital Temperature Indicator-cum-Controller Microprocessor PID controller with PT-100 sensor, Recovery time short, precise regulation of temp and acoustic alarm. Refrigeration unit is formed by Hermetically sealed single CFC-Free compressor with thermostat capable of maintaining temperature below the ambient condition and Cutoff system HRC fuses for compressor heater and main, time delay circuit for safety of compressor seated ISI Marked compressor, and the cooling coils are distributed all round the chamber and lie in the air circulation path. On the top of front panel separate three indicator lamps for mains, heating and incoming voltage. Cabinet is mounted on castor wheels., cord and plug to work on 220/230V A.C. Supply. Unit is supplied with 2 K.V voltage stabilizer. *Other changes will be done on request or as per user specification..*

Available in following sizes.

INSIDE CHAMBER SIZE (WXHxD)

CAPACITY

(a)	420mm. x 560mm. x 380mm.	3 cu.ft.
(b)	500mm. x 840mm. x 410mm.	6 cu.ft.
(c)	605mm. x 910mm. x 605mm.	10 cu.ft.
(d)	620mm. x 1020mm. x 520mm.	12 cu.ft.

OPTIONAL ACCESSORIES

- (a) Interior illumination with 3 Nos. fluorescent tubes of 60cm, length
(Note when the tubes are 'ON' temperature can be obtained from 10°C to 50°C)
- (b) Automatic Timer (0-24 hours) for regulating cyclic illumination conditions.
- (c) Arrangement for incubation of CO₂/Air mixture.
- (d) Air Compressor for use with above.
- (f) Shaking machine to be fitted inside the chamber.
- (g) Humidity from 55% to 95% is controlled by Humidistat. Humidity is created by latest MOTORISED HUMIDIFIER SYSTEM using SPLASH PLATE technology or day and night.
- (h) Dual setting Digital Temperature Controller for setting two different temperature for day and night.
- (i) Electronic Digital Temperature & Humidity Indicator-cum-Controller.
- (j) Exterior illumination system with two tube lights on both sides.
- (k) Automatic Voltage Stabilizer 3 KVA.
- (l) Chart Type Temperature Recorder.
- (m) Carbondioxide Cylinder

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ASE-104 ORBITAL SHAKING INCUBATORS

Body made of thick stainless steel sheet (SS 304 GRADE).Top lid is made up of transparent see through plexi glass. Noise less less than 65 db(A) variable speed upto 25 to 400 RPM rotary shaker platform is fitted with IMPORTED DC Brushless DRIVEN MOTOR for continuuus operation.ALL "ALPHA" unit are also fitted with MICROPROCESSOR DIGITAL RPM/SPEED INDICATOR The shaking platform can accomodate Max shaking capacity tray for 100 ml x 49, 150mm x 49, 250ml x 33, 500ml x 24, 1000ml x 15, 2000ml x 9. is provided at the base of incubator so as to shake erlynmeyer flasks. Complete with Timer.The variable speed motor is fitted outside of the inner chamber, at the base. Puf insulation to eliminate void pockrts. Illumination 8 watts fluorescent lamp.

The complete unit is mounted on a sturdy angle iron frame. Temperature is controlled by Large size Display Microprocessor Based PID Digital Temperature Indicator - Cum- Controller from ambient to $70^{\circ}\pm 0.5^{\circ}\text{C}$. The unit is fitted with air circulation fan for Temperature uniformity. To work on 220/230 volts A.C. Supply. Audio Visual Alarm.Complete with voltage Stabilizer etc.

Platform Size : 550 x 550 mm. (Cap.200 ltrs.)

Available in following sizes.

INSIDE CHAMBER SIZE (WXHxD)

- (a) 420mm. x 560mm. x 380mm.
- (b) 500mm. x 840mm. x 410mm.
- (c) 700mm. x 900mm. x 650mm.
- (d) 620mm. x 1020mm. x 520mm.

CAPACITY

- 3 cu.ft.
- 6 cu.ft.
- 10 cu.ft.
- 12 cu.ft.

OPTIONAL ACCESSORIES

- (a) Interior illumination with 3 Nos. flourescent tubes of 60cm, length
(Note when the tubes are 'ON' temperature can be obtained from 10°C to 50°C)
- (b) Automatic Timer (0-24 hours) for regulating cyclic illumination conditions.
- (c) Arrangement for incubation of CO_2 /Air mixture.
- (d) Air Compressor for use with above.
- (f) Shaking machine to be fitted inside the chamber.
- (g) Humidity from 55% to 95% is controlled by Humidistat. Humidity is created by latest MOTORISED HUMIDIFIER SYSTEM using SPLASH PLATE technology or day and night.
- (h) Dual setting Digital Temperature Controller for setting two different temperature for day and night.
- (i) Electronic Digital Temperature & Humidity Indicator-cum-Controller.
- (j) Exterior illumination system with two tube lights on both sides.
- (k) Automatic Voltage Stablizer 3 KVA.
- (l) Chart Type Temperature Recorder.
- (m) Carbondioxide Cylinder

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ASE-104 SHAKING INCUBATORS

Body made of thick stainless steel sheet (SS 304 GRADE). Top lid is made up of transparent see through plexi glass. Noise less less than 65 db(A) variable speed upto 25 to 600 RPM rotary shaker platform is fitted with IMPORTED DC Brushless DRIVEN MOTOR for continuuus operation. ALL "ALPHA" unit are also fitted with MICROPROCESSOR DIGITAL RPM/SPEED INDICATOR The shaking platform can accomodate Max shaking capacity tray for 50ml x 4, 100 ml x 4, 250ml x 3, 500ml x 3, 1000ml x 5, a provided at the base of incubator so as to shake erlynmeyer flasks. Complete with Timer. The variable speed motor is fitted outside of the inner chamber, at the base. Puf insulation to eliminate void pockrts. Illumination 8 watts fluorescent lamp.

The complete unit is mounted on a sturdy angle iron frame. Temperature is controlled by Large size Display Microprocessor Based PID Digital Temperature Indicator - Cum- Controller from ambient to $70^{\circ}\pm 0.1^{\circ}\text{C}$. The unit is fitted with air circulation fan for Temperature uniformity. To work on 220/230 volts A.C. Supply. Audio Visual Alarm. Complete with voltage Stabilizer etc.

Platform Size : 340 x 370 mm.

Available in following sizes.

INSIDE CHAMBER SIZE (WXHxD)

		CAPACITY
(a)	420mm. x 560mm. x 380mm.	3 cu.ft.
(b)	500mm. x 840mm. x 410mm.	6 cu.ft.
(c)	700mm. x 900mm. x 650mm.	10 cu.ft.
(d)	620mm. x 1020mm. x 520mm.	12 cu.ft.

OPTIONAL ACCESSORIES

- (a) Interior illumination with 3 Nos. flourescent tubes of 60cm, length
(Note when the tubes are 'ON' temperature can be obtained from 10°C to 50°C)
- (b) Automatic Timer (0-24 hours) for regulating cyclic illumination conditions.
- (c) Arrangement for incubation of CO_2 /Air mixture.
- (d) Air Compressor for use with above.
- (f) Shaking machine to be fitted inside the chamber.
- (g) Humidity from 55% to 95% is controlled by Humidistat. Humidity is created by latest MOTORISED HUMIDIFIER SYSTEM using SPLASH PLATE technology or day and night.
- (h) Dual setting Digital Temperature Controller for setting two different temperature for day and night.
- (i) Electronic Digital Temperature & Humidity Indicator-cum-Controller.
- (j) Exterior illumination system with two tube lights on both sides.
- (k) Automatic Voltage Stablizer 3 KVA.
- (l) Chart Type Temperature Recorder.
- (m) Carbondioxide Cylinder

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ASE-112

ASE-112 De-Humidifier

"Alpha" Dehumidifiers are water condensing type, base on "Refrigeration Cycle" to avoid use of expensive chemicals required for dessicant type models. The unit is self standing and is mounted on a study angle iron frame, fitted with castor wheels.

Dehumidifier removes excess moisture from the atmosphere and it fitted with hermatically sealed SHRIRAM/KIRLOSKAR compressor. Heat exchanger and water condensing coils are made of copper. Fitted with heavy duty single shaft motor with fan, for long throw of dehumidified air and better circulation in the room. Water collection tank is provided below the unit to collect condensate water. Humidity is controlled by automatic HUMIDISTAT incorporated in the unit, upto 30% + 3% RH., depending upon the ambient conditions.

Since the tendency of the moisture always is to from higher moisture zone to lower moisture zone, to maintain best conditions the room should be properly dealed with minimum number of persons working inside and should also avoid fraquent opening of the door.

To Achieve very low humidity, the room should have a independent window type Air Conditioner. While selecting the capacity of the Air Conditioner, it is necessary to add another 1/2 tone Air Conditioning capacity to match with the dehumidifier heat load in the room.

Suitable to work on 220/230 Volts A.C. Supply.

Available in following sizes :

- (a) 1 Tonne (To cover a volume of 1000 Cu. ft.)
- (b) 1.5 Tonne (To cover a volume of 1500 Cu. ft.)

OPTIONAL ACCESSORIES

- (a) Automatic Voltage Stabilizer 4.0 KVA.

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ASE-150
Thermostat or
Microprocessor Based
Digital



ASE-209



ASE-209

ASE-150 Tissue Flotation Bath ALPHATM

This double walled unit is most suited for preparing wrinkle free tissue specimens. Inside is made up of aluminium single piece Aluminium black colour anodized with dust guard lid made of aluminium and outside of M.S. Sheet duly powder coated. Temperature range from ambient to $70^{\circ}\text{C} \pm 1^{\circ}\text{C}$ is and plug to work on 220/230V A.C. Supply. Microprocessor Based PID controller.

Other changes will be done on request or as per user specification..

- (a) Size : 250mm (dia) x 70-110 mm x 50mm (depth)
- (b) Size : 240mm (dia) x 150mm x 50mm (depth)

ASE-209 Heating Mantle (Made of Glass Yarn) ALPHATM

Suitable for Laboratories, Chemicals, Pharmaceuticals, Dyes, Glass Plants etc. Particularly useful for Heating inflammable liquids. Flexible heating element ensures minimum risk of flask breakage. These controlled and Ceramic fiber insulation keeps the chemical resistant polypropylene case cool. Built in power controller has dial markings from 1 to 10 for repeatability. Mantles should have indicator lights for power on and heater on. All mantles are double fused and include a single support rod clamp that accepts a 1/2" rod. Durable chemical resistant polypropylene/Non corrosive aluminium housing Electric heating net is hand knitted from glass yarn and there is no joint to maintain the strength of the yarn and stands high temperature up to 350°C . Grounded electro mantles feature a built in power regulator and safety earth (ground) screen Unique ventilation slots or without ventilation slots keep the exterior safe to the touch even while in use. The replaceable coiled heating element is suspended within a thermal insulating cartridge to provide maximum heat transfer and support. Mantles include 2 meter power cord with India plug. The body of the mantle is spun one piece from non-rusting mantles are lagged with special grade mineral wool. The stainless steel grounding screen provides added protection against shock in the event of spillage or flask breakage To work on 220/230 Volts. A.C. Other changes will be done on request or as per user specification..

	CAPACITY	WITH ENERGY REGULATOR	SPARE MANTLE
(a)	50ml or 100ml		
(b)	250 ml or 500ml		
(c)	1Ltr.		
(d)	2Ltr.		
(e)	3Ltr.		
(f)	5Ltr.		
(g)	10Ltr.		
(h)	20 Ltr.		
(i)	50 Ltr		
(j)	5-250 & 500 ml(multi)		
(k)	250 & 1000ml(multi size)		

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ASE-150
Thermostat or
Microprocessor Based
Digital



ASE-151

ASE-150 Tissue Flotation Bath ALPHATM

This double walled unit is most suited for preparing wrinkle free tissue specimens. Inside is made up of aluminium single piece Aluminium black colour anodized with dust guard lid made of aluminium and outside of M.S. Sheet duly powder coated. Temperature range from ambient to $70^{\circ}\text{C} \pm 1^{\circ}\text{C}$ is and plug to work on 220/230V A.C. Supply. Microprocessor Based PID controller.

Other changes will be done on request or as per user specification..

- (a) Size : 250mm (dia) x 70-110 mm x 50mm (depth)
- (b) Size : 240mm (dia) x 150mm x50mm (depth)

ASE-151 Tissue Flotation Bath Rectangular ALPHATM

This double walled unit is most suited for preparing wrinkle free tissue specimens. water bath provide high thermal conduction rate. Inside is made up of aluminium single piece Aluminium black colour anodized with dust guard lid made of aluminium and outside of M.S. Sheet duly powder coated.Led display of programme and current temperature and selected temperature be memorized via b built in battery backup.display water proof and easily cleanable. The Rim of water bath allow storage of microscope slides and it have a good size. Temperature range from ambient to $75^{\circ}\text{C} \pm 1^{\circ}\text{C}$ is and plug to work on 220/230V A.C. Supply. There is visual indicator against overheating.Microprocessor Based PID controller.It have a stand by mode. Ensure safety and reliability features for overheating

Other changes will be done on request or as per user specification..

- (a) Size : 225mm (dia) x 70mm x 40mm (depth)
- (b) Size : 240mm (dia) x 150mm x 50mm (depth)

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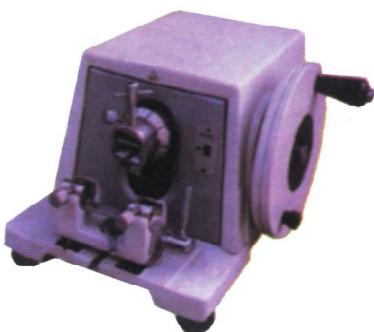
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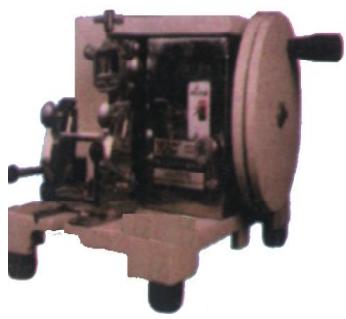


ALPHATM
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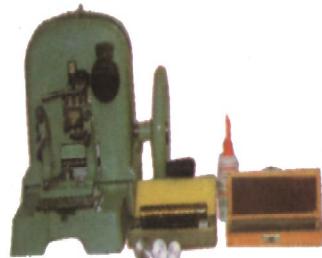
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ASE-245



ASE-246



ASE-247

ASE-245 Precision Rotary Microtome (A.O.Spencer type) *ALPHATM*

it has a front located feed indicator with CAM DRIVE SYSTEM setting from 1-50 microns in steps of 1 micron each. The object clamp takes specimen upto 32 x 27 m.m. on stem of block holder. The cutting angle is adjustable through 30 degrees. Two levers are provided for releasing knife holder for resetting angle and a third lever releases the entire assembly for movement on side ways to adjust horizontal distance from object, Supplied with one knife of special alloy steel 120 m.m long with back and handle in box, 2 block holders, one bottle of lubrication oil and dust cover. *Other changes will be done on request or as per user specification.*

ASE-246 Precision Rotary Microtome (Lipshaw type) *ALPHATM*

IT IS USEFUL FOR SECTIONING OF BONE TISSUE. The wheel is counted balanced with locking device and has automatic feed and release mechanism. A light cover hinged at back is provided for protection of internal parts from dust. Feed range of 1-50 microns in step of 1 micron each. is controlled smoothly by DIAL CONTROL in the rigid front position. For easy positioning of the object to the knife and for returning the feed to the starting position, the feed crank is located at the side of the microtome and the feed pawl automatically ceases to function when the feed reaches the extreme forward position. It incorporates ball and flange type object for positioning of the object at desired position. Complete with 120 m.m. knife with back and handle in case. 6 block holders, honing stone, bottle of lubrication oil and dust cover.*Other changes will be done on request or as per user specification.*

ASE-247 Precision Rotary Microtome (ERMA Japan type) *ALPHATM*

It incorporates a ball and flange type object holder for specimen centring. Knife holder with lateral movement permits use of complete knife edge and has a feed range of 1-25 micron in steps of 1 micron each. Supplied complete with one knife 120 m.m long with back and handle in box, 3 block holder, one honing stone, one bottle of lubrication oil and dust cover. *Other changes will be done on request or as per user specification.*

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ASE-602

ASE-602 Over Head Projector :^{ALPHA[®]}

Overhead projector is a compact and precise audio visual instrument for making the lectures and teaching effective. You can write, draw or sketch your illustrations on the wall or screen. This type of system thus makes the lectures and teaching more interesting and eliminated the unpleasant use of chalks and black board.

SPECIFICATIONS

Construction : 350 mm x 425 mm 252 mm height, light weight metallic chamber in compact model.

Projection Lens: Double Fresnel Condenser lens projected with double heat resistance glass plate.

Projection Lamp: 250 watts 24 volts halogen bulb.

Cooling system: Exhaust fan, thermostatically controlled.

Focusing System: By Rack and Pinion type with positive positioning.

Projection Head: Fitted with double element lenses and surface coated mirror.

Weight : Approx. 7.9 Kgs.

Complete with cellophane roll, grease pencils and dust cover. Packed in accord board box with thermocoal packing. Folding head type superior type.

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ASE-104

ASE-104 Seed Germinator (Single Chamber) ALPHATM

Most suitable for conducting various experiments on a variety of seeds under different conditions of temperature and humidity. Atmospheric conditions are created within the chamber to perform different experiments without going onto the field. The double walled unit has inner chamber made up of anodised aluminium or S.S. and outer chamber of M.S. Sheet duly painted. Temperature from 5°C to 50°C + 1°C is controlled by EGO/JUMO German capillary type thermostat. Humidity (NOT ADJUSTABLE) is created in a S.S. water reservoir fitted at the bottom to provide 90% to 95% + 3% RH Humidity. Supplied complete with 14 adjustable perforated trays. Complete with cord and plug to work on 220/230V A.C. supply. **Other changes will be done on request or as per user specification.**

INSIDE CHAMBER SIZE (WXHxD)

(a) 600mm. x 920mm x 615mm.

ALIMINIUM

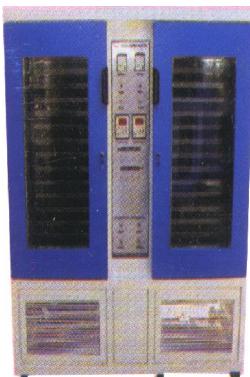
S.STEEL

OPTIONAL ACCESSORIES

- (a) Exterior lighting arrangement (on both sides)
- (b) Automatic timer (0-24 hours)
- (c) Humidity control arrangement from 55% to 95% + 3% RH, controlled by Humidistat. Humidity is created by latest MOTORESED HUMIDIFIER SYSTEM using SPLASH PLATE technology or through steaminjection.
- (d) Electronic Digital Temperature Indicator-cum-Controller.
- (e) Dual Setting Digital Temperature Controller for setting two different temperatures for day and night.
- (f) Automatic Voltage Stabilizer 3 KVA.

ASE-105 Seed Germinator (Dual Chamber) ALPHATM

Most suitable for conducting various experiments on a variety of seeds under different conditions are created within the chamber to perform different experiments without going onto the field. The double walled unit has inner chamber made up of anodised aluminium or stainless steel and outer chamber of M.S. sheet duly painted. Full view inner glass door permits inspection of specimens. Both compartments are provided with independent controls. Each chamber can accomodate 14 perforated trays of size 430x480 mm. each. Humidity (NOT ADJUSTABLE) is created in a S.S. water reservoir fitted at the bottom, in both chambers, to create 90% to 95% + 3% RH humidity. Each chamber is fitted with seperate controls. Temperature of both the chambers is controlled separately by EGO/JUMO German hydraulic type thermostat. Other changes can be done on request or as per user demand. **Other changes will be done on request or as per user specification.**



INSIDE CHAMBER SIZE (LXBXH) (of each chamber)

600mm. x 920mm x 615mm.

ALIMINIUM

S.STEEL

(a) One chamber can control temperature from ambient to 50°C + 1°C and the other chamber is fitted with I S Marked SHRIRAM compressor so as to maintain temperature from 5°C to 50°C + 1°C in both chambers.

INSIDE CHAMBER SIZE (LXBXH) (of each chamber)

473mm. x 580mm x 880mm.

ALIMINIUM

S.STEEL

OPTIONAL ACCESSORIES

- (a) Interior illumination with 3 Nos. florescent tubes (for each chamber)
- (b) Exterior illumination with 3 Nos. fluorescent tubes (for each chamber)
- (c) Automatic 0-24 hour Timer to regulate cyclic illumination conditions (for each chamber)
- (d) Humidity control arrangement from 55% to 95% + 3% RH, controlled by humidistat.
- (e) Electronic Digital Temperature Indicator-cum-Controller (for each chamber).
- (f) Dual setting Digital Temperature Controller for setting two different temperatures for day and night (for each chamber).
- (g) Automatic Voltage Stabilizer 3 KVA (for each chamber).

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ASE-167 Rotary Flasks Shaker ALPHATM

Used extensively for tissue culture work, aeration of fermentation and other chemical procedures. Designed for continuous shaking of solutions in Erlenmeyer Flasks from 50ml to 1000ml capacity. It is a compact bench type table top model with platform fitted with rubber discs mounted on ball bearing crank shafts to give an orbital motion to the flasks, within a diameter of approximately 2". The motor is coupled by means of a V-belt with pitch pulley, and is mounted on a heavy and sturdy angle iron frame. The machine can be supplied with fixed or variable speed, controlled by mechanical speed controller. To work on 220/230 volts A.C. Supply. Other changes will be done on request or as per user specification.

PLATFORM SIZE	HOLDING CAPACITY	FIXED SPEED	VARIABLE SPEED
(a) 45x45cm.	49 flasks of 25ml.	0.25 HP	
(b) 45x45cm.	36 flasks of 50ml.	0.25 HP	
(c) 45x45cm.	25 flasks of 100ml.	0.25 HP	
(d) 45x45cm.	16 flasks of 250ml.	0.25 HP	
(e) 45x45cm.	09 flasks of 500ml.	0.25 HP	
(f) 95x95cm.	50 flasks of 250ml.	0.25 HP	
(g) 55x55cm.	16 flasks of 500ml.	0.25 HP	
(h) 65x65cm	36 flasks of 250ml.	0.50 HP	
(i) 65x65cm.	25 flasks of 500ml.	0.50 HP	
(j) 105x105cm.	81 flasks of 250ml.	1.00 HP	
(k) 105x105cm.	64 flasks of 500ml.	1.00 HP	
(l) 105x105cm.	49 flasks of 1000ml.	1.00 HP	



ASE-167&168

OPTIONAL ACCESSORIES

- (a) Spare platform having configuration other than the one supplied with the unit
(Kindly mention capacity of tasks)

Size : 45x45cm. 55x55cm. 105x105. 180x180cm.

PRICE:

ASE-168 Shaking Machine Rotary Horizontal (Heavy Duty Continous Rating) ALPHATM

These units are designed for continuous operations and are heavy duty continuous rating fitted with electronic REGAVOLT (AUTO-TRANSFORMER) for controlling speed. The unit is fitted with D.C. Motor and control panel for converting A.C. Mains to D.C. Platform with any configuration can be provided i.e. nos of flasks to hold on platform depends on the capacity of the flasks. Other changes will be done on request or as per user specification.

- (a) Platform size 18"x18" (With DC motor and control panel)
(b) -do- but with transparent platform fitted with fluorescent tube lights.
(c) Platform size 24"x24" (With DC motor and control panel)
(d) -do- but with transparent platform fitted with fluorescent tube lights.
(e) Platform size 36"x36" (With DC motor and control panel)
(f) -do- but with transparent platform fitted with fluorescent tube lights.
(g) Platform size 48"x48" (With DC motor and control panel)
(h) -do- but with transparent platform fitted with fluorescent tube lights.



OPTIONAL ACCESSORIES

- (a) Automatic 0-24 hrs. timer to regulate cyclic illumination conditions.

ASE-169 V.D.R.L. Rotator (Rotating Shaker) ALPHATM

Used for V.D.R.L Tests, blood grouping tests, various agglutination tests or for mixing of solutions in small bottles, flasks or beakers. It has a platform of size 300x300mm. and can accommodate blood bottles, slides or flasks using a spring holder. Rotation 180 RPM, continuously. Supplied complete with cord and plug, to work on 220/230 volts A.C. supply. Other changes will be done on request or as per user specification.

Fixed speed model

Variable speed model.

OPTIONAL ACCESSORIES

- (a) Automatic 0-60 minutes timer.
(b) Digital RPM With Timer

ASE-169

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ASE-239



ASE-240



ASE-241

ASE-239 STEEL RACKS

Steel racks 7 shelves including top adjustable shelves standard nuts & strips slotted angles corner plates 2" iron strips plastic feet L section, plastic feet T section grey or olive green (color) red oxide paint 6" about then bottom Gauze :20 Size 90" x 30" x 20

ASE-240 STAINLESS STEEL LARGE ALMIRAH

Stainless steel large almirah made of steel, fine finished cream colored paint. Internal godrej lock with two keys. Made of 20 gauze sheet, It have three partitions with four compartments. it have at least one compartment of 24 inches separation with middle partition for one inside locker.

Size 72 x 34 x 18 inches size with stand of 5 inches height.

ASE-241 STAINLESS STEEL LOCKER

Large size of 6 lockers made of steel, fine finished cream colored paint. It have eight (8) compartments each measuring facility for external lock separately for each compartment. It have stand of 5 inches height. Made of 20 gauze sheet. Size (H X W X D) 18 x 18 x 18 inches.

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ASE-251



ASE-256

ASE-251 CABINETS FOR SLIDE BOXES **ALPHA[®]**

Made up of Steel with lock & key

Size L4' x W 2.5' x D2'

ASE-256 SLIDES BOXERS **ALPHA[®]**

Wooden Slide Boxes capacity 100 slides

Numbered index file sheet on the inside cover

Form liner base

209 x 172 x 32 mm

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ASE-602

ASE-602 Over Head Projector :

Overhead projector is a compact and precise audio visual instrument for making the lectures and teaching effective. Most compact, light weight and study model equipped with 600 watts, halogen lamp to ensure optimum brightness in projection. best quality double fresnel..... and most efficient their most compact, light weight and sturdy model equipped with 600 statically controlled cooling system. You can write, draw or sketch your illustrations on the wall or screen. This type of system thus makes the lectures and teaching more interesting and eliminated the unpleasant use of chalks and black board.

SPECIFICATIONS

Construction : Writing surface 250 mm x 250 mm 250 mm height, light weight metallic chamber in compact model.

Projection Lens: Double Fresnel Condenser lens projected with double heat resistance glass plate.

Projection Lamp: 250 watts 24 volts halogen bulb.

Cooling system: Exhaust fan, thermostatically controlled.

Fabricated : From fiber supplied complete with cellophane roll and with its attachment cleaning cloth

Focusing System: By Rack and Pinion type with positive positioning.

Projection Head: Fitted with double element lenses and surface coated mirror.

Weight : Approx. 7.9 Kgs.

Complete with cellophane roll, grease pencils and dust cover. Packed in accord board box with thermocoal packing. Folding head type superior type.

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SC - 216A FOWLER BED FOUR SECTION (DELUXE) WITH RAILING

HOSPITAL BED (FOWLER) WITH MOULDED HEAD AND LEG PANEL PERFORATED SHEET TOP.

ADJUSTABLE BACK REST & LEG SECTION BY MEANS OF TWO INDEPENDENT CRANKS, CRC SHEET OF 18G AND CRC PIPE OF 16G , 60MMX30MM CRCA TUBULAR FRAME WORK. HOSPITAL BED (FOWLER) WITH MOULDED HEAD AND LEG PANEL. ABS MOULDED DRIVING HANDLES WITH POSITION INDICATIONS. POLYMER MOULDED HEAD AND FOOT BOARDS. A PAIR OF NEW TYPE COLLAPSIBLE SIDE RAILING (1320MM) LENGTH APPROX

FOUR CORNER RUBBER BUFFER, STAINLESS STEEL I.V. ROD WITH SIX LOCATION, HEAD RAISE AND KNEE FOLD RAISE WITH HANDLES. SPECIAL HOOKS FOR URINE DRAINAGE BAG. HEAVY DUTY 125 MM FOUR SWIVELLING CASTORS 2 WITH BRAKES, PRETREATED EPOXY POWDER COATED FINISHED

SIZE (206Lx98Wx56H) IN CM AND MATTRESS SURFACE (198Lx90W)
OVERALL SIZE 2350MM (L)x1050(W)x590MM(H)

OTHER CHANGES CAN BE DONE ON REQUEST OR AS PER USER SPECIFICATION.

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ASE-116 eSS

ASE-116 SIX BODIES MORTUARY CHAMBER

Used for storing cadaverous under low temperature cool conditions in order to prevent decomposition. Most Useful for Hospitals, Airports, Railways etc. These units are double walled with inner & outer made of 304 grade Stainless Steel Sheets. Foamed Panels Insulation thickness of panel 75 mm. The gap between inner and outer chamber is filled with Puff (CFC Free)Density 40 kg / m³. to avoid thermal loss. Air circulation by forced Air circulation. Front door with stainless steel SS 304 Grade with provision for numbering & tag on each door. The front face lifting hinged door is lined with magnetic gasket and it fitted with lock and key. One piece Stainless Steel trays with telescopic Mechanism to carry dead bodies are provided with handles so as to carry dead bodies. Drainages system given to wash the unit inside the chamber. Trays travel on rollers fitted for easy movement. CFC free Hermetically sealed heavy duty compressor serves refrigeration unit outside the chambers with 10000 capacity (BTU/H) per unit . Condenser is Efficient with Auto condensate evaporating system, Temperature range of 02°C to 5°C. Unit is fitted with Digital Temperature Indicator-cum-Controller (LED/LCD) with Audio-Visual Alarms to warn High and Low Temperatures with Internal Lighting . It have double ISI make compressor cooling unit with individual temperature controller cum indicator unit, if main unit fails refrigeration control shift to stand by unit. Automatic time cycling between main and standby unit. The unit is Supplied complete with trays, cord and plug, to work on 220/230 volts A.C Supply. Supply with Voltage Stabilizer.

Additional features:

Standby Arrangement system if main system failures.

CAPACITY 02° to 5 °C

- (e) Six human bodies. L or D x W x H as 7.5feet x 9 feet x 5 feet)

OPTIONAL ACCESSORIES

Temperature Recorder, Data Logger, Voltage safety system, Alarm System for various parameters battery backup rechargeable.

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ASE-116

ASE-116 MORTUARY CHAMBER WITH COOLER ARRANGEMENT *ALPHATM*

Used for storing cadaverous under low temperature cool conditions in order to prevent decomposition. Most Useful for Hospitals, Airports, Railways etc. These units are Doubled wall with SS 304 prefabricated panels for outer surface and stainless steel. Inner and external chamber with insulation in between of cyclopentane puf 80 mm density 40Kg/m³. Both side sheet thickness will be 0.4mm. Air circulation by forced Air circulation. Front door with stainless steel SS 304 Grade with provision for numbering & tag on each door. The front face lifting hinged door is lined with magnetic gasket and it fitted with individuals lock and keys in duplicate for individual dead bodies. One piece Stainless Steel six trays with telescopic Mechanism to carry dead bodies are provided with handles so as the carry dead bodies. Drainages system given to wash the unit inside the chamber. Trays with handles at both ends travel on rollers fitted for easy movement. CFC free Hermetically sealed heavy duty compressor serves refrigeration unit outside the chambers with 10000 capacity (BTU/H) per unit. Defrosting automatic type. Condenser is Efficient with Auto condensate evaporating system, Temperature range of 02°C to 8°C. Unit is fitted with Microprocessor Digital controller (LED/LCD) with Audio-Visual Alarms to warn High and Low Temperatures with Internal Lighting .Complete with Temp chart recorder be supplied and installed. Service will be available within 24 hours for any break down in the unit with ready spare parts. It have double ISI make compressor cooling unit with individual temperature controller cum indicator unit, if main unit fails refrigeration control shift to stand by unit. Automatic time cycling between main and standby unit. The unit is Supplied complete with trays, cord and plug, to work on 220/230 volts. It have internal lighting water proof fluorescent lamp. The unit supplied with Suitable MCB, Wire 7 cables, earthing facility, suitable stabilizer, heavy duty exhaust fan etc and the complete installation including other accessories and minor civil work (construction of platform etc) A.C Supply. Supply with Voltage Stabilizer.

Additional features:

Standby Arrangement system if main system failures.

CAPACITY 02° to 8°C

Size approx 2000 mm width x 2300 depth x 1700 mm height external, approx 2200 mm height

OPTIONAL ACCESSORIES

Temperature Chart Recorder, Data Logger, Voltage safety system, Alarm System for various parameters battery backup rechargeable.

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ASE-116 eSS

ASE-116 SIX BODIES MORTUARY CHAMBER

ALPHA[®]

Used for storing cadaverous under low temperature cool conditions in order to prevent decomposition. Most Useful for Hospitals, Airports, Railways etc. These units are double walled with inner & outer made of 304 grade Stainless Steel Sheets. Foamed Panels Insulation thickness of panel 75 mm. The gap between inner and outer chamber is filled with Puff (CFC Free)Density 40 kg/m³. to avoid thermal loss. Air circulation by forced Air circulation. Front door with stainless steel SS 304 Grade with provision for numbering & tag on each door. The front face lifting hinged door is lined with magnetic gasket and it fitted with lock and key. One piece Stainless Steel trays with telescopic Mechanism to carry dead bodies are provided with handles so as the carry dead bodies. Drainages system given to wash the unit inside the chamber. Trays travel on rollers fitted for easy movement. CFC free Hermetically sealed heavy duty compressor serves refrigeration unit outside the chambers with 10000 capacity (BTU/H) per unit . Condenser is Efficient with Auto condensate evaporating system, Temperature range of 02°C to 5°C. Unit is fitted with Digital Temperature Indicator-cum-Controller (LED/LCD) with Audio-Visual Alarms to warn High and Low Temperatures with Internal Lighting . It have double ISI make compressor cooling unit with individual temperature controller cum indicator unit, if main unit fails refrigeration control shift to stand by unit. Automatic time cycling between main and standby unit. The unit is Supplied complete with trays, cord and plug, to work on 220/230 volts A.C Supply. Supply with Voltage Stabilizer.

Additional features:

Standby Arrangement system if main system failures.

CAPACITY **02° to 5 °C**

- (e) Six human bodies. L or D x W x H as 7.5feet x 9 feet x 5 feet)

OPTIONAL ACCESSORIES

Temperature Recorder, Data Logger, Voltage safety system, Alarm System for various parameters battery backup rechargeable.

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ASE-116

ASE-116 6 BODIES MORTUARY CHAMBER ALPHATM

Used for storing cadaverous under low temperature cool conditions in order to prevent decomposition. Most Useful for Hospitals, Airports, Railways etc. These units are double walled with outer surface chemically coated, antirust coated with powder coated paint on Galvanized Iron Sheet & inner made of 304 grade Stainless Steel Sheets. Foamed Panels Insulation thickness of panel 75 mm. The gap between inner and outer chamber is filled with Puff (CFC Free)Density 40 kg/m³. to avoid thermal loss. Air circulation by forced Air circulation. Front door with stainless steel SS 304 Grade with provision for numbering & tag on each door. The front face lifting hinged door is lined with magnetic gasket and it fitted with lock and key. One piece Stainless Steel trays with telescopic Mechanism to carry dead bodies are provided with handles so as the carry dead bodies. Drainages system given to wash the unit inside the chamber. Trays travel on rollers fitted for easy movement. CFC free Hermetically sealed heavy duty compressor serves refrigeration unit outside the chambers. Condenser is Efficient with Auto condensate evaporating system, Temperature range of 02°C to 5°C. Unit is fitted with Digital Temperature Indicator-cum-Controller (LED/LCD) with Audio-Visual Alarms to warn High and Low Temperatures with Internal Lighting . It have double compressor with Temperature controller cum indicator unit, if main unit fails refrigeration control shift to stand by unit. The unit is Supplied complete with trays, cord and plug, to work on 220/230 volts A.C Supply. Supply with Voltage Stabilizer.

Additional features:

Standby Arrangement system if main system failures.

CAPACITY **02° to 5 °C**

(e) Six human bodies. L or D x W H as 7.5feet x 9 feet x 5 feet)

OPTIONAL ACCESSORIES

Temperature Recorder, Data Logger, Voltage safety system, Alarm System for various parameters battery backup rechargeable.

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ASE-116

ASE-116 MORTUARY CHAMBER VERTICAL ALPHATM

Used for storing cadaverous under low temperature cool conditions in order to prevent decomposition. Most Useful for Hospitals, Airports, Railways etc. Double walled with Stainless Steel pre Fabricated panels for outer and inner surface stainless steel 304 grade chamber with insulation in between of cyclopentane Puff to avoid thermal loss 80mm, Both side sheet Thickness 0.4 mm Sheets fabricated panel greater hygiene. Air circulation by forced Air circulation. The front face lifting hinged door is lined with magnetic gasket and handle and lock arrangement with keys in duplicate for individual dead bodied.. Six Stainless Steel trays with telescopic Mechanism to carry dead bodies trays to carry dead bodies with handles at both ends are provided. Travel on rollers fitted for easy movement.. Drainages system given to wash the unit inside the chamber. Trays travel on rollers fitted for easy movement. Exterior surface anti rust coated duly finished. CFC free Hermetically sealed heavy duty compressor RTU 10000 BTU serves refrigeration unit outside top of the chambers. Condenser is Efficient with Auto condensate evaporating system, Temperature range of 020C to 80C. Unit is fitted with Micro processor Digital Temperature Indicator-cum-Controller with Audio-Visual Alarms to warn High and Low Temperatures Along with Internal Lighting water proof florescent lamp. Main switch etc. The unit is Supplied complete with trays, cord and plug, to work on 220/230 volts A.C Supply. Supply Complete wiring suitable MCB, MCB Box one earthing with Voltage Stabilizer. Heavy duty Exhaust fan will be installed in the room where the Mortuary is installed.

Approx size of the unit should be 3000mm width X 2400mm depth X1750mm height. Six Body

Additional features:

Standby Arrangement system if main system failures.

- (e) Six human bodies. 3000mm width X 2400mm depth X1750mm height Approx
- (f) Eight human bodies.3560mm width X 2400mm depth X1750mm height Approx

OPTIONAL ACCESSORIES

Temperature Chart Recorder, Data Logger, Voltage safety system, Alarm System for various parameters battery backup rechargeable.

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ASE-116B MORTUARY CHAMBER

Used for storing cadaverous under low temperature cool conditions in order to prevent decomposition. Most Useful for Hospitals, Airports, Railways etc. These units are double walled with outer surface chemically coated, antirust coated with powder coated paint on Galvanized Iron Sheet & inner made of 304 grade Stainless Steel Sheets. Mortuary chambers are frameless sandwich type PUF insulated panels, eliminating the need for the old fashioned wood frame which decomposes and causes consideration. The metal clad panel is fabricated with foamed. In-place structural polyurethane. The Tongue and groove construction provides Exceptional strength and insulation value. Mortuary chamber modular panels are made of 100% foamed 80 mm thick polyurethane insulation. Panels are bonded by an adhesive to the interior and exterior metal panel skin and then heat cured for long life and stability, each wall panel skin is formed using a double 90 degree bend on each edge to add strength and rigidity. Joints are male female tongue and groove shapes fabricated to force the male edge to contact the female edge providing an additional seal. Mechanical Penal fasters have wings which provide the necessary strength to support the cam action of the locking mechanism when the panel are drawn together.

The body of the chamber is made Of SS 304 grade corrosion resistant Stainless steel sheet 0.4mm thickness Air circulation by forced Air circulation. Front door with stainless steel SS 304 Grade with provision for numbering & tag on each door. The front face lifting hinged door is lined with magnetic gasket and it fitted with lock and key. One piece Stainless Steel trays with telescopic Mechanism to carry dead bodies are provided with handles so as the carry dead bodies. The refrigeration system is energy efficient, environment friendly and completely airtight. Low noise compressor air cooler condenser and evaporator and is housed at the TOP in an insulated compartment outside the chamber factory assembled pre charged and tested.

Drainages system given to wash the unit inside the chamber. Trays travel on rollers fitted for easy movement. CFC free Hermetically sealed heavy duty compressor 6000 BTU serves refrigeration unit outside the chambers. Condenser is Efficient with Auto condensate evaporating system, Temperature range of 02°C to 8°C. Unit is fitted with Digital Temperature Indicator-cum-Controller 24x7 (LED/LCD) with Audio-Visual Alarms to warn High and Low Temperatures with Internal Lighting . The unit is Supplied complete with trays, cord and plug, to work on 220/230 volts A.C Supply. Supply with Voltage Stabilizer.

Additional features:

Standby Arrangement system if main system failures.

It have double compressor with Temperature controller cum indicator unit, if main unit fails refrigeration control shift to stand by unit.

CAPACITY

- (a) Two human bodies
- (b) Three human bodies
- (c) Four human bodies
- (d) Six human bodies.

Dia mations approx.

- W 45" x D 94.4" x H 71"
- W 45" x D 94.4" x H 98"
- W 82" x D 94.4" x H 88"
- W 116"x D 94.4" x H 88"

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ASE-116B MORTUARY CHAMBER

Used for storing cadaverous under low temperature cool conditions in order to prevent decomposition. Most Useful for Hospitals, Airports, Railways etc. These units are double walled with outer & inner made of Stainless Steel Sheets with Handled and lock arrangement. for all chamber vertically position. The gap between inner and outer chamber is filled with Puff 80 mm approx to avoid thermal loss. Air circulation by forced Air circulation. The front face lifting hinged door is lined with magnetic gasket seal between the door and cabinet increases system efficiency side opening. Stainless Steel trays with telescopic Mechanism to carry dead bodies are provided with handles so as the carry dead bodies. Drainages system given to wash the unit inside the chamber. Refrigeration unit outside the chambers. Trays travel on rollers fitted for easy movement. Exterior surface anti rust coated duly finished. CFC free Hermetically sealed heavy duty ISI compressor with Electrical Consumption Certificate with ratting *** to ***** low noise level & minimal vibration to serves refrigeration unit outside the chambers. Condenser is Efficient with Auto condensate evaporating system, Evaporator internal forced drought system. Temperature range of 0-2°C to 4°C. Unit is fitted with LCD Digital Temperature microprocessor based Controller cum indicator , Audio-Visual Alarms to warn High and Low Temperatures. The unit is Supplied complete with trays, cord and plug, to work on 220/230 volts A.C Supply. Long electricity cable wire fitting including power point installation. Supply with 7.5 KVA Voltage Stabilizer. With three year guaranty.

Additional features:

Standby Arrangement system if main system failures.

CAPACITY

Dia mations approx.

- | | |
|------------------------|-----------------------|
| (a) Two human bodies | W 32" x D 94" x H 88" |
| (b) Three human bodies | W 32" x D 94" x H 98" |
| (c) Four human bodies | W 82" x D 94" x H 88" |
| (d) Six human bodies. | W 116"x D 94" x H 88" |

Suppled with OPTIONAL ACCESSORIES

a) **Water Purifier** 25 lit./hr. R.O. system commercial double purification by R.O. + with TDS controller delivery, Full Automatic operation with auto start and auto stop.100% pure water delivery can be fitted with water cooler.

b) **Split Air conditioner (1.5 ton)** Star rating - 5 star 230 volt Air circulation 800 M3/Hr. Sliding panel aroma pure system 6th sense power saver remote control stabilizer with fitting accessories compressor - rotatory type antibacterial filter with three year guaranty with electricity cable wire fitting including power point installation

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ASE-116 (d) MORTUARY CHAMBER 4 BODIES

Used for storing cadaverous under low temperature cool conditions in order to prevent decomposition. Most Useful for Hospitals, Airports, Railways etc. These units are double walled with outer & inner made of Stainless Steel Sheets 20 SWG grade of corrosion resistance SS 304 with Handled and lock arrangement for all chamber vertically position. Chamber is divided into four individual compartments each. The gap between inner and outer chamber is filled with polyurethane Puff 60 to 80 mm approx to avoid thermal loss. Air circulation by forced Air circulation. Automatic locking facility of carriage for storage when returned to close position. The front face lifting hinged door is lined with magnetic gasket seal between the door and cabinet increases system efficiency side opening. Stainless Steel trays with telescopic Mechanism fabricated of extruded aluminium with nylon rubber to carry dead bodies are provided with handles so as the carry dead bodies. Internal Drainages system given to wash the unit inside the chamber. Refrigeration unit outside the chambers. Trolley Trays travel on nylon rollers fitted for easy movement and can be remove out side. Exterior surface anti rust coated duly finished. CFC free Hermetically sealed heavy duty ISI 1.5 KW compressor Gas R134a/R404/R22. Condenser is Efficient with Auto condensate evaporating and defrosting system, Evaporator internal forced drought system. Temperature range of 0-2 °C to 4 °C. Unit is fitted with LCD Digital Temperature microprocessor based Controller cum indicator , Door Buzzer Alarms, Audio-Visual Alarms to warn High and Low Temperatures with power failure alarm. Temperature Chart Recorder with three weeks independent paperless & inkless weekly circular chart recorder. The unit is Supplied complete with trays, cord and plug, to work on 220/ 230 volts or 420 V Three phase A.C Supply. Long electricity cable wire fitting including power point installation. Supply with Voltage Stabilizer. With three year guaranty.Electrical Safety IEC 60601-1

Additional features:

Standby Arrangement system if main system failures.

Internal Diamations approx.

W 685 mm x D 2140mm x H 460mm

Supplied with OPTIONAL ACCESSORIES USED IN MORTUARY CHAMBER.

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ASE-116

ASE-116 CADAVER CAPACITY STORAGE REFRIGERATOR MORTUARY CHAMBER ALPHA™

Used for storing cadaverous under low temperature cool conditions in order to prevent decomposition. Most Useful for Hospitals, Airports, Railways etc. **Inside chamber & Outer body** made of stainless steel of 304 sheet, thickness 0.5 mm; rust proof with insulation thickness 80-100 mm; with vapour proof incandescent LED lamp auto on/ off illumination available in each chamber. **Tray**- telescopic stainless steel body trays of 304 sheet thickness of 18 G; with easily and smoothly movable body trays on modular system (roller type rails) with handles. Trays travel on rollers fitted for easy movement. Exterior surface anti rust coated duly finished. mortuary cabinet in one unit with separate cabinets for individual cadavers of size of about 6.5 feet (L or D) x 2.5 feet (W) x 2.5 (H) feet of each cadaver compartment of cabinet made of stainless steel. front opening hinged insulated doors with lockable doors & duplicate keys and provision for numbering and tags on each door. The front face lifting hinged door is lined with magnetic gasket and it fitted with lock and key. Stainless Steel trays with telescopic Mechanism to carry dead bodies are provided with handles so as the carry dead bodies. Drainages system given to wash the unit inside the chamber. CFC free Hermetically sealed heavy duty compressor serves refrigeration unit outside the chambers. Condenser is Efficient with Auto condensate evaporating system.

Special features suitable for use on power supply of 220-240 volts, 50 Hz frequency; supported with MCB of suitable amperes. With power backup for temperature display, It can be operable by a generator in cases of power failure. Operating temperature of 4°C (2-6 °C), with heavy duty air cooled auto cut compressor of 1.5 HP, 10,000 BTU RTU 10 cooling capability of machine with low noise level & minimal vibration, with microprocessor based electronic temperature indicator & temperature controller with digital display & recording system with temperature data records (365 days) with tabular and graphical records along with USB (pen drive & PC interface for data download. Audiovisual high and low voltage alarms with rechargeable battery backup for alarm system. There should be provision for cleaning of chambers & draining out of percolated secretions from each cabinet, with stand by non CFC & non HCFC environment friendly frost free fully automatic refrigeration system with forced air circulation in chamber Unit is fitted with Digital Temperature Indicator-cum-Controller with Audio-Visual Alarms to warn High and Low Temperatures.

It will be completely install. The units with proper earthing, such that no major loss is done at the site, machine will be rest on a cemented bar of 6 inches gap for provision for cleaning or we will provis stand.

Maintenance- 3 year guarantee with spare parts, annual maintenance contract valid for seven years, maintenance will be provide four check up visits annually for the maintenance contract period, prompt maintenance services will be provided apart from the periodical maintenance within 24 hours of breakdown. The unit is Supplied complete with trays, cord and plug, to work on 220/230 volts A.C Supply. Supply with Voltage Stabilizer.

Additional features:

Standby Arrangement system if main system failures.

CAPACITY

2° to 6 °C

- (a) Single human body,
- (b) Two human bodies
- (c) Three human bodies
- (d) Four human bodies
- (e) Six human bodies.
- (f) Eight human bodies.

OPTIONAL ACCESSORIES

Temperature Recorder, Data Logger, Voltage safety system, Alarm System for various parameters battery backup rechargeable.

Manufactured By : SUDARSHAN CHEMICALS India 324007 0744-2362345, 09414188018

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ASE-116

ASE-116 MORTUARY CHAMBER ALPHATM

Used for storing cadaverous under low temperature cool conditions in order to prevent decomposition. Most Useful for Hospitals, Airports, Railways etc. These units are double walled with outer & inner made of Stainless Steel Sheets. The gap between inner and outer chamber is filled with Puff 80-100 mm to avoid thermal loss. Air circulation by forced Air circulation. The front face lifting hinged door is lined with magnetic gasket and it fitted with lock and key. Stainless Steel trays with telescopic Mechanism to carry dead bodies are provided with handles so as the carry dead bodies. Drainages system given to wash the unit inside the chamber. Trays travel on rollers fitted for easy movement. Exterior surface anti rust coated duly finished. CFC free Hermetically sealed heavy duty compressor serves refrigeration unit outside the chambers. Condenser is Efficient with Auto condensate evaporating system, Temperature range of 0-2°C to 4°C & -20°C to 5°C. Unit is fitted with Digital Temperature Indicator-cum-Controller with Audio-Visual Alarms to warn High and Low Temperatures. The unit is Supplied complete with trays, cord and plug, to work on 220/230 volts A.C Supply. Supply with Voltage Stabilizer.

Additional features:

Standby Arrangement system if main system failures.

CAPACITY 0-2° to 4 °C -20 to 5 C

- (a) Single human body,
- (b) Two human bodies
- (c) Three human bodies
- (d) Four human bodies
- (e) Six human bodies.

OPTIONAL ACCESSORIES

Temperature Recorder, Data Logger, Voltage safety system, Alarm System for various parameters battery backup rechargeable.

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ASE-116

ASE-116 MORTUARY CHAMBER

ALPHA®

Used for storing cadaverous under low temperature cool conditions in order to prevent decomposition. Most Useful for Hospitals, Airports, Railways etc. These units are double walled with outer & inner made of Stainless Steel Sheets. The gap between inner and outer chamber is filled with Puff 80-100 mm to avoid thermal loss. Air circulation by forced Air circulation. The front face lifting hinged door is lined with double gasket seal between the door and cabinet increases system efficiency side opening. Stainless Steel trays with telescopic Mechanism to carry dead bodies are provided with handles so as to carry dead bodies. Drainages system given to wash the unit inside the chamber. Trays travel on rollers fitted for easy movement. Exterior surface anti rust coated duly finished. CFC free Hermetically sealed heavy duty ISI compressor low noise level & minimal vibration to serves refrigeration unit outside the chambers. Condenser is Efficient with Auto condensate evaporating system, Evaporator internal forced drought system. Temperature range of 0+2°C to 8°C Unit is fitted with LCD Digital Temperature microprocessor based Controller with data logger humidity controls, Audio-Visual Alarms to warn High and Low Temperatures. The unit is Supplied complete with trays, cord and plug, to work on 220/230 volts A.C Supply. Supply with Voltage Stabilizer.

Additional features:

Standby Arrangement system if main system failures.

CAPACITY 0+2° to 8 °C

- (a) Single human body,
- (b) Two human bodies
- (c) Three human bodies
- (d) Four human bodies
- (e) Six human bodies.

OPTIONAL ACCESSORIES

Temperature Recorder, Data Logger, Voltage safety system, Alarm System for various parameters battery backup rechargeable.

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ASE- 2891

ASE- 2891 MEAT CUTTING MACHINE ALPHATM

Useful for preparing specimen of big size in Anatomy and Meat Departments. Fitted with large moving table and extension table operated on four ballbearing rollers. Used extensively in the meat packing, and wholesale fish industry, handling swordfish and large halibutes etc.

Specifications :-

Size of cutting table 785 x 585 mm approx
Total Table Travel 1245 mm approx Extension Table 455 x 760 mm approx Size of Wheel 455 mm approx
Height 1700 mm approx

The table is made of thick S.S. sheet with special heavy axles for easy and firm movement. Supplied complete with one blade, starter, cord and plug. Suitable to work on 220 V, single phase, 50Hz. AC supply.

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ASE- 2891

ASE- 2891 BAND SAW CUTTING MACHINE ALPHATM

Useful for preparing specimen of big size in Anatomy and Meat Departments. Fitted with large moving table and extension table operated on four ballbearing rollers. Used extensively in the meat packing, and wholesale fish industry, handling swordfish and large halibutes etc.

Specifications :-

Max. Job Height in mm 200

Max. Throat in mm 200

Table Size (L x W in mm) 600 x 600 Blade Speed in mtr /min. 20 - 100

Blade Size (L x W x T in mm) 3505 x 27 x 0.9

Saw Motor Capacity - 3HP Coolant Motor Capacity 0.16HP

Overall Size (L x W x H in mm) 900 x 700 x 2100 approx

Approx Weight in Kg 400

The table is made of thick S.S. sheet with special heavy axles for easy and firm movement. Supplied complete with one blade, starter, cord and plug. Suitable to work on 220 V, single phase, 50Hz. AC supply.

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ASE- 2894

ASE- 2894 EMBALMING MACHINE ALPHATM

The embalming machine pumps formaldehyde mix into the cadaver for preservation and sanitation purposes. For this an embalming machine is utilized such as our embalming machine with its specialized noiseless pump. Unit is fitted with air compressor 1/8 H P single speed motor which is connected with a 3 gallon acrylic/Stainless Steel basin to hold embalming fluid stainless steel tank is fitted with a safety valve, pressure gauge and rubber tubing. These embalming machine provides suction and delivery at optimum pressure with a fluid delivery rate of 10 ltrs. to 15 ltrs per hrs. it is available with salient features such as:

- S.S inner tank to store fluid capacity 10-15 liters
- Mounted on castors for easy movement & grips provided for lifting
- Mains-on & In-use indication provided.

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ASE- 2894

ASE- 2894 EMBALMING MACHINE

The embalming machine pumps formaldehyde mix into the cadaver for preservation and sanitation purposes. For this an embalming machine is utilized such as our embalming machine with its specialized noiseless pump. These embalming machine provides suction and delivery at optimum pressure with a fluid delivery rate of 10 ltrs. / Hr. it is available with salient features such as S.S inner tank to store fluid capacity 10-15 liters

Complete workstation containing embalming trolley and embalming machine.

Trolley made of complete SS manufactured without rivets or bolts on the surface

Manual ratchet system provided for trendelenburg position.

Embalming machine mounted on the underlying frame for complete system transportation.

Embalming machine can be dismounted and used separately.

Provided with heavy castors for easy movement with or without embalming machine.

Embalming trolley approx 60" lengthX28"widthX34"height Embalming machine uses specialized noiseless pump for suction and delivery at preset optimum pressure.

Fluid delivery rate 10 ltrs./hr.

SS inner tank with fluid capacity provided.

Complete SS Outer body mounted provided

Complete SS outer body mounted on castors

Approx Size of the EM – 05, 24" lengthX19" width X 14.5" height

Embalming machine with its specialized noise less pump, provide suction and delivery at optimum pressure with a fluid delivery rate of 10Litres/hr with salient features such as

SS Inner tank to store fluid capacity 10-15 liters, Mounted on castors for easy movement and grips provided for lifting, IV stand fixed for mounting cannula tubing and mains cable, Mains-on and in use indication provided, Complete stainless steel outer body/ and / or Cadaverous injector

For injecting formaldehyde solution in Cadaverous at much higher speed than normal gravity process. Unit is fully covered and mounted on a portable trolley having four castor wheels for easy movement. Unit consists of one air compressor fitted with 1/2hp motor which is connected with a stainless steel tank of 10 liters capacity meant for storing and injecting the solution. Tank is fitted with a safety valve, pressure gauge and rubber tubing having provision for injection and supplied complete with electric cord, plug and suitable to work on 220V, 1ph 50hz, AC supply.

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ASE-197

ASE-196 Colony Counter ALPHA[®]

An ideal instrument for counting bacterial mould colonies in culture work, It provides uniform glass free illumination to minimise the strain on eyes and clearly defines even small colonies. A 100mm. dia lens covers the entire illumination field and its magnification assures highly accurate results. Counting plate with standard wolfhugel ruling ensures clearly differentiated and sharply defined colonies. Supplied complete with counting plate, lens, cord and plug. To work on 220V A.C. Supply. **Other changes can be done on request or as per user specification.**

ASE-197 Colony Counter (Digital Electronic Model) ALPHA[®]

Same as "ALPHA" but the model is fitted with automatic 4 digits LE Digital Display. It minimises the strain of counting. Each touch of Auto Marking Pencil in the petridish increments the colony count by '1' and the flowing LED Digital depicts the total colony count, thus relieving the technician from the tedious task of counting and eliminating the changes of error. Maximum colony Count possible upto 9999. Wolff hue gel glass grid with focusing facility, a count is registered and confirmed by an audio beep, manual count switch for counting without Marker pen. Provided with a manual reset of digital display, ON/OFF Switch, counting plate, lens, cord and plug. To work on 220V A.C.**Other changes can be done on request or as per user specification.**

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ASE-132 Fume Hood (Cupboard) TM

Fabricated out of thick heavy gauge CRC sheet mounted on sturdy angle iron frame, "ALPHA" Fume Hoods are designed so as to throw out all toxic gases, alkaline fumes, Chemicals harmful vapours, removal of odour etc. from the hood working area, thus protecting costly instruments and the person working in the lab.

It is floor mounted systems designed to meet the challenges when working with chemicals, chemical fumes and otherflammable materials etc. with a highdegree of efficiency.

It is designed such that automatic bypass airflow to the suction system with double walled construction to provide easymaintenance and access to concealed service fixtures and utilities like water,gas, vacuum and electricity connections.

The outer body Is of PowerCoated Electro Galvanized Steel.

It has Constant Air Volume (CAV) typewith automatic bypass.

Interior Construction and Liners thick Water/Heat/Fire Resistant PhenolicResin Lamination

Work surface made of Granite.

The Support Base has a storage cabinet.

It have two sockets to be located onthe side panel for optimum convenience ofusing small electrical devices inside thecabinet

The front door moves vertically up and down with concealed counter balances weight Shutter

Vertical rising sash/ shutter consist of a thick toughened transparent glass/window for a clear inside view. The sash is counter balanced for smooth and light weight operation foreasier access to the work zone and enhanced user safety.

It has an Apparatus Holding Grid. It has SS made Sink with Swan Neck tap Connection

It has three-point suction system(for light, normal & heavy fumes) with baffle to ensure smooth and immediate exhaust offumes.

Inner Chamber should be fitted with vaporproof incandescent lamp for clearer andbrighter chamber vision

The unit is fitted with fluorescent light and a gas cock for gas/air supply.

The front facing panel is fitted with 15/5 Amp socket with switches for exhaust system and fluorescent light. TO work on 220/230 volts A.C. Supply.

Dimension of : outer 4 x 2 x 8 fit. Inner 4 x 2 x 4 Fit.

OPTIONAL ACCESSORIES

- (a) Exhaust system complete with motor and blower assemble and installation
- (b) PVC fume duct (per running feet).
- (c) Storage compartments underneath working table top.

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ASE-132

Fume Hood (Cupboard) ASE-132 ALPHA[®]

Fabricated out of thick wooden board, heavy gauge CRC sheet mounted on sturdy angle iron frame, "ALPHA" Fume Hoods are designed so as to throwout all toxic/harmful vapours. Outer side finished with sum mica and inner epoxy painted. Working table top fitted with acid, alkali resistant tiles and a small wash basin with connections provided for inlet and outlet of water. The front door to move vertically up and down with concealed counter balanced weight. The front facing panel be fitted with 15/5 Amp socket with switched for exhaust system and flower cent light to work on 220/230 volts A.C Supply. Associated with Exhaust system complete with motor and blower with PVC installation. With PVC fume port. Present with storage compartments under heath working table for area walls. thus protecting costly instruments and the person working in the lab. The space under the work station can be provided with storage compartments for storage purpose at an extra cost (See Optional Accessories).

-----do----- Complete Stainless Steel

- (a) 4'x2'x2' (b) 4'x 3'x 2/3' (c) 6'x2'x2' (d) 5'x2'x2' (e) 7'x3'x3' (f) 8'x3'x3'

OPTIONAL ACCESSORIES

- (a) Exhaust system complete with motor and blower assemble and installation
- (b) PVC fume duct (per running feet).
- (c) Storage compartments underneath working table top.
- (d) Lead lining on working area walls.

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ASE-202



ASE-203

ASE-202 Aerosol Disinfector ALPHA™

It instantly converts liquid formalin/disinfecting liquid, into true aerosol particles. Due to high aerodynamic stability the formalin droplets remain suspended for longer duration and thus ensure 100% sterile germ free and zero bacteria environment. A single unit can sterilize 250 cu. meters (9000 cu.ft.) in just 30-60 minutes. Body and tank made of stainless steel has capacity of 5 litres. To work in 220/230 A.C. Other changes can be done on request or as per user specification.

OPTIONAL ACCESSORIES

- (a) Automatic Timer (0-120 minutes)

ASE-203 Humidifier ALPHA™

Based on the rotating disc-splash plate principle. ALPHA humidifier produces only super fine particles of micron size, which become part of the atmosphere, thereby reaching every corner of the room, resulting in uniform humidity. Due to the upward thrust imparted to the micron sized water droplets, by high speed motorised unit, they remain suspended in the atmosphere for longer duration of time. It converts water into super fine cool mist, which does not condense when obstructed and remain suspended in the air, thus achieving humidity up to 95% RH in enclosed areas. The unit is capable of atomizing up to 3 litres of water in an hour at full evaporation in the driest possible ambient conditions. The unit has body made up of stainless steel. A single unit is effective for an enclosed space of volume up to 40 cu. mtrs. The unit is fitted with a float valve assembly to maintain the sump water level. An optional arrangement can also be provided to control the humidity, which automatically cuts off and puts on the unit as and when required. The unit is provided with high speed 2800 RPM, motor to run smoothly for much longer period, and the blades are aerodynamically balanced to ensure dropless fumigation. To work on 220/230 volts A.C. supply. Capacity : 5.0 litres. Other changes can be done on request or as per user specification.

- (b) -do- but HEAVY DUTY CONTINUOUS RATING MODEL, fitted with a very heavy duty motor with imported stamping and rotating on ball bearings.

OPTIONAL ACCESSORIES

- (a) Control box fitted with Humidistat for controlling humidity.

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DPH-115PM ALPHATM Digital pH-Meter with Standard accessories

Model	:	"DPH-115PM", Bench Top Model Agronomic design having controls and settings on front panel, international BNC connector for electrode on the black panel.	
Electronics	:	Solid State VDR circuit design. pH Mode mV Mode	
Range	:	0.00 to 14.00	-1999 to +1999
Resolution	:	+ 0.01 pH	+ 1mV
Accuracy	:	+0.01 pH+1digit	1mV +1 digit
Repeatability	:	+0.01pH	+1mV
Input Impedance	:	> 10^{14} Ohms	
Temp. Compensation	:	0 to 100°C Manual	
Ambient Temperature	:	0° to 100° C , 40° C at 95% RH	
Display	:	3.5 digit Red LED, 0.56" Height	
Polarity Display	:	Automatic	
Stability	:	0.01 pH drift in 24 Hours after a warm up of 10 min.	
Mains	:	230 volts + 10%, 50 Hz.	
Dimensions	:	(244*64*170) mm	
Weight	:	1.5 kg (approx.)	
Stop control	:	80 to 120%	
Sensor	:	PH Electrode	
pH Meter direct reading, two point calibration instrument, read ph or mV on a digital LED/LCD display. It is used to measure acidity or alkalinity of solution ,with suitable case.			
Accessories	:	* Combination glass pH Electrode. * Electrode stand with adj. moulded holders * Operational- cum - service manual * Dust cover * Buffer bottles * Buffer powder for calibration * Mains cord * Warranty card	

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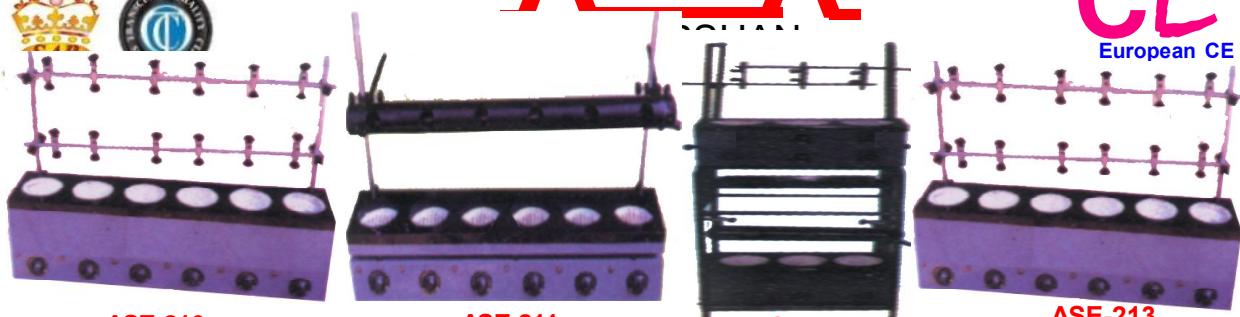
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ALPHATM

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ASE-210

ASE-211

ASE-212

ASE-213

ASE-210 Kjeldahl Distillation Units **ALPHATM** with energy regulators.

This is very useful for distillation purpose for 300ml. and 500ml. capacity flasks. Provided with condensor rack. To work on 220/230V A.C. Supply.

- (a) Unit of 3-Test Mantle Type
- (b) Unit of 6-Test Mantle Type

ASE-211 Kjeldahl Digestion Units **ALPHATM** with energy regulators.

It is very useful for estimation of Nitrogen content in the substance by digestion for 300 & 500ml. Capacity flasks Provided with lead fume duct and pair of hangers. TO work on 220/230 A.C. Supply.

- (a) Unit of 3-Test Mantle Type
- (b) Unit of 6-Test Mantle Type

ASE-212 Kjeldahl Distillation and Digestion Combined Unit **ALPHATM**

Supplied complete with two sets of Mantle type heating platform, estimation of Nitrogen one for distillation and one for digestion. The unit is supplied complete with condensor rack, Temp. 350 degree C lead fume duct and pair of hangers. Complete set up is supplied on a MS powder coated or Stainless Steel. MS Tubular stand. Both units are supplied with individual Digital Temperature controller. To work on 220/230 volts A.C. Supply. can be used Flasks 30 ml, 50ml, 100ml & 300ml.

- ((a) Unit of 3-Test Mantle Type.
- (b) Unit of 6-Test Mantle Type.
- (a) Without glass parts & Clamps
- (b) With Borosil glass parts & Clamps

ASE-213 Soxhlet Extraction Unit **ALPHATM**

Ideal heater for the extractors of Soxhlet and other types. Extraction heaters made of fiber glass hand knitted netting nichrome heating elements. Gap between casing & heater is filled with high grade glass wool insulation Heating elements having individual regulators & pilot lamps to indicate working of the heaters.

This apparatus is suitable to heat soxhlet flasks of 50-500ml. It consists Outer boby of S.S/ mild steel sheet housing, two retort rods cross bar clamp holder & boss heads to hold the flasks. Control box is away but junctioned with the heating console

To work on 220/230 A.C. Supply. **(Without Glass Parts (With Borosil Glass Parts
& Clamps)**

- ((a) Unit of 3-Test Mantle Type.
- (b) Unit of 6-Test Mantle Type.

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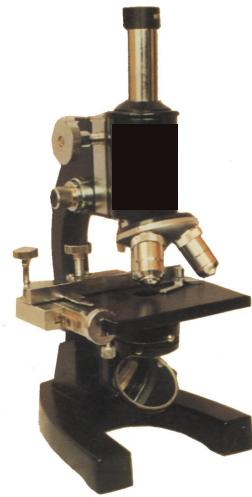


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ASE-1066



ASE-1069

ASE-1066 MICROSCOPE BINOCULAR INCLINED PATHOLOGICAL BIOMAD-20 ALPHATM

Big heavy sturdy body with heat proof hand rest, coaxial coarse & fine movements actuated with sophisticated gear system all movements on ball bearing Quadruple revolving nosepiece having ball bearings. Binocular observation Head inclined at 45 degree ratable 0-360 degree with paired eyepieces H5x, WF 10x (FN 18mm), Substage ABBE-Type NA 1.3 condenser on rack & pinion should be provided. & Semi plan Achromatic spring loaded objectives 4/5x, 10x, 40/45X, (100X Imported) all objectives are parafocalised and parcentered and antifungus treated. Oil immersion (S.L) with 6 volts 20 watts halogen illumination with SMPS electronic control. Hinged door for quick change bulb, nicely packed in box.
Other changes can be done on request or as per user specification.

ASE-1069A MICROSCOPE STUDENT ALPHATM

Same as GHS (Olympus type) Tube length 160 mm with smooth rack & pinion coarse adjustment, graduated fine motion, with 2 Huy eye pieces 10 x & 15 x (or 5x) Ach. objective 10 x 45 x (or 40 x) (S.L.) and 100 x objective with imported capsule mounted by us built in graduated mechanical stage, N.A 1.25 condenser with iris with rack & pinion adjustment, filter holder with day light filter plano concave reflecting mirror, with lock and key. *Other changes can be done on request or as per user specification.*

ASE-1069B MICROSCOPE STUDENT ALPHATM

Same as HSA (Olympus type) Tube length 160 mm with smooth rack & pinion coarse adjustment, graduated fine motion, with 2 Huy eye pieces 10 x & 15 x (or 5x) Ach. objective 10 x 45 x (or 40 x) (S.L.) with imported capsule mounted by us built in graduated mechanical stage, N.A 1.25 condenser with iris with rack & pinion adjustment, filter holder with day light filter plano concave reflecting mirror, with lock and key. *Other changes can be done on request or as per user specification.*

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ASE-1066



ASE-1068

**ASE-1066 MICROSCOPE BINOCULAR INCLINED PATHOLOGICAL
BIOMAD-20 ALPHA[™]**

Big heavy sturdy body with heat proof hand rest, coaxial coarse & fine movements actuated with sophisticated gear system all movements on ball bearing Quadruple revolving nosepiece having ball bearings. Binocular observation Head inclined at 45 degree ratable 0-360 degree with paired eyepieces H5x, WF 10x (FN 18mm), Substage ABBE-Type NA 1.3 condenser on rack & pinion should be provided. & Semi plan Achromatic spring loaded objectives 4/5x, 10x, 40/45X, (100X Imported) all objectives are parafocalised and parcentered and antifungus treated. Oil immersion (S.L) with 6 volts 20 watts halogen illumination with SMPS electronic control. Hinged door for quick change bulb, nicely packed in box.

Other changes can be done on request or as per user specification.

ASE-1068 DISSECTING MICROSCOPE (Delux) ALPHA[™]

A stable round base with square stage provided with jointed eyepiece carrier for free movement on the total stage area. Natural light source. Focus by rack & pinion. With Movable objectives 5X. (optional 10x & 20x Magnification. Complete with stage clips and plano concave reflector. Packed in wooden box/Thermocol Box.

Other changes can be done on request or as per user specification.

Manufactured By : SUDARSHAN CHEMICALS India 324007 0744-2362345, 09414188018

**CE, ISO 9001:2015, WHO, FDA & ISO-13485 CERTIFIED
With first prize awarded at Haroti Udyog Mela year 2003**

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SC-1061



SC-1062 A & B

SC-1061 MICROSCOPE INCLINED MONOCULAR WITH LIGHT ALPHA™

Stand - sturdy with anti rust materials and extended base. stand : Viewing bodies : Monocular tube, 45° inclined 360° rotatable

Eyepieces: Integrated wide field eyepiece WF 10x/18mm, with foldable eye guard, anti fungus coating. Nosepiece: Quadruple nosepiece (Ball bearing type) with rubber grip

Objectives: DIN Semi-Plan Achromatic objectives, anti fungus coating 10X, 40X(Spring loaded), 100 X (Spring loaded) with anti fungal coating Mechanical stage: with Co-axial drive, highly smooth on ball side s.s.holder for slide 75 X 50mm movement Condenser:

ABBE condenser NA1.25 with aspheric lens. Iris diaphragm with snap-in blue filter with rack and pinion movements on metal guides.. Focusing dual in natural with both bright sunlight and Halogen illumination with mirror attachment. Illumination: LED illumination, variable

intensity control, Built in rechargeable battery, Electrical: Input 100V-240V AC. Packed in Styrofoam box with operation manual, Dust cover, cleaning cloth, power cord and mirror attachment. Antitheft facility for objective, CE, ISO 9001:2008, ISO 13485, WHO-GMP

certified company. **Other changes will be done on request or as per user specification.**

SC-1062A MICROSCOPE BINOCULAR INCLINED ALPHA™

Big heavy sturdy body, coaxial coarse Focussing System, Soft Feel, Low Drive Coaxial Mechanical Stage & fine movements actuated with sophisticated gear system all movements on ball bearing Quadruple revolving nosepiece having ball bearings. Binocular observation Head inclined at 45 degree rotatable 0-360 degree with paired eyepieces WF Pair 10x & Achromatic objectives Din semi Plan (S PL) 4/5x, 10x, 40/45X (SL) , 100X oil immersion (S.L) with 6 volts 20 watts halogen illumination nicely packed in box.

SC-1062B----do-----Research with Co axial system Antifungus Achromatic Objectives, Ergonomic Design Interchangeability of Objectives optimised illumination.

Antitheft facility for objective, CE, ISO 9001:2008, ISO 13485, WHO-GMP certified company.
Other changes will be done on request or as per user specification.

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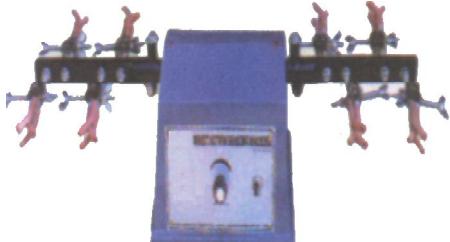


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ASE-165



ASE-166



ASE-168

ASE-165 Kahn (Reciprocating) Shaking Machine ALPHATM

Designed for all reciprocating action shaking operations. Kahn racks, bottles or flasks of different sizes can be shaken by adjusting the compartments provided on the shaking rack. Fitted with heavy duty PERFECT/EQUIVALENT motor. The rate of motion can be adjusted mechanically by belt tension. Oscillations 275 to 280 per minute, approximate. To work on 220/230 volts A.C. supply. Other changes can be done on request or as per user specification.

PLATFORM SIZE BODY SPEED MOTOR CAPACITY

- (a) 20"x13"x4" Open Fixed 1/4 HP.
- (b) 20"x13"x4" Closed Fixed 1/4 HP.
- (c) 20"x13"x4" Closed Variable 1/4 HP.
- (d) 31"x17"x4" Closed Variable 1/4 HP.
- (e) 16"x32"x4" Closed Variable 1/4 HP
- (f) 36"x18"x4" Closed Variable 1/2 HP.

OPTIONAL ACCESSORIES

- (a) Automatic 0-60 minutes timer.

ASE-166 Wrist Action Shaking Machine ALPHATM

It has a heavy cast iron base with rugged construction and two side arms for holding flasks. Fitted with a F.H.P. heavy duty motor with variable speed, through a continuously variable speed controller. Can hold from 100 to 1000ml, capacity. Supplied with cord and plug to work on 220/230 volts A.C. supply. Other changes can be done on request or as per user specification.

- (a) To hold 4 flasks.
- (b) To hold 4 flasks and top platform to hold 4 Flasks/Bottles.
- (c) To hold 8 flasks.
- (d) To hold 8 flasks and top platform to hold 4 Flasks/Bottles.

OPTIONAL ACCESSORIES

- (a) Automatic 0-60 minutes timer.

ASE-168 Automatic Pipette Washer ALPHATM

Complete body Stainless Steel Washing Cylinder with Removable Pipette Holder to accommodate Pipettes Up to 375 mm. In Length. The selection of cool, wash & heat wash facility.

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ASE-109

ASE-109 Plant Growth Chamber ALPHA[™]

These chambers are most useful for carrying out various experiments to study growth of plants controlled environmental conditions, incubation etc. This sturdy constructed chamber has outer wall made of M.S. Sheet duly pretreated & powder coated & Inner Chamber is made of heavy gauge S.S.304 Sheet. The gap between inner and outer wall is filled 75 mm thick with high grade glass wool to avoid thermal loss. Besides outer double walled door, a full view inner glass door allows inspection of test samples without disturbing the chamber conditions. Unit is supplied with three adjustable perforated shelves.

Temperature range from 0°C to 50°C ± 1°C is controlled by DUAL SETTING Digital Temperature Indicator-cum-Controller so as to set two different temperatures for Day and Night. Heating elements made of nichrome wire provide the necessary heating whereas cooling is made of nichrome wire provide the necessary heating whereas cooling is achieved by means of hermetically sealed SHIRIRAM/KIRLOSKER compressor.

Exterior illumination with fluorescent tubes fitted on both sides of the chamber accounts for artificial day light, and the cyclic illumination condition are regulated by automatic 0-24 hrs. Timer. When all the tubes are ON temperature from 7°C to 50°C ± 1°C can be obtained Light intensity can be adjusted by a controller, depending upon the conditions required for the particular experiment.

Humidity from ambient to 95% ± 3% RH is controlled by a Digital controller at temperatures ranging from ambient to 50°C and the same is achieved by means of injecting steam or spraying water. Arrangement for increasing the humidity is provided and not for decreasing. **Other changes can be done on request or as per user specification.** All models are supplied with Voltage Stabilizer.

Available in following sizes :

WIDTH X HEIGHT X DEPTH	CAPACITY (Cu. Ft.)	ALUMINIUM	S.STEEL
(a) 825x1200x825mm.	30 Cu.ft.		
(b) 1400x1480x800mm.	50 Cu.ft.		

OPTIONAL ACCESSORIES

- (1) Microprocessor Based Digital Controller with an accuracy of ± 0.2°C
- (2) 7 Days Programmable Timer can be Provided
- (3) Provision for 50,000 lux can be provided with mixture of incandescent lamp & fluorescent light

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ASE-109

ASE-109 Plant Growth Chamber ALPHA™

These chambers are most useful for carrying out various **experiments** to study growth of plants controlled environmental conditions, incubation etc. This sturdy constructed chamber has outer wall made of M.S. Sheet & Inner Chamber is made of heavy gauge S.S.304 Sheet. The gap between inner and outer duly **pretreatear powder coated** wall is filled with high grade glass wool to avoid thermal loss. Besides outer double walled door, a full view inner **75 mm tick** glass door allows inspection of test samples without disturbing the chamber conditions. Unit is supplied with three adjustable perforated shelves.

Temperature range from 0°C to 50°C ± 1°C is controlled by DUAL SETTING Digital Temperature Indicator-cum-Controller so as to set two different temperatures for Day and Night. Heating elements made of nichrome wire provide the necessary heating whereas cooling is made of nichrome wire provide the necessary heating whereas cooling is achieved by means of hermetically sealed SHRIRAM/KIRLOSKER compressor.

Exterior illumination with fluorescent tubes fitted on both sides of the chamber accounts for artificial day light, and the cyclic illumination condition are regulated by automatic 0-24 hrs. Timer. When all the tubes are ON temperature from 7°C to 50°C ± 1°C can be obtained Light intensity can be adjusted by a controller, depending upon the conditions required for the particular experiment.

Humidity from ambient to 95% ± 3% RH is controlled by a Digital controller at temperatures ranging from ambient to 50°C and the same is achieved by means of injecting steam or spraying water. Arrangement for increasing the humidity is provided and not for decreasing. **Other changes can be done on request or as per user specification.** All models are supplied with Voltage Stabilizer.

Available in following sizes :

WIDTH X HEIGHT X DEPTH	CAPACITY (Cu. Ft.)	ALUMINIUM	S.STEEL
(a) 570x875x550mm.	10 Cu.ft.		
(b) 775x900x775mm.	20 Cu.ft.		
(c) 825x1200x825mm.	30 Cu.ft.		
(d) 900x1700x800mm.	45 Cu.ft.		
(e) 1400x1480x800mm.	50 Cu.ft.		

OPTIONAL ACCESSORIES

- (1) Microprocessor Based Digital Controller with an accuracy of ± 0.2°C

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**Model No. SC-324
Syringe Needle Crusher
(Electrically Operated) ALPHA Make**

Our Equipment is safe. It is meant for quick disposal of syringes/Needles it is electrically operated on 230 V 50 Hz 5 Amp. AC mains single phase & fuse of 2 Amp.

It is Tabletop handy model. It has on/off switch with pilot Lamp/safety Fuse/West tray (removable) for needle and syringe barrel. It has cord length of 2 Mt. And sharp SS. Blade cutter to cut the barrel of syringe.

Scientific Research has discovered that used syringe and needle are harmful and it can cause incurable diseases like AIDS/Hospitals etc.

Direction:

After Switching on insert the used syringe to a hole provided and within second the needle will be destroyed with a cutting blade just put the liver and the syringe will be cut in to two parts. [Other changes can be done on request or as per user specification.](#)

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ASE-171



ASE-172



ASE-173



ASE-174

ASE-171 Magnetic Stirrer *ALPHATM*

It has a compact stirring device utilizing a rotating magnetic field (created by a PERMANENT MAGNET) which induces variable speed stirring action. Digital Microprocessor control RPM 0-1200. Stirring is accomplished by means of small teflon rotor, which when placed in the liquid to be stirred is capable of rotation by magnetic field applied from below the container. Light weight Stainless Steel body chemical & corrosionresistant . The unit is fitted with pilot lamp. To work on 220/230 Volts A.C. Available with or without Hot Plate (as required). Available capacity **Other changes can be done on request or as per user specification.**

CAPACITY

WITHOUT HOTPLATE

WITH HOT PLATE

1Ltrs 2Ltrs 5Ltrs 10Ltrs

ASE-172 Multi-Magnetic Stirrer *ALPHATM*

It is a compact unit for carrying out multiple tests on a single bench, but having individual control and teflon rotors. It has a compact stirring device utilizing a rotating magnetic field (created by a PERMANENT MAGNET) which induces variable speed stirring action. Stirring is accomplished by means of small teflon rotor, which when placed in the liquid to be stirred is capable of rotation by magnetic field applied from below the container. The unit is fitted with pilot lamp. To work on 220/230 Volts A.C. Available with and without Hot Plate as required.**Other changes can be done on request or as per user specification.**

CAPACITY

WITHOUT HOT PLATE

WITH HOT PLATE

3 Stirrers 2 litres capacity
6 Stirrers 2 litres capacity

ASE-173 Laboratory Blender / Mixer *ALPHATM*

Motor: universal: 450 watts. Selective timer cycle from 0.1 to 5 minutes for automotive blending or manual control setting for continuous running 14000-18000 RPM. Epoxy Coated Motor Housing.

Stainless Steel Container one Ltr. with handle and two piece vinyls' and styrene lid. Heat resistant glass with handle and two piece vinyls and styrene lid. Power Cord is 3 mtr. Length.

ASE-174 Laboratory Stirrer *ALPHATM*

The motor-stirrer unit is clamped to a chrome plated rod fitted on a heavy cast iron base. The height and angle of the stirrer can be adjusted according to the requirement. Variable speed Motor with speed regulator is fitted with S.S. Stirring rod to give smooth and noiseless operation. Supplied with or without drill chuck. Available in various capacities fitted

CAPACITY

WITHOUT DRILL CHUCK

WITH DRILL CHUCK

- (a) With 1/50 HP Motor.
- (b) With 1/20 HP Motor.
- (c) With 1/12 HP Motor.
- (d) With 1/8 HP Motor.
- (e) With 1/4 HP Motor.
- (f) With 1/2 HP Motor.

OPTIONAL ACCESSORIES

- (a) Automatic 0-60 minutes Timer.

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ASE-2012 Laboratory Bench Rocker

Bench rocker with adjustable speed.

Single and double platform models and include a ribbed no slit rubber mat to keep containers in place. Cold room & incubator compatible.

DC brushless motor provides maintenance and quiet running operation.

Independents LCD digital displays for rocking speed and timer function.

Speed Settings	5 - 120 tilts/min
Timer	0-2hr or continuous
MotionRocking	
Tilt range Fixed	7°/9°/ Adjustable
Clearance between platforms	3.5"
Maximum Load	11lb/5Kg
Ambient operating Range	+4° to 65° C
Electrical	230V 50/60HzV

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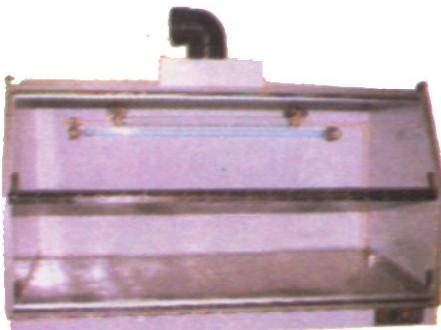


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ASE-138



ASE-139

ASE-138 Air Curtain *ALPHATM*

An air Curtain is a modern device which, when installed on a door, forms an invisible curtain of continuous air and thus prevents escape of conditioned air and entry of outside hot, humid, dirty and unwarded polluted air. "ALPHA" Air Curtains are tailor made units and hence come in all sizes ranging from 24" to 72" (2' to 6') in single units. The cabinets of Air Curtain are made of cold rolled mild steel sheets. The blowers are made of high quality aluminium sheets, duly balances both, statically as well as dynamically on computerised digital balancing machines, designed to provide uniform air with minimum noise and no vibration. All units are thoroughly tested at works and meet the highest standards. The motors used are of continuous rating with sealed ball-bearings. These units are available in Normal Velocity (7 to 9 meters/second) and High Velocity (10 to 12 meters/second). Other changes can be done on request or as per user specification.

SIZE NORMAL

- (a) Door Width 600mm
- (b) Door Width 900mm
- (c) Door Width 1200mm
- (d) Door Width 1500mm
- (e) Door Width 1800mm

VELOCITY

HIGH VELOCITY

ASE-139 Tissue Culture Hood *ALPHATM* size 1220 mm x 610mm x (Ht.At.Back)

Made out of thick P.C.R.C. sheet duly painted has front door opening of 106cms. x 40cms the frame at front is fitted with transparent plexiglass which has an arrangement for keeping the door open at required height. A long lasting rubber gasket is provided on all sides of the front door. Front side slanting provided on all sides of the front door. The hard board base is fitted with sunmica for its long life. Outside size of the unit is 1220mm.x610mm. (Ht. at back). Other changes can be done on request or as per user specification.

OPTIONAL ACCESSORIES

- (a) Built in U.V. Germicida Light.
- (b) Built in Flourescent Light.
- (c) S.S. Top in lieu of Sunmica Top.

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ASE-229 Ultra Violet Fluorescence Analysis Cabinet ALPHATM

For visualization of test objects under U.V. tubes with long wave and short wave length (365 and 254 n.m.) as desired. Flexible curtain keeps light out while chromatogram is manipulated. Supplied with two tubes. To operate on 230 volts A.C. (Without filter)

(b) -do- but Deluxe Model supplied with filter.

ASE-230 Ultra Violet Lamp (Box Type) ALPHATM

It is a portable dark room for ultra violet visualization of fluorescent materials. Sample can be placed on the tray by opening the windows. Suitable for paper chromatography and gradation Oil U.V. Radiation range is 3200-4000 A.U. Operating voltage 230 volts A.C.

Can be supplied box type combined short & long wave. is controlled around 3600 A.U. & for shot wave around 2500 A.U

ASE-231 Blood Cell Counter (Clay Adam Type) ALPHATM

It used for counting blood cells, wherein each unit counts upto 999 and the totalizer unit indicates the total of different cells. A bell automatically sounds at very hundred count. Supplied complete with storing case.

(a) 5 Keys and one totalizer
(b) 8 Keys and one totalizer

ASE-232 Thin Layer Chromatography Kit (T.L.C. Kit) ALPHATM

with Aluminium Applicator Complete with aluminium applicator (Thickness of the layer valid from 1mm. to 2mm.) thin layer drawing board, drawing rack, developing chamber, spotting jig, silica gel, micropipette, glass plates (6Nos) and glass sprayer with bulb.

(b) -do- but with BRASS APPLICATOR (SANDON TYPE)

ASE-233 Seed/Food Grain Moisture Meter ALPHATM

It is a light weight portable instrument designed to detect moisture in food grains, pulses, oilseeds, vegetable seeds, spices and other granular substances. The grain are compressed and conductivity noted with cup type electrodes.

It is a self contained instrument for compressing the sample to predetermined thickness and than sensing conductivity on a analogue meter. A thermometer is installed to take instant temperature and for easy reading of moisture percentage circular scale is given on the top of instrument.

The electrical circuit is designed for very low power consumption and it works on two small battery cells or on A.C. mains.

Measuring range : 8-40%
Accuracy : ± 0.2%
To work on 220/230 volts A.C. Supply or Battery Operated.

ASE-234 Soil Moisture Meter ALPHATM

The Instrument is calibrated in percentage saturation in soil and read from 0-100. The instrument is 9 volts cell operated on Analogue Meter.

Range : 7-30%
Accuracy : ± 0.5%
(b) -do- same but DIGITAL model.

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ASE-104

ASE-104 Seed Germinator (Single Chamber) ALPHA[®]

Most suitable for conducting various experiments on a variety of seeds under different conditions are created within the chamber to perform different experiments without going onto the field. The double walled unit has inner chamber made up of anodised aluminium or stainless steel 304 and outer chamber made of heavy gauge M.S. sheet duly oven backed enamel paint. Insulation is provided between inner chamber & outer body to minimise heat loss. Door provided with key & lock system in it. The door is provided with leak proof magnetic gasket one on chamber and one on the door. Door is also provided with a viewing glass window to view the germination of seeds inside the chamber without opening the door. Stainless steel water tank having the capacity of 50 liters approx. with water inlet & outlet made of brass nozzle and brass drain pipe provided in chamber at bottom to maintain the required humidity through proper circulation of water in the chamber. Water level indicator is provided in germinator. Germinator is mounted on castor wheels for easy mobility. Chamber can accommodate 4 perforated stainless steel of 304 grade trays. Humidity (NOT ADJUSTABLE) is created in a S.S. water reservoir fitted at the bottom, in the chambers, to create 90% to 95% \pm 3% RH humidity. Chamber is fitted with heating & cooling controls. Temperature of the chambers is controlled separately by Digital temp. controller cum indicator system.

Other changes can be done on request or as per user specification.

INSIDE CHAMBER SIZE (H.W.D)

900mm. x 550mm x 600mm.Approx.

ALIMINIUM S.STEEL

OPTIONAL ACCESSORIES

- (a) Interior illumination with 3 Nos. fluorescent tubes (for each chamber)
- (b) Exterior illumination with 3 Nos. fluorescent tubes (for each chamber)
- (c) Automatic 0-24 hour Timer to regulate cyclic illumination conditions (for each chamber)
- (d) Humidity control arrangement from 55% to 95% \pm 3% RH, controlled by humidistat.
- (e) Electronic Digital Temperature Indicator-cum-Controller (for each chamber).
- (f) Dual setting Digital Temperature Controller for setting two different temperatures for day and night (for each chamber).
- (g) Hygrometer with LCD/LED display indoor temp.& humidity display simultaneously, minimum and maximum temperature and humidity.
- (h) MCB for compressor & heater.
- (i) Automatic Voltage Stabilizer 5 KVA

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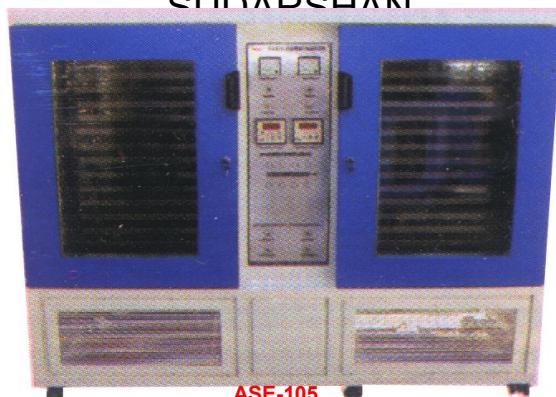
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ASE-105

ASE-105 Seed Germinator (Dual Chamber) ALPHATM

Most suitable for conducting various experiments on a variety of seeds under different conditions are created within the chamber to perform different experiments without going onto the field. The double walled unit has inner chamber made up of anodised aluminium or stainless steel 316 and outer chamber made of heavy gauge G I 20 SWG sheet duly oven Powder coated. Insulation is provided between innerchamber & outer body to minimise heat loss. Door provided with key & lock system in it. The door is provided with leak proof magnetic gasket one on chamber and one on the door, Door is also provided with a viewing glass window to view the germination of seeds inside the chamber without opening the door. Each chamber has separate air circulation by FH Motor with ample provision for an even distribution of air by a fan which assures uniformity of temp. throughout the chamber. Standard make (ISI MARK) compressor with all accessories, Stainless steel water tank having the capacity of 30 liters approx. with water inlet & outlet made of brass nozzle and brass drain pipe provided in chamber at bottom to maintain the required humidity through proper circulation of water in the chamber. Water level indicator is provided in germinator. Seed Germinator chamber have with lighting arrangement (700-1250 lux intensity of light) fully programmable with 0-24 hour timer. Germinator is mounted on castor wheels for easy mobility. Each chamber can accommodate 4 perforated stainless steel of 316 grade trays. Humidity (NOT ADJUSTABLE) is created in a S.S. water reservoir fitted at the bottom, in both chambers, to create 90% to 95% \pm 3% RH humidity. Each Chamber is fitted with heating & cooling separate controls. Temperature of both the chambers is controlled separately by Digital temp. controller cum indicator system by Microprocessor based control 2x16 (Range 5°C – 50°C \pm 1°C). Other changes can be done on request or as per user specification.

INSIDE CHAMBER SIZE (H.W.D) (of each chamber) ALIMINIUM S.STEEL
900mm. x550mm x600mm.Approx.

OPTIONAL ACCESSORIES

- (a) Interior illumination with 3 Nos. fluorescent tubes (for each chamber)
- (b) Exterior illumination with 3 Nos. fluorescent tubes (for each chamber)
- (c) Automatic 0-24 hour Timer to regulate cyclic illumination conditions (for each chamber)
- (d) Humidity control arrangement from 55% to 95% + 3% RH, controlled by humidistat.
- (e) Electronic Digital Temperature Indicator-cum-Controller (for each chamber).
- (f) Dual setting Digital Temperature Controller for setting two different temperatures for day and night (for each chamber).
- (g) Hygrometer with LCD/LED display indoor temp.& humidity display simultaneously, minimum and maximum temperature and humidity.
- (h) MCB for compressor & heater.
- (i) Automatic Voltage Stabilizer 5 KVA (for each chamber).

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ASE-106



ASE-107

ASE-106 Humidity and Temperature Control Cabinet (Ageing Chamber) ALPHA[®]

Suitable for carrying out different quality control tests under controlled conditions of temperature and humidity. Inner chamber consists of anodised aluminium or stainless steel and outer wall of mild steel sheet duty painted. The gap of 75mm between the outer and inner wall is filled with special grade glass wool to prevent thermal losses. A self coled air circulation fan is fitted to maintain uniform temperature and humidity conditions throughout the chamber. Heating elements of nicrome wire are placed in the air path and are duly insulated from the body. The inner chamber is ribbed for placement of shelves at desired at heights. temperature range from 5°C to 50°C + 1°C. is fitted to the front panel. Shelves - 3 No., SS-304, Load Bearing Cap. 100 Kg. each. Humidity is achieved by generating steam by heating water in a stainless steel reservoir, by immersion heater and its subsequent condensation in the circulating air the humidity is controlled by imported HUMIDITAT from atmospheric humidity to 95% + 3% RH To work on 220/230V A.C.

INSIDE CHAMBER SIZE (WXHxD)

- (a) 455mm. x 710mm. x 455mm.
- (b) 605mm. x 605mm. x 605mm.
- (c) 605mm. x 910mm. x 605mm.

ALIMINIUM

S.STEEL

OPTIONAL ACCESSORIES (for "Alpha" make)

- (a) Hygrometer (Dial Type Humidity Indicator)
- (b) Electronic Digital Temperature
- (c) Electric Digital Temperature & Humidity Indicator-cum-Controller
- (d) Automatic Voltage Stabilizer (for "Alpha" make)
- (e) Two pin chart recorder for Temperature and Humidity.

ASE-108 Carbon-Dioxide Incubator ALPHA[®]

Double walled with outer made up of M.S. sheet duly painted and inner of stainless steel. Space between the two walls is fitted with high grade glass wool to minimise thermal loss. Face lifting door has magnetically lined gasket and also has full view inner glass door. Temperature Indicator-cum-Controller. An inlet nozzle is provided to the unit for admission of CO₂ or air/CO₂ mixture. Individual regulators are provided on the panel for controlling air and CO₂ gas. While ordering for CO₂ cylinder (Optional) a mixture of 5% or 10% CO₂ gas and air can be provided, in order to avoid the mixing process separately through inlet nozzles provided to the unit. Supplied complete with inlet/outlet for air/gas, cord and plugging to work on 220/230 volts A.C. supply.

Inner Chamber Size : 455x710x455mm. (WxHxD)

OPTIONAL ACCESSORIES

- (a) Air Compressor for above
- (b) Co₂ cylinder with regulator.
- (c) Automatic Voltage Stabilizer 3KVA

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ASE-217



ASE-226

ASE-217 Paper Electrophoresis Apparatus *ALPHATM*

Paper Electrophoresis Apparatus (Horizontal Migration Cell) is made of transparent, inert acrylic plastic sheet. It has suitable for Horizontal Electrophoresis. Platinum electrodes of 99.9% purity extend through the entire width of the buffer compartment. The cover/lid is of a special Pyramid type design so as to seal the central chamber and maintain special Pyramid type design so as to seal the central chamber and maintain a high humid atmosphere, besides it also vents the electrodes chamber. The unit is fitted with electrode terminals.

It can accomodate six paper strips of 4cm width or paper sheet upto 28cm width on removable special strip carrier placed on the bed of the chamber. It has got very special wide application scope for research labs engaged in the problems of :

Blood Chemistry (Protiens), Immuno Chemistry (Lipoprotiens)
Antigen (Cargo Hydrates), Anti Body Reaction (Enzymes),
Antivenomous (Venoms) etc.

OPTIONAL ACCESSORIES

- (a) Gel Cutter : Total Length 200mm but cutter length 110mm.
- (b) Gel Tray Set : Six trays made of transparent acrylic perspex sheet and having dimensions. Outer width 36mm. Inner width 20mm Length 250mm. & depth 6.5mm.
- (c) Strach Gel Tray : Made of highly polished perspex sheet with internal dimensions 150mm x 50mm.

ASE-222 Vertical Slab Gel Electrophoresis Apparatus (fixed Higeht)

It is a unit made out of thick perspex sheet with fixed upper and lower buffer tanks. Complete with one comb, three spacers, one plain glass plate, one notched glass plate, clamps, electrode terminals and Platinum electrodes of 99.9% purity.

- (b) -do- but with Adjustable Height with stainless steel rods and all above accessories.

ASE-226 Electrophoresis Power Supply (Constant Voltage Constant Current Mode) *ALPHATM*

This well designed and robust power supply unit has been introduced to provide constant current or constant voltage as desired irrespective of mains fluctuations and various in paper resistance. It is a compact assemble, including a mains transformer, full wave rectifier and smoothing condensor operating directly on 220/230 volts A.C. mains. The unstablized rectified voltage is fed to an electronic amplifier and compared with an internal reference voltage source. The output of the amplifier and compared with an internal reference voltage source. The output of the amplifier is stabilized voltage. It will deliver a current of any value between 1-100MA (500 Volts Max.) in constant voltage mode. The range control potentiometer makes the output adjustable over the entire range of the unit. It is fitted with separate meters for voltage and current. It has line and load regulation $\pm 0.5\%$ and ripple less than 10 mV. All supplies are short circuit and overload protected.

- (a) Range 0-500 volts and 0-100 mA (With Two digital Meters)

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ASE-217



ASE-220



ASE-226

ASE-217 Paper Chromatography Apparatus ALPHATM

Paper Chromatography Apparatus (Horizontal Migration Cell) is made of transparent, inert acrylic plastic sheet. It has suitable for Horizontal Electrophoresis. Platinum electrodes of 99.9% purity extend through the entire width of the buffer compartment. The cover/lid is of a special Pyramid type design so as to seal the central chamber and maintain special Pyramid type design so as to seal the central chamber and maintain a high humid atmosphere, besides it also vents the electrodes chamber. The unit is fitted with electrode terminals.

It can accomodate six paper strips of 4cm width or paper sheet upto 28cm width on removable special strip carrier placed on the bed of the chamber. It has got very special wide application scope for research labs engaged in the problems of :

Blood Chemistry (Proteins), Immuno Chemistry (Lipoproteins)
Antigen (Cargo Hydrates), Anti Body Reaction (Enzymes),
Antivenoms (Venoms) etc.

OPTIONAL ACCESSORIES

- (a) Gel Cutter : Total Length 200mm but cutter length 110mm.
- (b) Gel Tray Set : trays made of transparent acrylic perspex sheet and having dimensions. Outer width 36mm. Inner width 20mm Length 250mm. & depth 6.5mm.
- (c) Strach Gel Tray : Made of highly polished perspex sheet with internal dimensions 150mm x 50mm.

ASE-220 Thin Layer Chromatography ALPHATM

It is a unit made out of thick perspex sheet with fixed upper and lower buffer tanks. Complete with one comb, three spacers, one plain glass plate, one notched glass plate, clamps, electrode terminals and Platinum electrodes of 99.9% purity.

Chromotographic glass/Acrylic chamber for thin layer chromatography
Standard tank with lid chamber Approx 270mm L x 60mm W x 220mm H
Accommodate standard 200 x 200mm TLC plates

ASE-226 Electrophoresis Power Supply (Constant Voltage Constant Current Mode) ALPHATM

This well designed and robust power supply unit has been introduced to provide constant current or constant voltage as desired irrespective of mains fluctuations and various in paper resistance. It is a compact assemble, including a mains transformer, full wave rectifier and smoothing condensor operating directly on 220/230 volts A.C. mains. The unstablized rectified voltage is fed to an electronic amplifier and compared with an internal reference voltage source. The output of the amplifier and compared with an internal reference voltage source. The output of the amplifier is stabilized voltage. It will deliver a current of any value between 1-100MA (500 Volts Max.) in constant voltage mode. The range control potentiometer makes the output adjustable over the entire range of the unit. It is fitted with separate meters for voltage and current. It has line and load regulation $\pm 0.5\%$ and ripple less than 10 mV. All supplies are short circuit and overload protected.

- (a) Range 0-500 volts and 0-100 mA (With Two digital Meters)

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ASE-2153



ASE-2154

ASE-2153 HEMO CYTO METER ALPHA Make

Improved Rohem Neubauer chamber (Bright line type with silver coating) with thick cover slips, German RBC & WBC pipettes. Storage box (velvet-lined).

Made from a single piece of thermal and shock-resistant glass, with precise scratch free rulings for accurate cell counts.

The slide should be scratch free.

Preferably with a V-slash at the charging site of each plateau for facilitating charging. Conforming to international standards of quality and measurement. to determine the number of cells per unit volume of blood under microscope. It have improved neubauer chamber.

ASE-2154 HAEMOGLOBINOMETER (SAHLI'S) ALPHA Make

The kit consists of following accessories :

comparator holder: -1 nos.

It is black in colour. The back of the holder is fitted with milky colour screen made of acrylic. In front of the holder there are three windows. The two side windows are fitted with colour comparison. The size of all the three windows are height 3 cms. (minimum) width 0.5 cms. (minimum) square H.B. Tube: -2 nos.

Square H.B. Tube is graduated on both the side for the measurement of hemoglobin in respect of percentage and gram.

H.B. Pipette -1 nos.

20 Microlite H.B. Pipette with latex tube and mouth piece
amber coloured glass bottle -1 nos. Glass stirrer -1 nos.

Dropper with teat -1 nos. Cleaning brush -1 nos.

Spare latex tubing one meter -1 nos.

All the above are fitted in thermoform tray. Further packed in plastic box.

Note: H.B. Tube is graduated and is calibrated with 2 colour standards fitted to color comparator.

The inner dimensions of glass tube vary from tube where as our tubes is made of polycarbonate and moulded thru die. Hence in all the lot, the inner dimensions of tube is same. So, if HB tube made of glass is broken, the whole HB meter is spoiled where as our HB Tube is unbreakable and is made of polycarbonate with long life.

Further 2 Nos are supplied with each HB meter

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ASE-249

ASE-249

ASE -252

ASE -251

ASE-248 Freezing Microtome (Erma japan type) ALPHATM

Erma Japan Type. Based on principle of freezing with the help of evaporation carbon dioxide gas around the specimen . Freezing stage is suitably surrounded by plastic cap. which prevents undue wast of Carbon dioxide gas. Table model widely used in Medical & Industrial fields, can be clamped at any corner of work table. Allowed section thickness range between 5-40 microns in steps of 5 microns. Supplied complete with Carbon Dioxide freezing attachment having specimen stage of 32 mm diameter,gas pipe, one knife 120 mm having back and handle in wooden box, honing plate, without gas cylinder.

Optional Accessories

- (a) CO₂ Gas Cyclinder (Capacity 9 liter)
- (b) Spare stage for frozen section
- (c) Gas pipe

ASE-249 Microtome Accessories ALPHATM

- | | | | |
|--|----------------------|------------|----------|
| (a) Block Holder (Made of Brass) | 37mm dia | 25 mm dia | 20mm dia |
| (b) Embedding Rings (Disposable) | 150mm | 180mm | 200mm |
| (c) Spare Microtome Kinfe 120mm | (1)22 x 44 x 25 mm | (per pair) | |
| (d) L-Moulds (Embedding Moulds) | (2)37 x 25 x 15 mm | (per pair) | |
| | (3) 50 x 25 x 15 m.m | (per pair) | |
| | (4) 75 x 30 x 19 m.m | (per pair) | |
| (e) Honing glass plate (in wooden box) | | | |
| (f) Leather Strop | | | |
| (g) Small knife 6"X8" | | | |
| (h) Block preparation for 25 block 9" x 9" made of brass | | | |
| (i) Stone Carbarandon | | | |

ASE-250 Microtome cryostat ALPHATM

The in - built Microtome is made entirely of rust proof material and has feed range from 2-20 microns in step of 2 microns each. Cabinet is of heavy gauge M.S.Sheet duly painted, and is mounted on four caster wheel fitted at bottom of easy mobility. fitted with solid state Digital Temp. Indicator-cum Controller and supplied with 120 m.m.knife, honing stone, object holder (set of 3) and low temp. oil

- (a) Temperature range upto - 30° c
- (b) Temperature range upto- 40° c

ASE-251 Automatic Knife Sharpner (A.O.spencer type) ALPHATM

(Modified Advance model)

Fitted with geared motor which ensures an equal level angle by moving the knife to and fro and in the process reversing the same at regulator intervals. A transparent hinged cover is fitted at top to prevent dust. An adjustable 0-60 minute timer is fitted to the unit for sharpening for a pre set duration. Knife of length upto 185m.m.can be sharpened on the unit. Supplied complete with one universal Knife holder one redressing pad, two honing plates and cord and plug to work on 220/230 A.C.

Optional Accessories

- (a) Micro Abrasive (Set of two bottles of 200 gms)
- (b) Spare glass plate
- (c) Spare Knife holder

ASE -252 Slide Carrying Tray ALPHATM

Made of heavy gauge aluminium sheet to hold 20 slides in flat position.

ASE -252A STAINING RACK FOR SLIDE BULK STAINING Hangers ALPHATM

Height 5 cm x length 40 cm.

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ASE-1056



XSP-01
ASE-1069A & B

ASE-1056 DISSECTION MICROSCOPE ALPHATM

This a deluxe Model with all brass parts and fitted with Bull eye Lens 80 MM dia and 10 x and 20 x achromatic eye Piece Packed in Ply Wood Box

ASE-1069A MICROSCOPE STUDENT ALPHATM

Same as GHS (Olympus type) Tube length 160 mm with smooth rack & pinion coarse adjustment, graduated fine motion, with 2 Huy eye pieces 10 x & 15 x (or 5x) Ach. objective 10 x 45 x (or 40 x) (S.L.) and 100 x objective with imported capsule mounted by us built in graduated mechanical stage, N.A 1.25 condenser with iris with rack & pinion adjustment, filter holder with day light filter plano concave reflecting mirror, with lock and key. **Other changes will be done on request or as per user specification**

ASE-1069B MICROSCOPE STUDENT ALPHATM

Same as HSA (Olympus type) Tube length 160 mm with smooth rack & pinion coarse adjustment, graduated fine motion, with 2 Huy eye pieces 10 x & 15 x (or 5x) Ach. objective 10 x 45 x (or 40 x) (S.L.) with imported capsule mounted by us built in graduated mechanical stage, N.A 1.25 condenser with iris with rack & pinion adjustment, filter holder with day light filter plano concave reflecting mirror, with lock and key.

Other changes will be done on request or as per user specification.

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BABY WEIGHING MACHINE ASE-2012B

- Aluminium pressure die cast body with sheet metal pan in attractive powder coated colors
- Sturdy and durable construction. Anti rust coated parts
- Easily removable pan with sliding mechanism. No screws
- Exclusive height scale for measuring length of babies provided on the pan
- Pan with attractive water resistant rexine for convenience of babies
- Full view dial helps ease in reading. The special 'moving' pointer mechanism eliminates unnecessary wear and tear of parts



Max Capacity: 10kg x 50gm • Dimensions (Excl. Pan.): 18 x 16 x 17

HUMAN WEIGHING MACHINE ASE-2013H

- High precision mechanism for greater sensitivity & accuracy
- Contemporary round design
- Clear magnifying break resistant lens encased in a sleek contoured lens holder
- Beautiful powder coated colors with stylish mats
- MS steel body
- Retractable carrying handle



Max Capacity: 125kg x 500gm • Dimensions (cm): 31 x 31 x 6

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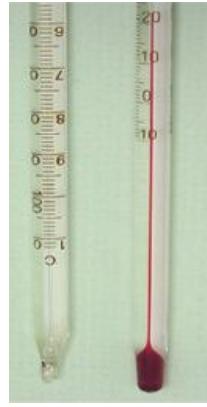


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ASE-1201



ASE-1200

URINOMETERS ASE-1201 are used to measure the w:specific gravity of w:urine; one floats the device in a tube of urine and reads off the number at the meniscus.

Description

This urinometer is composed of a float, a weight, and a stem. The float is an air-filled glass tube, ending in the weight on the left and the stem on the right. The weight is a bulb filled with ball bearings embedded in a red solid, probably a glue of some sort. The glass stem extends to the right, and has (calibrated) gradations and numbers marked off to indicate specific gravity measurements.

THERMOMETER LABORATORY ASE-1200

They are widely used in Physics Laboratory, Chemical Laboratory, Education system, Scientific research institutes, Pharmacy Laboratory, Experiment room, petroleum Lab etc.

Features:

- 1) Total Length is 300mm(Approx 12 inches)
- 2) Thermometer fluid: Mercury, blue or red organic liquid.
- 3) Measure range is -10 of 250 degree C or Others Temperature.
- 4) High accurately, Easy reading, Reasonable Price, Using facility
- 5) The way of immersion is partial 76mm or total immersion
- 6) Traditional handwork glass fire and advanced computer aided plot, everlasting amber silk screen printing made of all series of general solid-stem type glass thermometers and etched lab thermometer.

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**ASE-10A2 SLIDES:-HUMAN German SLIDES HISTOLOGY ANY
or as per your demand**

- | | | | |
|-----|----------------------------|-----|----------------------|
| 1. | Liose Areolar Tissue | 39. | Trachea |
| 2. | Dense Fibrous Tissues | 40. | Lunge |
| 3. | Adipose Tissue | 41. | Kidney |
| 4. | Hyaline Cartilage | 42. | Ureter |
| 5. | White Fibro Cartilage | 43. | Uranary Bladder |
| 6. | Yellow Elastics Cartilage | 44. | Urethra |
| 7. | Spongy Bone | 45. | Testis |
| 8. | Developing Bone | 46. | Epididynds |
| 9. | Smooth Muscle (T.S.L.S.) | 47. | Vas Deferring |
| 10. | Skeletal Muscle (T.S.L.S.) | 48. | Seminal Vesicle |
| 11. | Cardiac Muscle (T.S.L.S) | 49. | Prostate |
| 12. | Tonsil | 50. | Penis |
| 13. | Peyer's Pathges | 51. | Ovary |
| 14. | Appendix | 52. | Corous Luteum |
| 15. | Thymus | 53. | Fallopin Tubes |
| 16. | Lymphnode | 54. | Uterus |
| 17. | Spleen | 55. | Vagina |
| 18. | Elastic Arteries | 56. | Mammary Gland |
| 19. | Medium Sized Artery/Vein | 57. | Proliferaping Breast |
| 20. | Lip | 58. | Lactaring Breast |
| 21. | Tongue | 59. | Placenia |
| 22. | Salivary Glands | 60. | Umbilical Cord |
| 23. | Parotid | 61. | Pituitary |
| 24. | Submandibular | 62. | Thyroid gland |
| 25. | Sublingual | 63. | Para Thyroids |
| 26. | Oesophagus | 64. | Suprarenal Glands |
| 27. | Stemach Fundus / Pylorus | 65. | Cerebrum |
| 28. | Duodenum | 66. | Spinal Cord |
| 29. | Jejunum & Ileum | 67. | Spinal Ganglia |
| 30. | Colon | 68. | Sympathetic Ganglia |
| 31. | Liver | 69. | Skin |
| 32. | Gall Bladder | 70. | Lacrimal Gland |
| 33. | Pancrease | 71. | Cornea |
| 34. | Retina | 72. | Choroid Lens |
| 35. | Compaet bone | 73. | Epightis |
| 36. | Nerve | 74. | Eye ball |
| 37. | Optic Narve | 75. | Tooth |
| 38. | Nail | | |

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LIST OF SLIDES PRESENT IN EACH SLIDE SET

Sr.No	Name of slide	Sr.No	Name of slide
1.	T.S.AORTA	41	L.S CARDIAC
2.	T.S.ARTERY (MEDIUM)	42	T.S. NERVE
3.	T.S.ARTERY (SMALL)	43	T.S. OPTIC NERVE
4.	T.S.APPENDIX	44	T.S.OESOPHAGUS
5.	T.S.BONE GROUNDD	45	T.S.OVARY
6.	T.S.BONE-DECALCIFIED	46	T.S.PARATHYROID
7.	T.S.BONE-CANCELLOUS	47	T.S.PANCREAS
8.	L.S.BONE-DEVELOPING	48	T.S.PLACENTA
9.	L.S.BONE DECALCIFIED	49	T.S.PITUITARY
10.	T.S.CARTILAGE-COSTAL	50	T.S.PENIS
11.	T.S.CARTILAGE-ARTICULAR	51	T.S.PROSTRATE
12.	T.S.CARTILAGE WHITEFIBRE	52	T.S.SALIVARY GLAND (MUCOUS)
13.	T.S.CARTILAGE - YELLOWELASTIC	53	T.S. SALIVARY GLAND (SEROUS)
14.	T.S.CARTILAGE CELLULAR	54	T.S.SPINAL CORD
15.	T.S.CEREBRUM	55	T.S.SPINAL GANGLIA
16.	T.S.CEREBELLUM	56	T.S. SYMPATHETIC GANGLIA
17.	T.S.COLON	57	T.S.STOMACH (PYLORUS)
18.	T.S.CORNEA	58	T.S. STOMACH (FUNDUS)
19.	T.S.CORNEO-SCERALJUNCTION	59	T.S.SKIN(THICK)
20.	T.S.DUODENUM	60	T.S.SKIN (THIN)
21.	T.S.EPIGLOTTIS	61	T.S. SUPRARENAL GLAND
22.	T.S.EYE-LID	62	T.S.SPLEEN
23.	T.S.EYE-CHOROIDAND IRIS	63	T.S. TENDON
24.	T.S.EYE-BALL(RETINA& LENS)	64	L.S. TENDON
25.	T.S.EPIDIDYMIS	65	T.S. TRACHEA
26.	T.S.FALLOPIANTUBE	66	T.S. TONGUE
27.	T.S.GALL BLADDER	67	T.S.THYROID
28.	T.S.ILEUM	68	T.S. TESTIS
29.	T.S.JEJUNUM	69	T.S. TONSIL
30.	T.S.KIDNEY	70	T.S. TOOTH (DECALCIFIED)
31.	T.S.LIGAMENTUM NUCHAE	71	T.S. TOOTH (DEVELOPING)
32.	L.S.LIGAMENTUM NUCHAE	72	T.S.THYMUS
33.	T.S.LIVER	73	T.S.VAS DEFERENS
34.	T.S.LUNG	74	T.S.VAGINA
35.	T.S.LYMPHNODE	75	T.S. VEIN(SMALL
36.	T.S.MAMMARYGLAND {ACTIVE}	76	T.S. VEIN (LARGE)
37.	T.S.MAMMARY GLAND (INACTIVE)	77	T.S.UTERUS
38.	T.S.MUSCLEVOLUNTARY	78	T.S.URETER
39.	L.S.MUSCLE VOLUNTARY	79	T.S.URINARY BLADDER
40.	T:S.CARDIAC	80	T.S.UMBILICAL CORD

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ASE-3019



ASE-3020



ASE-3021



ASE-3023

DIGITAL WEIGHING MACHINE ASE-3020 200gm. sensitivity 0.01gm ALPHATM

SINGLE PAN ANALYTICAL BALANCE ASE-3020 ALPHATM

Technical Specifications

Weighing Principle	Substitution
Arrestment Vertical Damping	Air Knife Edges Best Selected Agate Bulb 12V/21Watt
Power Connection	220/230 AC
Pan Chrome-Nickel Steel	Performance Data
Weighing Range	200g
Readability	0.1mg
Optical Range	1000mg
Scale Division	10mg
Built in Mechanical Weight	1-199g

Standard Features

- Easy Operations
- Clear Vision in Scale
- 'Pan rest' to reduce the operating time
- Battery backup arrangement
- Operating knob in front.

CHEMICAL BALANCE ASE-3021 ALPHATM

Specifications

Laboratory Chemical Balance Double pan Analytical

CAPACITY 200 GMS. BRASS GRADUATED SHORT BEAM Sartorius type short graduated beam with rider arrangement and S. steel pans, fitted in teak wood polished case and sunmica base. Accuracy 1/10 mg.

Weight Box For Balance 1 mg to 100 gm.

Readability : 0.1 mg

Type : Triangular Beam

BALANCE EARANGER ASE-3022 ALPHATM

Capacity 6 Kg sensitivity 1/5 gms.

SPRING BALANCE ASE-3023 ALPHATM

Capacity 500 gm, 1000 gm., 2 KG, 5 Kg, 25 Kg, 50 Kg, 100 Kg

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ASE- 2005 DISSECTING INSTRUMENTS ALPHATM
S.S SETS INSTRUMENTS IN BOX

To conduct post mortem operations we supply a complete post mortem instrument set which are precise, efficient, dull, anti-stain & manufactured International Standards accurate and efficient.

Specification Of Featured Autopsy Kit Postmortem Set :

Blow Pipe
Amputation Saw
Postmortem Scissor
Bowel Scissor
Combined Hammer with Chisel
Bipod Skull Rest
Chisel with Detachable Cross Handle
Brain Knife
Catlin Knife
Cartilage Knife
Chain Hook Set of Three
Dissecting Forceps
Scalpel (Four Pieces)
Wooden Case

Manufactured By : SUDARSHAN CHEMICALS India 324007 0744-2362345, 09414188018

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ASE - 1302



ASE - 1303

ASE - 1302 X-RAY VIEWING LOBBY Four X Ray ALPHATM

steel body milky glass in front Box size 14" x 51" Horizontal15W warm white flourescent tube lights and electrical connections. epoxy powder coated is widely used in the applications of the medical sectors. On/Off switch with appropriate cable 230v, 50 Hz.

ASE- 1303 X-RAY VIEWING Double X Ray ALPHATM

steel body milky glass in front Box with tube lights and electrical connections. epoxy powder coated is widely used in the applications of the medical sectors.

ASE- 1304 X-RAY VIEWING Single X Ray ALPHATM

steel body milky glass in front Box with tube lights and electrical connections. epoxy powder coated is widely used in the applications of the medical sectors.

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ASE-2010



ASE-2011



ASE-3101



ASE-3102



ASE- 2010 HUMAN BRAIN ALPHATM
KNIFE S.S 12" or 14" (S.S. Handle)

ASE-2011 HAND SAW S.S. ALPHATM

FOR CUTTING BONES & LIMBS S.S.

ASE-3101 DRILL MACHINE ALPHATM

Complete with Jacob chuck key and motor 220V for
drillng in to bones skulls Capacity 0.5mm to 10 mm bits.

ASE-3102 ELECTRIC AUTOPSY SAW ALPHATM

Electric operated oscillatory movement saw for opening skull cavity
with high speed oscillation. stainless steel large section blade with
arbor and long 10-15 foot electrical cord and easily manageable on/
off switch.

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ASE-2010



ASE-2011



ASE-3101

ASE- 2010 HUMA BRAIN ALPHATM
KNIFE S.S 12" or 14" (S.S. Handle)

ASE-2011 HAND SAW S.S. ALPHATM

FOR CUTTING BONES & LIMBS S.S.

ASE-3101 Bone Cutter ALPHATM

For cutting bone etc.

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ASE - 2012



ASE - 2013



ASE - 2014

DISSECTION TABLE WITH S.S TOP ASE - 2012 (Autopsy Table) ALPHATM

L 6'.1' x H 3' x W 2' wide fitted over a study angle iron frame. The top is depressed from all sides towards a drain hole in center which complete into a sliding in sliding out replaceable. An appropriate hook under surface of table at the center hole to hang a bucket for collection of drainage & Waste

The top is fitted with a pair of stainless steel 304 Grag.

DISSECTION TABLE 3' X 2' I.E. HALF THE STANDARD SIZE WITH SS TOP ASE - 2013 ALPHATM

L 3' x H 3' x W 2' wide fitted over a study angle iron frame. The top is depressed from all sides towards a drain hole in center which complete into a sliding in sliding out replaceable. An appropriate hook under surface of table at the center hole to hang a bucket for collection of drainage & Waste

TROLLEY TABLE (STEEL, LIGHT) ASE-2014 ALPHATM

Postmortem Instrument Trolley (light duty with 2 pan). Equipped with two water tight pan of size 6' x 2' x 2.5'. Deep pans on top 2" in bottom fixed pan. With light source arrangement.

GLASS Museum Racks steel ASE-2016 ALPHATM

D.H. Rack & Museum with glass-rack Museum glass rack steel size 5 1/2' x 4' x 2' with fluorescent light with sliding door both side platform

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ASE-2012a



ASE-2013a

DISSECTION TABLE WITH S.S TOP ASE - 2012a (Autopsy Table) ALPHATM

Dissection table size 6'1"x2'x3' with heavy gauge (18) 304 stainless steel top with a no. 4 satin finish. M.S. pipe tubular (30mm) structure with S.S. top on thick & heavy M.S. angular frame (50mm) with waste water collection disposable tray. Top centrally grooved from all direction for water collection

DISSECTION TABLE 4' X 2' WITH SS TOP ASE - 2013a ALPHATM

Dissection table size-half standard size with heavy gauge (18) 304 stainless steel top with a no. 4 satin finish. M.S. pipe tubular (30mm) structure with S.S. top on thick & heavy M.S. angular frame (50mm) with waste water collection disposable tray. Top centrally grooved from all direction for water collection

TROLLEY TABLE (STEEL, LIGHT) ASE-2014 ALPHATM

Postmortem Instrument Trolley (light duty with 2 pan). Equipped with two water tight pan of size 432x835x51 mm deep pans.

GLASS Musium Racks steel ASE-2015 ALPHATM

D.H. Rack & Museum with glass-rack Musium glass rack steel size 5 1/2' x 4' x 2' with florescent light with sliding door both side platform

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AUTOPSY WORK STATION

Made of 18 gauge 304 grade Stainless Steel waste disposable system in build.
Facility to storage of instrument with locking system.
Perimeter flushing arrangement for self cleaning
Without revets, bolts, smooth working surface
Legs Four Nos.
Bowl should have reverse flow hydrospirator
Heavy duty plastic head rest.
Aligning L-module

Size 90-95" width 30-35" Height 3'

Manufactured By : SUDARSHAN CHEMICALS India 324007 0744-2362345, 09414188018

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ASE-2318 Dead Boby Platform Scales with Heavy Duty Platform

We are Manufacturers of Dead Boby Heavy Duty Platform Scales are further used in for weighing dead bobies.

Complete SS plate form for easy cleaning & antistaining.

Auto zero tracking.

Plate form size 2100mm x 600mm approx.

To weight machine capacity 200kg ,accuracy 20gm.

Stainless steel weighing pan. SS 304 Grade construction.

Low power Indication.

In-built Rechargeable battery backup for uses in power failure.

Battery mode led Indication.

Impact Load Protection. Imported Overloaded Protection cell (sensor) protection for enduring

performance up to 150 % capacity .

Specially design to keep the stretcher on scale .

Digital display for clear vision.

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ASE-2012 MORTUARY TABLE AUTOPSY WORK STATION ALPHATM

Made of 18 gauge heavy Stainless Steel Top with high border.

Strong SS tubular frame work made from SS 202 Material.

Facility to storage of instrument with locking system.

In built stainless steel Perimeter flushing sink arrangement for self cleaning with waste water tube.

Without revets, bolts, smooth working surface.

Legs Four Nos stainless steel with body support flat accessories.

Aligning L-module so that easy drainage can be done

Size 285 (L) x 90 (W) x 85(H) cm.

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ASE-129 PARAFFIN EMBEDDING BATH

(Ambient +5°C to 100°C)

Vacuum Embedding Bath is manufactured with stainless steel. Suitable to heat up paraffin wax for heat therapy. The vacuum embedding bath has two vacuum pots surrounded by water with glass viewing lids and a vacuum gauge per pot. Heating elements are securely embedded at the base of the bath vessel. The temperature is controlled by digital display, temp: controller with indicator, provided with lid and drain cock for the bath.

ASE-160 Water Bath Incubator Shaker (Metabolic Shaking Incubator)

Useful for constant temperature as well as uniform shaking, for applications involving manometric measurements such as inoculation of tissue slides, homogenates, protein coagulation, aerobic studies in atmosphere of various gasses or gas mixtures. It is a double walled unit with inside made of thick stainless steel and outer of mild steel duly enamel painted water droplets on the specimens. The gap between the two walls is filled with high grade glass wool in order to prevent thermal losses. Heating is achieved through a immersion type heater and the temperature is controlled by Digital Temperature controller / PID microprocessor with an accuracy of $\pm 0.5^{\circ}\text{C}$. The bath has an oscillating tray riding on rollers oscillated through a gear variable speed motor. Shaking speed range is between 40 to 180 cycles per minutes. The shaking tray can either hold test tubes or other. Supplied complete with one shaking tray, pyramidal cover, L-shaped thermostat cord and plug, to work on 220/230 volts A.C. Supply.

Available with heating arrangement only (having temperature range from ambient to 100°C)
Complete with long wire & three pin socket. Other changes will be done on request or as per user specification..

Available in following sizes :

- (a) 275x275x75mm.
- (b) 275x275x150mm.
- (c) 405x300x150mm.

OPTIONAL ACCESSORIES

- (a) Spare shaking tray or test tube be rack [for any part (a), (b) or (c)]
- (b) Digital Temperature Indicator-cum-Controller.

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ASE-320 AUTOPSY TABLE ADJUSTABLE :(POSTMORTEM TABLE)

ALPHATM

Specially for all kinds of postmortem work. The construction of these table incorporates state of the art engineering, heavy gauge stainless steel and conveniences. Autopsy stainless steel table mounted on tubular stand. Scientifically designed for maximum efficiency.

1. All body is be of stainless steel ss 316 grade and satin finish.
2. Large integral sink.
3. Table top, grid and sink should be of 18 Gauze stainless steel 316 grade. The pedestal should be of 18 Gauze stainless Steel. All steel will be of above mentioned type and finish.
4. It have Hydro-aspirator with reverse flow features, control valve.
5. Hot and cold water fixtures with sprayer handle and single lever hot and cold mixing provisions.
6. It have sink spray assemble with long flexible hose.
7. At least one electrical receptacle 220-240 Volts, AC 50 Hz .
8. All plumbing and electric work should be accomplished at factory.
9. It Will be supplied with Polyurethane Head Rest – must be able to support neck while dissection
10. It Will be provided with Stainless Steel Centimeter Scale engraved type.
11. Aligning L-module
12. Facility to storage of instrument with locking system.
13. Perimeter flushing arrangement for self cleaning

Provided with two nos 6" wide body supports removable type six position head rest, crusher for disposal, chrome plated swing spout mixing faucet for hot and cold water, lever handle for waste/drain and deep & large S.S. Sink with overflow & self cleaning system.

It can be fabricate as per your specification or mutual understanding.

OVERALL DIMENSION

- a. Size 90-95" widh 30-35" Height 36" adjustable.
- b. Size 110" widh 35" Height 36" Height adjustable.
- c. Size 100" widh 28" Height 34" Height adjustable.

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AUTOPSY TABLE ADJUSTABLE :(POSTMORTEM TABLE)

Specially for all kinds of postmortem work. The construction of these table incorporates state of the art engineering, heavy gauge stainless steel and conveniences. Autopsy stainless steel table mounted on tubular stand. Scientifically designed for maximum efficiency.

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2. Large integral sink.
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4. Hot and cold water fixtures with sprayer handle and single lever hot and cold mixing provisions.
5. It have sink spray assemble with long flexible hose.
6. At least one electrical receptacle 220-240 Volts, AC 50 Hz .
7. All plumbing and electric work should be accomplished at factory.
8. It Will be supplied with Head Rest – must be able to support neck while dissection
9. Facility to storage of instrument with locking system.
10. Perimeter flushing arrangement for self cleaning

Provided with two nos 6" wide body supports removable type six position head rest, chrome plated swing spout mixing faccuet for hot and cold water, lever handle for waste/drain and deep & large S.S. Sink with overflow.

OVERALL DIMENSION

Size 90-95"widh 30-35" Height 36" adjustable.

Rates Given by your department is very less it should be more them 150000.00 Each

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ASE-179



ASE-180



ASE-189

ASE-179 Medico Centrifuge

- (a) With 4x15ml. Swingout head (3500 r.p.m.)
- (b) With 6x15ml. Swingout head (3500 r.p.m.)
- (c) With 8x15ml. Swingout head (3500 r.p.m.)

Other changes will be done on request or as per user specification.

ASE-180 Compact Laboratory Centrifuge (Rectangular Body)

- (a) With stepless Solid State speed regulator, indication lamp and see through acrylic lid with easy lid lock, safety fuse, with puller but without rotor heads, Maximum Speed 5000 r.p.m.
- (b) -do- but with 0-60 minutes timer.

Other changes will be done on request or as per user specification.

Head & Accessories for above centrifuges

- (a) 12x15ml swingout or angle head complete with Glass / Polypropylene tubes.
- (b) 4x50ml swingout or angle head complete with Glass / Polypropylene tubes.

ASE-189 Mini Centrifuge

- (a) PCR strip Rotor to accommodate 2 strip of 8 x 0.2 ml 6 x 1.5 ml fixed angle rotor. Adaptor for 0.2 ml & .05 ml tubes. Speed 100 to 6000 RPM. Safety lid interlock to prevent cover opening during centrifugation.

Quick acceleration to full speed.

Supply 220 -240volts 50 Hz single phase.

Spares 6 x 1.5 ml tubes & rotor for 8 x 200 ul tube strips-1 each

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ASE-237 Digital Conductivity Meter ALPHATM

Display : 4 digit LED

Range : Conductance = 0.1 micro ohm to 1000 mmohm in 5 ranges,

0-200 umhos, 2 mmohm, 20 mmohm, 200 ohms, 1000 ohms
Resistance = 0.1ohm to 2 M Ohm in 5 ranges, 0 to 200 ohms, 2K.

Accuracy : Conductance = $\pm 0.5\%$ of range ± 1 digit.

Resistance = $\pm 0.5\%$ of range ± 1 digit.

Power Supply: 220/230 Volts $\pm 10\%$ 50 Hz A.C. built in stabilizer.

Supplied with conductivity cell, Dust Cover and Instruction Manual.

OPTIONAL ACCESSORIES

- (a) Automatic Temp. Compensation from 0° to 70°C with PT-100 sensor.
- (b) Temp. Indication from 0°C to 100°C.
- (c) Recorder output facility.
- (d) Spare Conductivity Cell.

ASE-238 Digital T.D.S. and Conductivity Meter (Combined) ALPHATM

Display 4 digit LED, Conductance 0 to 100 micro ohms, 2 mohm, 20 mohm, 200 mohm, 1000 mohm, 1000 mohm and T.D.S. 0 to 200 PPM, 0 to 2000 PPM, 0 to 20 PPT, 0 to 200 PPT, 0 to 1000 PPT, Resolution in lowest range to T.D.S. = 0.1 PPm, Accuracy $\pm 0.5\%$ of range ± 1 digit. Supplied complete with T.D.S./Conductivity Cell(one No.) dust cover, electrode stand and instruction manual.

ASE-239 Photoelectric Colorimeter Digital (8 Filters) ALPHATM

It is a rugged, reliable, elegant and compact blood and chemical analyser. It performs the end point chemical and biochemical analysis accurately and concentration and displayed directly on the digital display.

The use of latest microcircuit technology has increased accuracy, stability, reproducibility and precision. It is an extremely useful instrument for clinical, metallurgical, chemical and water analysis.

It has 8 high standard glass filters ranging from 400 to 680 nm. wave length. Complete with 6.8V/250mA. lamp light source, Special selenium Photocell Detector and Sample system of 15mm. dia matched glass cuvettes.

(b) Advance Model : With 8 filter and automatic display of concentration value. Final results are flashed on the digital panel with No Calculation Required (Sample 1ml. required)

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ASE-179



ASE-180



ASE-181

ASE-179 Medico Centrifuge ^{ALPHA™}

- (a) With 4x15ml. Swingout head (3500 r.p.m.)
- (b) With 6x15ml. Swingout head (3500 r.p.m.)
- (c) With 8x15ml. Swingout head (3500 r.p.m.)

Other changes can be done on request or as per user specification.

ASE-180 Compact Laboratory Centrifuge (Rectangular Body) ^{ALPHA™}

- (a) With Solid State speed regulator, indication lamp and see through acrylic lid, with puller but without rotor heads, Maximum Speed 4000 r.p.m.
- (b) -do- but with 0-60 minutes timer.

Other changes can be done on request or as per user specification.

Head & Accessories for above centrifuges ^{ALPHA™}

- (a) 8x15ml swingout or angle head complete with tubes.
- (b) 4x50ml swingout or angle head complete with tubes.

ASE-181 Table Top General Purpose Centrifuges (Rectangular Body) ^{ALPHA™}

- (a) With Solid State speed regulator with zero starting switch, speed range load 500 to 5000 rpm nickwl plated bucket with 15 CC graduated centrifuge glass tubes superior steel guard removable cover mounted on cast iron base with antivibration cushion .Indication lamp and see through acrylic lid, 8,12,16 Tubes can be fitted. 1/5 H.P Motor 220 V AC/DC. Other changes can be done on request or as per user specification.
- (b) -do- but with 0-60 minute Digital countdown timer.

Head & Accessories for above centrifuges

- (a) 16x15ml Swingout or angle head complete with tubes.
- (b) **12x15ml Swingout or angle head complete with tubes.**
- (c) 8x15ml Swingout or angle head complete with tubes.
- (d) 6x50ml Angle head complete with tubes.
- (e) 4x50ml Swingout or angle head complete with tubes.

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ASE-179 Medico Centrifuge ALPHATM

- (a) With 4x15ml. Swingout head (3500 r.p.m.)
- (b) With 6x15ml. Swingout head (3500 r.p.m.)
- (c) With 8x15ml. Swingout head (3500 r.p.m.)

Other changes can be done on request or as per user specification.

ASE-180 Compact Laboratory Centrifuge (Rectangular Body) ALPHATM

- (a) With Solid State speed regulator, indication lamp and see through acrylic lid, with puller but without rotor heads, Maximum Speed 4000 r.p.m.
- (b) -do- but with 0-60 minutes timer.

Other changes can be done on request or as per user specification.

Head & Accessories for above centrifuges ALPHATM

- (a) 8x15ml swingout or angle head complete with tubes.
- (b) 4x50ml swingout or angle head complete with tubes.

ASE-181 Table Top General Purpose Centrifuges (Rectangular Body) ALPHATM

With Solid State speed regulator with zero starting switch, linear and stable, speed range load 500 to 6000 rpm nickwl plated bucket with 5ml,7ml, 10ml & 15ml centrifuge glass tubes superior steel guard removable cover mounted on cast iron base with antivibration cusion with auto balancing system. Indication lamp and see through acrylic lid, 8,12,16 Tubes can be fitted. 1/5 H.P DC Moter. Safety switch, whencover is opened, Manual/Auto brake, the unit will motor will be stopped with adjustable 0-30 minute countdown time & Digital tachometer Other changes can be done on request or as per user specification.

Head & Accessories for above centrifuges

- (a) 16x15ml Swingout or 45° angle head complete with tubes.
- (b) 12x15ml Swingout or 45°angle head complete with tubes.
- (c) 8x15ml Swingout or 45°angle head complete with tubes.
- (d) 6x50ml 45° Angle head complete with tubes.
- (e) 4x50ml Swingout or 45°angle head complete with tubes.

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ASE-181

ASE-179 Medico Centrifuge ALPHA[®]

- (a) With 4x15ml. Swingout head (3500 r.p.m.)
- (b) With 6x15ml. Swingout head (3500 r.p.m.)
- (c) With 8x15ml. Swingout head (3500 r.p.m.)

Other changes can be done on request or as per user specification.

ASE-181 Table Top Laboratory Centrifuges (Rectangular Body) ALPHA[™]

Brushless Centrifuge Machine 1/8 H.P. Motor 220V. AC / DC Regulator. Speed range 500 to 4500rpm on load, Which should be controlled by variable speed regulator. It should be fitted with digital Timer 0-59 minutes and digital speed indicator. The machine should be supplied with Angle rotor head having 12 tubes of 15 ml cap. It should be completed with S.S tube carrier. Rubber cushions, 12 graduated glass tubes of 15ml cap and should also be supplied with 12 graduated plastic tubes of 15ml cap. The lid should be double walled, made of ABS plastic injection molding for extra safety having lid lock. It should also be-fitted with electronic lid lock which should not open when machine is in running condition. It should be off when machine is off after running the cycle. The Motor of machine should be fitted of anti-vibration pads. Supplied completed with instruction manual, cord and plug, dust cover, 12 spare rubber cushions, 2 spare fuse. Should be well packed in thermocol box.

Head & Accessories for above centrifuges

- (a) 16x15ml Swingout or 45° angle head complete with tubes.
- (b) 12x15ml Swingout or 45°angle head complete with tubes.
- (c) 8x15ml Swingout or 45°angle head complete with tubes.
- (d) 6x50ml 45°Angle head complete with tubes.
- (e) 4x50ml Swingout or 45°angle head complete with tubes.

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ASE-160 Water Bath Incubator Shaker (Metabolic Shaking Incubator) *ALPHA[®]*

Useful for constant temperature as well as uniform shaking, for applications involving memometric measurements such as inoculation of tissue slides, homogenates, protein coagulation, aerobic studies in atmosphere of various gasses or gas mixtures. It is a double walled unit with inside made of thick stainless steel and outer of mild steel duly enamel painted water droplets on the specimens. The gap between the two walls is filled with high grade glass wool in order to prevent thermal losses. Heating is achieved through a immersion type heater and the temperature is controlled by hydraulic type thermostat with an accuracy of $\pm 0.5^{\circ}\text{C}$. The bath has an oscillating tray riding on rollers oscillated through a gear variable speed motor. Shaking speed range is between 40 to 140 cycles per minutes. The shaking tray can either hold test tubes or Erlenmeyer flasks of 25 ml or 50 ml or 100 ml or 250 ml 500 ml or 1000 ml, as ordered by the users. (Kindly maintain the capacity of the flasks while ordering). Supplied complete with one shaking tray, pyramidal cover, L-shaped thermostat cord and plug, to work on 220/230 volts A.C. Supply.



ASE-160

Available with heating arrangement only (having temperature range from ambient to 100°C) or with both heating and cooling arrangements (heaving temperature range from 5°C to 100°C). Cooling is brought by ISI marked SHRIRAM make compressor. Complete with long wire & three pin socket. Other changes will be done on request or as per user specification..

Available in following sizes :

With GERMAN Thermostat Temp.Ambient to 100°C Temp. 5° to 100°C
(a) 275x275x75mm.
(b) 275x275x150mm.
(c) 405x300x150mm.



ASE-323(a)

**ASE-323 Bacteriological Shaking Incubator "ALPHA"
(Microprocessor Controlled) *ALPHA[®]***

Body made of thick stainless steel sheet (SS304 GRADE). Top lid is made up of transparent see through plexi glass. A variable speed upto 25 to 400 RPM rotary shaker platform is fitted with IMPORTED DC DRIVEN MOTOR for continuuus operation. ALL "ALPHA" unit are also fitted with MICROPROCESSOR DIGITAL RPM/ SPEED INDICATOR. The shaking platform can accomodate 16 flasks of 250/500ml or 25 flasks of 100ml or 36 flasks of 50ml . is provided at the base of incubator so as to shake erlynmeyer flasks. Complete with Timer. The variable speed motor is fitted outside of the inner chamber, at the base.



ASE-323

The complete unit is mounted on a sturdy angle iron frame. Temperature is controlled by Microprocessor Based PID Digital Temperature Indicator - Cum- Controller from ambient to $70 \pm 0.5^{\circ}\text{C}$. The unit is fitted with air circulation fan for Temperature uniformity. To work on 220/230 volts A.C. Supply.

Platform Size : 550 x 550 mm. (Cap.200 ltrs.)

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ASE-179



ASE-180



ASE-181

ASE-179 Medico Centrifuge ALPHA[™]

- (a) With 4x15ml. Swingout head (3500 r.p.m.)
- (b) With 6x15ml. Swingout head (3500 r.p.m.)
- (c) With 8x15ml. Swingout head (3500 r.p.m.)

Other changes will be done on request or as per user specification.

ASE-180 Compact Laboratory Centrifuge (Rectangular Body) ALPHA[™]

- (a) With Solid State speed regulator, indication lamp and see through acrylic lid, with puller but without rotor heads, Maximum Speed 4000 r.p.m.
- (b) -do- but with 0-60 minutes timer.

Other changes will be done on request or as per user specification.

Head & Accessories for above centrifuges

- (a) 8x15ml swingout or angle head complete with tubes.
- (b) 4x50ml swingout or angle head complete with tubes.

ASE-181 Table Top General Purpose Centrifuges (Rectangular Body) ALPHA[™]

- (a) With Digital solid state speed meter, indicating lamp and see through acrylic lid with head puller with Dynamic Brake but without head Maximum Centrifuge force "g" 7400, Maximum speed 4500 rpm. Safety lid interlock to prevent cover opening during centrifugation, Step less speed regulator with zero start switch.
- (b) -do- but with 0-120 minute Digital countdown timer.

Other changes will be done on request or as per user specification.

Head & Accessories for above centrifuges

- (a) 16x15ml Swingout or angle head complete with tubes.
- (b) 12x15ml Swingout or angle head complete with tubes.
- (c) 8x15ml Swingout or angle head complete with tubes.
- (d) 6x50ml Angle head complete with tubes.
- (e) 4x50ml Swingout or angle head complete with tubes.

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ASE-118 Lyophilizer (Freezer Dryer) Capacity 5 Kg. Approx ALPHA^R

Freeze Drying is a technique of fundamental importance to the biological sciences in general and micro-biological sciences in particular. In brief, freeze drying is removal of water from a specimen. Heat lable materials including proteins, anti-biotics, vitamin preperations, blood plasma hormones, tissue micro-organisms etc. can now be preserved for years without any significant loss of activity.

"ALPHA" Freeze Dryer (Lyophilizer) Laboratory Model is housed in a super structure stainless steel frame with removable side panels mounted on swivel casters. Complete with copper coil (Bonded outside), perpex see through lid, gasket and control instrument of Temp and Electronic Vacuum Indicator.

The unit made out of hermatically sealed compressor and with 100 litres/min direct motor drive rotary vane type vacuum pump of double stage with Air ballast having ultimate vacuum pump of double stage with Air ballast having ultimate vacuum of 1×10^3 torr on pump head. Temperature range -40°C at ambient temperatruue of 20°C.

Condensor Trap : All non-magnetic stainless steel fabrication, argon welded, dished-bottom for complete effluent removal. Refigeration coils made of copper bonded to outside of condensor heavily insulated Temp is adjustable to -40°C and is maintained automatically.

Vacuum Drum has 12 port manifold (Main drying chamber) made of stainless steel non-magnetic grade with prepex top cover.

CAPACITY : 5 Kg.

OPTIONAL ACCESSORIES

- (a) Secondary Drying Unit
- (b) Pre-Freezer Attachment
- (c) Automatic Voltage Stabilizer 5.0 KVA.

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ASE-OB 213

ASE-OB 213 DEIONIZER (Double Bed) ALPHA[®]

It consists of an in-built pre filter and very high exchanging capacity non-corrosive CATION and ANION resin columns prefilled with imported RESINS for efficient results having treated water parameters confirming to IS - 1069/64. It yields chemically pure water equal to multiple distilled water having conductivity of less than 10 microsiemens / cm and pH of 7.0 to 9.0 pH. Fitted with a sturdy PVC multi-control valve and can be connected direct to water taps. The conductivity meter operates on both AC supply and 9.0 Volt DC battery. Supplied with one plastic chemical proof regeneration tank and the complete unit is housed in a painted M.S Trolley for easy mobility. Available with Conductivity Meter.

Model No. S-50 S-70 S-100 S-150 S-200
Analogue Model
Digital Model.

Manufactured By : SUDARSHAN CHEMICALS India 324007 0744-2362345, 09414188018

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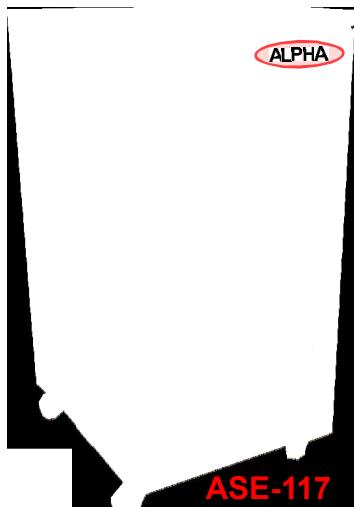


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Chart Recorder.



ASE-117 Blood Bank Refrigerator / Storage Cabinet for Reagent Kits ALPHA[®]

For conserving whole blood and storing it under constant temperature conditions, it is the most versatile unit for blood banks. Mounted on a sturdy angle frame with double wall, inner chamber is made up of stainless steel and outer of Stainless Steel Non-Corrosive, Non Magnetic. High grade mineral glass wool is filled between inner and outer chambers to minimize thermal loss.

The unit is provided with a door with lock and key & inner flexi glass door. Forced centrifugal air draft system for maintaining positive air flow for constant temperature throughout the chamber.

The temperature is maintained frost free within 2°C to 6°C with ± 1°C Accuracy, for storing Reagent Kits or blood bags. Temperature is controlled by Solid State Digital Indicator-cum-Controller and triggers the Audio Visual Alarm in the event of fluctuations beyond permitted tolerance. Unit is also fitted with door operated alarm and power supply failure alarm, as a safety device. Drawers are provided for holding bags/bottles. Drainage for safety of whole unit. Fitted with ISI marked Kirloskar/ SHRIRAM make compressor CFC free and has cooling coils running thought out the chamber for temperature uniformity. Whole construction is rat preventive, with Voltage stabilizer for voltage correction & power fluctuation . Caster wheels are provided for easily mobility. To work on 220/240 volts 50 Hz A.C. Supply Single Phase. Other changes can be done on request or as per user specification.

Available in following capacities

Capacity Approx	Items	No Of Trays	External Dimensions Approx W X D X H (cm)
(a) 50-60	Blood Bags / Reagent Kits	3	58 X 65 X 130
(c) 140-150	Blood Bags / Reagent Kits	4	70 X 75 X 150
(d) 200-220	Blood Bags / Reagent Kits	5	78 X 80 X 170
(e) 250-300	Blood Bags / Reagent Kits	6	85 X 95 X 210

OPTIONAL ACCESSORIES

- (a) Circular Seven days Chart Type Temperature Recorder.
- (b) Seven days Strip type Chart Temperature Recorder graphic inkless with rechargeable battery backup including charger.
- (c) Microprocessor Automatic controller along with built in stand by controller.
- (d) Servo controlled voltage Stabilizer

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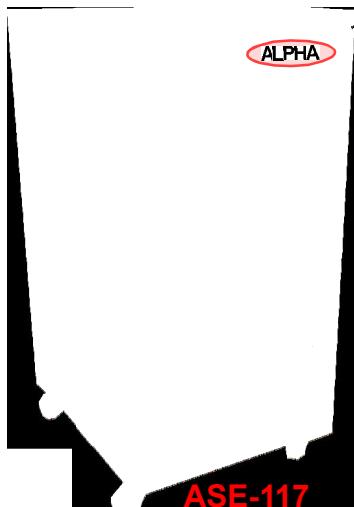


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Chart Recorder.



ASE-117

ASE-117 Blood Bank Refrigerator ALPHA™

For conserving whole blood and storing it under constant temperature conditions, it is the most versatile unit for blood banks. Mounted on a sturdy angle frame with double wall, inner chamber is made up of stainless steel and outer of Stainless Steel Non-Corrosive, Non Magnetic. High grade mineral glass wool is filled between inner and outer chambers to minimize thermal loss.

The unit is provided with a door with lock and key & inner flexi glass door. Forced centrifugal air draft system for maintaining positive air flow for constant temperature throughout the chamber.

The temperature is maintained frost free within 2°C to 6°C with ± 1°C Accuracy, for storing Reagent Kits or blood bags. Temperature is controlled by Solid State Digital Indicator-cum-Controller and triggers the Audio Visual Alarm in the event of fluctuations beyond permitted tolerance. Unit is also fitted with door operated alarm and power supply failure alarm, as a safety device. Drawers are provided for holding bags/bottles. Drainage for safety of whole unit. Fitted with ISI marked Kirloskar/ SHRIRAM make compressor CFC free and has cooling coils running thought out the chamber for temperature uniformity. Circular Seven days Chart Type Temperature Recorder. Whole construction is rat preventive, Caster wheels are provided for easily mobility. To work on 220/240 volts 50 Hz

A.C. Supply Single Phase. Other changes will be done on request or as per user specification. Blood Bank is Guaranteed for 2 year with free service if required.

Available in following capacities

Capacity Approx	Items	No Of Trays	External Dimensions Approx W X D X H (cm)
(a) 60-75	Blood Bags	2-3	54 X 59 X 105
(c) 140-150	Blood Bags	3-4	70 X 75 X 150
(d) 200-250	Blood Bags	4-5	78 X 80 X 170
(e) 300-350	Blood Bags	6-7	85 X 95 X 210

OPTIONAL ACCESSORIES

- (a) Circular Seven days Chart Type Temperature Recorder.
- (b) Seven days Strip type Chart Temperature Recorder graphic inkless
- (c) Microprocessor Automatic controller along with built in stand by controller.
- (d) Servo controlled voltage Stabilizer
- (e) Battery Backup 4 Hours for chart recorder.

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Chart Recorder.

ASE-117 Blood Bank Refrigerator ALPHA[®]

ASE-117

For conserving whole blood and storing it under constant temperature conditions, it is the most versatile unit for blood banks. Mounted on a sturdy angle frame with double wall, inner chamber is made up of stainless steel and outer of CRCA Sheet duly Powder Coated / Stoving painted or Complete Stainless Steel as per customer demand. 3"High grade mineral glass wool /PUF Insulation is filled between inner and outer chambers to minimize thermal loss.

The unit is provided with a face lifting door with lock and key & inner flexi glass door. Forced centrifugal air draft Humidity control system for maintaining positive air flow for constant temperature throughout the chamber.

The temperature is maintained within 2°C to 6°C, for storing blood bottles or blood bags. Temperature is controlled by Microprocessor digital Indicator-cum-Controller and triggers the Auto Visual Alarm in the event of fluctuations exceeding permitted tolerance. Unit is also fitted with door operated alarm and power supply failure alarm, as a safety device. Drawers are provided for holding bags/bottles. Drainage for safety of whole unit. Fitted with ISI marked Kirlsokar/SHRIRAM make compressor CFC free and has cooling coils running thought the chamber for temperature uniformity with Auto defrost. Built-in temperature recorder having single pen to record seven days temperature. Whole construction is rat preventive. Complete with 3 KVA Voltage Stablizer Caster wheels are provided for easily mobility. To work on 220/230 volts A.C. Supply. Unit can be provided with seprate refrigeration system in case of regular system fails of customer/user demand. Other changes can be done on request or as per user specification. Blood Bank is Guaranteed for 2 year with free service if required.

Available in following capacities

Capacity Approx	Items	No Of Trays	External Dimensions Approx W X D X H (cm)
(a) 50-60	Blood Bags	3	58 X 65 X 130
(c) 140-150	Blood Bags	4	70 X 75 X 150
(d) 200-250	Blood Bags	5	78 X 80 X 170
(e) 300-350	Blood Bags	6	85 X 95 X 210

OPTIONAL ACCESSORIES

- (a) Chart Type Temperature Recorder.
- (b) Temperature Recorder thermal Paper / Digital printing System.
- (c) Servo controlled voltage Stabilizer

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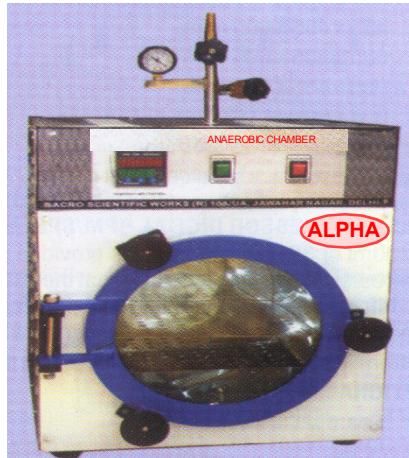
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ASE-1067 - ANAEROBIC CHAMBER: **ALPHA[®]**

It should be double walled with outer walled made up of M.S. Sheet duly enamel painted and inner made of heavy gauge Stainless Steel sheet (SS 304 grade). Temperature range 5 C to 60 C controlled by Microprocessor Computer base data controlled. Digital Humidity Temperature controller with printer and computer, an accuracy of $\pm 1^{\circ}$ C. Vacuum pump with Nitrogen Gas arrangement provided with vacuum gauge, Synthetic door gesket made of neoprene rubber should be fitted to all units instead of asbestos. See through transparent window of toughened glass and two shelves, castor wheels at its base. Work on 220/230 Volts AC supply and capacity with cord and plug and Voltage Stabilizer 2 KVA.

Other changes can be done on request or as per user specification..

Available Sizes (Dia.xDepth) :

INNER SIZE (DIA X DEPTH) WITHOUT PUMP WITH VACUUM PUMP

- (a) 200x200x200mm.
- (b) 250x250x250mm
- (c) 250x300x300mm.
- (d) 300x300x300mm
- (e) 450x450x450mm.

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ASE-255



ASE-258

ASE-255 Microslide cabinet (Closed pack Manner) ALPHA™

For storing 3" x 1" slides in vertical position one after other in a closed pack manner. Made of thick steel sheet duly painted. Each drawer moves in a slot and is removable for easy lifting. Complete with lock and key with quality caster wheel for easy movement.

Other changes can be done on request or as per user specification..

CAPACITY 25000 slides in 80 drawers

ASE-258 Block cabinet (Horizontal manner) ALPHA™

This mild steel strong cabinet, duly painted is most suitable for strong of 16"x16"x1.5 mm drawer in horizontal manner. Each drawer is fitted with handle, lock and key with quality caster wheel for easy movement.

Other changes can be done on request or as per user specification..

CAPACITY 100 drawers total capacity of block 25000 nos

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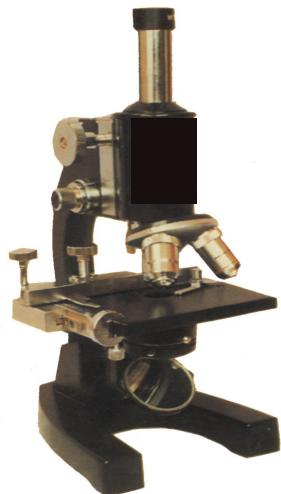


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ASE-3



ASE-2

ASE-2 PATHOLOGICAL MONOCULAR MICROSCOPE OPTICS ISI : 4381:1967 ALPHATM

Optics with Amendment No.1&2 complete in all respects including wooden carrying case. The standard microscope shall be equipped with One 10x Wide Field Eye-piece 4nos Objectives, Parfocal Achromatic, 4x 10x 40x SL and 100x SL Oil immersion.

Stage: Horizontal Mechanical of 120 x 125 mm Min.

Illumination: High intensity compact light source 6V20W Halogen lamp with on/off switch, light intensity regulator and Plano concave mirror attachment suitable for 220V, 50 Hz.AC supply

ASE-3 PATHOLOGICAL BINOCULAR MICROSCOPE INCLINED ALPHATM

Pathological binocular microscope inclined tube type Optics ISI marked IS 4381/67 with Amendment carrying case. The standard microscope shall be equipped with: Two 10x Wide Field Eye-pieces 4nos Objectives, Parfocal Achromatic, 4x 10x 40x SL and 100x SL Oil immersion.

Stage: Horizontal Mechanical of 120 x 125 mm Min.

Illumination: High intensity compact light source 6V20W Halogen lamp with on/off switch, light intensity regulator and Plano concave mirror attachment suitable for 220V, 50 Hz.AC supply

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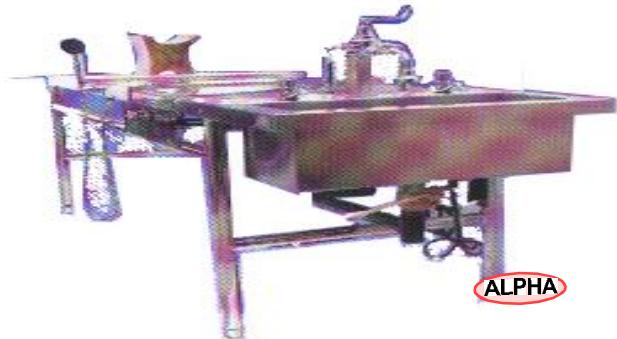
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ALPHATM

ASE-320 AUTOPSY TABLE PADESTAL VENTILATED VERTICAL ADJUSTABLE:

Specially for all kinds of postmortem work. The construction of these table incorporates state of the art engineering, heavy gauge stainless steel and conveniences. Autopsy stainless steel table mounted on tubular stand. Scientifically designed for maximum efficiency.

1. Overall dimension
- a. Length -250 to 260 cm
- b. Width – 75 to 80 cm
- c. Height -90 to 100cm
2. Elevation range 10 to 15cm.
3. Weight lifting capacity of more than 150kg.
4. Down draft ventilation system.
5. All body is be of stainless steel ss 304 grade and satin finish.
6. Large integral sink.
7. Table top, grid and sink should be of 14 Gauze stainless steel. The pedestal should be of 14-16 Gauze stainless Steel. All steel will be of above mentioned type and finish.
8. The table top can have removable grid plate.
9. It have Hydro-aspirator with reverse flow features, control valve, vacuum breaker and long lasting PVC tubing.
10. Hot and cold water fixtures with sprayer handle and single lever hot and cold mixing provisions.
11. It have sink spray assemble with long flexible hose.
12. Atleast one electrical receptacle of GFCI Type 220-240 Volts, AC 50 Hz and should have water proof cover.
13. All plumbing and electric work should be accomplished at factory.
14. It Will be supplied with Polyurethane Head Rest – must be able to support neck while dissection
15. It Will be provided with Stainless Steel Centimeter Scale – must be engraved type.
16. It Will be supplied with Polyurethane dissecting board – 2 feet X 1 ½ feet X ¾ inch, grained surface, white.

Provided with two nos 6" wide body supports removable type six position head rest, crusher for disposal, chrome plated swing spout mixing faucet for hot and cold water, lever handle for waste/drain and deep & large S.S. Sink with overflow.

It can be fabricate as per your specification or mutual understanding.

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ASE-148

ASE-148 Muffle Furnace (Grooved Reractory Type) 

Electric Furnace upto 1400°C , with ceramic Fiber wool insulation / brick insulation. The outer casing is made of double wall thick P.C.R.C. sheet , reattached with thick perforated sheet on the bottom portion. Heating element are made of KANTHAL "A-1" wire and inside chamber made of GROOVED REFRACTORY for supporting the heating element on four side and backed by high temperature cerwool insulation , Temperature unit consist of energy regulator, fitted in front of furnace with two pilot lamp , Apparatus is complete with solid state Electronic Blind Controller , Digital Temperature Indicator-cum-controller, Voltmeter, Ammeter and long wire and socket. **Other changes can be done on request or as per user specification.**

MUFFLE SIZE (W x D x H) RATING

(a)	125x125x300mm.	4.0 KW
(b)	150x150x150mm.	4.5 KW
(c)	200x200x300mm.	6.0 KW
(d)	300x300x300mm.	10.0 KW

OPTIONAL ACCESSORIES

- (a) Solid State Electronic Blind Controller
- (b) Digital Temperature Indicator-cum-Controller.

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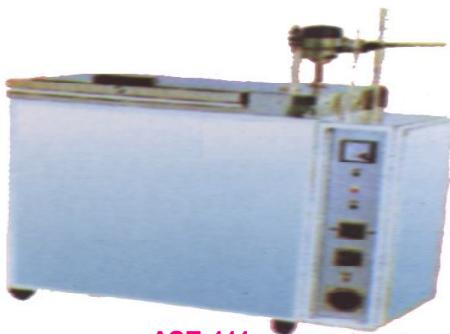
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ASE-111



ASE-113

ASE-111 Refrigerated Water Bath (Low Temperature)

Mounted on a sturdy angle iron frame the inner chamber is made of thick stainless steel and outer of mild steel duly enamel painted. The cooling coils are soldered to the outer side of the inner S.S.304 sheet. Chamber in order to achieve perfect cooling effect. The gap between the inner and outer wall is fitted with high grade glass wool in order to prevent any loss of temperature. Fitted with ISI market SHRIRAM made compressor for effective cooling. Heating id brought about by immersion heating elements. Temperature range from -10°C to 100°C is controlled by mercury contact thermometer with an accuracy of + 0.02°C. A high speed stirrer is fitted to maintain temperature uniformity. The lid of the bath id insulated double walled, fixed with hinges and is provided with locking arrangement. Inner Chamber. *Other changes can be done on request or as per user specification.*

Size : 500x250x250mm.

OPTIONAL ACCESSORIES

- (a) F.H.P. pump for circulating the cooled liquid to external source e.g. in the condenser coil of soxhlet Apparatus etc.
- (b) Digital Temperature indicator-cum-Controller.
- (c) Automatic Voltage Stabilizer 3.0 KVA.

ASE-113 Orbital Shaking Incubator / Water Bath

Most useful for growing cultures of micro-organisms and tissue cells under controlled conditions of temperature and agitation. The platform containing samples is set into the circular motion in a horizontal plane, which ensures uniform mixing, minimises accretion of material on the sides of the flasks and provides good transfer of gas to the culture and avoids undue buffering of the organisms and cells.

The outer chamber is made up of M.S. Sheet duly painted and inner chamber glass wool to avoid thermal loss. The lid of chest type unit is fitted with fluorescent range from 5°C to 60°C + 1°C. When the tube lights are ON temperature range is from 10°C to 50°C. Air Circulation fan is fitted to maintain temperature uniformity through. Cyclic illumination conditions are controlled by an automatic timer (0-24 hrs.) fitted to the unit. Hermetically sealed compressor is fitted to the unit for efficient cooling. To work on 220/230 volts A.C. Supply. The shaker has variable speed and a platform containing 16 flasks of 500ml capacity is supplied with the unit as standard accessory. *Other changes can be done on request or as per user specification.*

OPTIONAL ACCESSORIES

- (a) Spare shaking platform to accommodate other capacity of flasks.
- (b) Automatic Voltage Stabilizer 4.0KVA.

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ALPHA HEPA (ABSOLUTE) FILTER

Efficiency	:	99.97%
Initial Pressure Drop	:	25 mm (WG)
Nominal Rating	:	0.3 Micron
Media	:	Glass Filbre
Test Method	:	As per Fed. 209D (Particle Counter)
Construction	:	Made of anodised aluminium with 100% submicronic glass media formed into accordion pleats separated by aluminium separators and sealed with suitable adhesive
Servicing	:	Hepa Filters are non-washable filter
Application	:	For creating highly clean environment, even better than CLASS 100, ALPHA Hepa Filters are extensively used in :
(I) Industries	:	Electronics, Pharmaceutical, Precision Assembly, Mechanical, Optic, Photo-film, Computer, Textile, Beverages, Atomic, Biotech and Aeronautical field.
(II) Laboratories	:	Analytical laboratory, Botanical and Biological laboratories
(III) Research Institute	:	Space and Research, Educational Institute, Atomic Research Institute.
(IV) Public	:	Hospital and Operation Theaters.
(V) Flow	:	24" x 24" x 11.7" Or 12" = 1000 C.F.M.

Manufactured By : SUDARSHAN CHEMICALS India 324007 0744-2362345, 09414188018

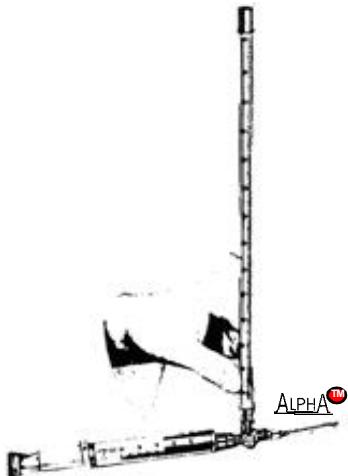
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With first prize awarded at Haroti Udyog Mela year 2003

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"ALPHA" Direct Venous Pressure Apparatus Complete

An accurate instrument for determining the Trend of venous pressure, knowledge of which Is an important aid in diagnosis and prognosis Of cardiovascular disease and in controlling Medication and treatment. Consisting of two glass manometer lubes Graduated to a total of 60cm. Or 600 mm.

The lower tube (3-30cm) has a LUER-LOK connection to prevent it from being accidentally disconnected. A metal slip connection attaches the upper extension tube (33-60cm.) to the lower.

Outfit also includes a short bevel 18G 2? and 22G 1 ?? needle a three-way stopcock, and a metal sterilization tray.

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ASE-2037 PERIMETER (Lister Type) :

Automatically records field to 90 degree in all meridians. The Carrier mechanism is smooth, silent and invisible. The patient perceives only the test object to move. Spring Check, giving an audible click to each 15 degree of rotation of the arc in either direction Renders close scrutiny of dial plate unnecessary , and ensures accurate registration. The device can be thrown out of action if silent movement is desired.

Arc perimeter. Rotating crescent with sliding colour targets. Bulb holder with directional shade. Adjustable double chin rest. Round chart holder (broken off). Integrally mounted case of white, green and red colour targets.

The marker a needle is housed in a retractable tube, sprung to sheath the when not actually marking. A set of interchangeable and permanent washable test object is included with the instrument. The objects subtend angles of 4 degree, 2 degree , 1 degree, 1/2 degree and are in white , green and red blue objects in the last three sizes are also included. Supplies complete with Transformer to work on 220 Volt A/c mains With 100 charts.

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ASE-2036 PERIMETER (Smith Type): ALPHA™

The apparatus comprise of a calibrates arc.
Revolving chart holder.
The object carrier which moves over the arc.
Contains five colors and five apertures of different diameter.
Calibrated scale.
At the back of the are arrangement is proved for fixing of chart which has concentric circles corresponding to the degree of arc.
Adjustable chin rest.
All fitted over a study base with receptacle for keeping charts.
Table top use.
Complete with 500.

ASE-2037 PERIMETER (Lister Type): ALPHA™

Automatically records field to 90 degree in all meridians. The Carrier mechanism is smooth, silent and invisible. The patient perceives only the test object to move. Spring Check, giving an audible click to each 15 degree of rotation of the arc in either direction Renders close scrutiny of dial plate unnecessary , and ensures accurate registration. The device can be thrown out of action if silent movement is desired.

Arc perimeter. Rotating crescent with sliding color targets. Bulb holder with directional shade. Adjustable double chin rest. Round chart holder (broken off). Integrally mounted case of white, green and red color targets.

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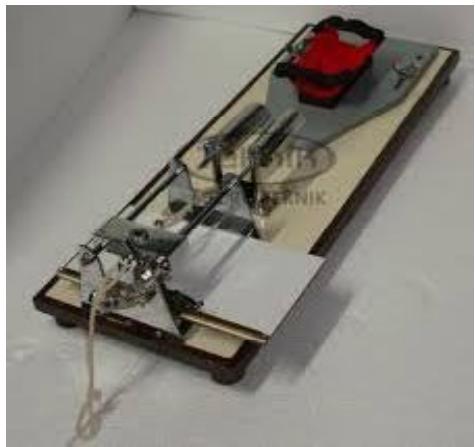
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ASE-201E Erogograph Mosse's

For recording work done by a finger on to the drum surface. With arm fixation rests, finger holders, finger straps, recording lever for drum, pulleys & a set of 5 kgs slotted weights.

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ASE-7301-24 DIGITAL REACTION TIME APPARATUS

Apparatus to perform a wide range of tests including reaction time, choice reaction time, reaction/movement time, tapping tests etc. · It have state-of-the-art touch sensitive keypads for ultra-accurate reaction time · System have Reaction/Movement Time Panel. Control Unit for Psychomotor Devices · It have Psychomotor Experiment Software, Single Touch Key with Stimulus, Foot Switch and Push Button Remote.

Low Tone should be 200Hz High Tone be 1kHz · Tone Volume be 75-85 dB max · Headphone should be 90-105 dB max depending on style · Stimulus be 9 tri-colour lights, high or low tone · Keys should be Touch sensitive with dual accuracy zones · Cue be Tri-colour light, high or low tone · Cue Time be Fixed, random or none · Cue Time Range should be 0-25.5 seconds, 0.1 second resolution · Response Timeout should be 0-25.5 seconds, 0.1 second resolution · Tapping Duration be 0-120 seconds, 1.0 second resolution · Timing Resolution should be 0.001 seconds +/- 0.005%

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ASE-7301 ELEVATED PLUS MAZE FOR RATS/MICE

This Elevated Plus-Maze a sturdy apparatus
Made of wood /stainless steel.
It have an elevated 4 arm maze in which 2 arms are open and 2 are closed with glass opening on top. (H×L×W : 40-45 cm×50-60 cm×10-12 cm) · It have closed arm walls are held solidly in slotted base Grey non reflective base plate ,Grey Walls Height: 500 mm Transparent Walls Height: 100 mm
It have a complete system to track time spent and distance travelled, speed and resting time in each zone

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Rectal Thermometer

1. It has be latex free Rectal stick thermometer with large LCD screen display. Rectal stick is been covered with disposable rectal sheath. It have provided with 100 disposable rectal sheaths with each unit. It have quick 30 seconds read time. 6. Should be reusable Temperature range 90.0-109.9 F / 32.0-42.9 C Standards



2. Height Stadiometer

1. Capacity : 150 Kg ,Graduation: 100g, Tare, auto hold, body mass index functions, Automatic zero setting, Operable on mains and rechargeable batteries , Stadiometer (with head rod) attached to weighing scale ,Remote display ,Measuring range: 60-180cm, Graduation: 1mm, Weight measurement time <5 sceonds CE approval certification Standards ISO certification



3. Torch with 2 Batteries (1.6V) ISI mark

LED light with extra bulb Replaceable battery



4. Torch with 3 Batteries (1.6V) ISI mark

LED light with extra bulb Replaceable battery



5. Inch Tape

Vinyl - coated, 1.5m. Vinyl - coated fibreglass measuring tape Metal tip finishing at both ends Reads both in cm and inch Length, 1.5 m / 5 ft Minimal graduation: 0.5 cm / 0.2 inch Width, approx: 1.3 cm Thickness, appox: 0.36 mm Device is produced by ISO certified manufacturer



6. Instrument Drum (small)

Dressing Drum Small, 22 x 20 Circular, Hinged Lid with Hasp, Catch and Sliding Shutter, st/st, Internal Diameter 22 x 20cm depth. Standards ISO certification



7. Instrument Drum (medium)

Dressing Drum Medium, 22 x 22 Circular, Hinged Lid with Hasp, Catch and Sliding Shutter, st/st, Internal Diameter 22 x 14cm depth.

Standards ISO certification

8. Instrument Drum (large)

Dressing Drum Big Dressing Drum Large, 30 x 27cm Circular, Hinged Lid with Hasp, Catch and Sliding Shutter, st/st, Internal Diameter 30 x 27cm depth.

Standards ISO certification



9. Digital Sliding Vernier caliper

Digital LCD Display, With Screw Stop, Thumb Grip, Thumb Dial, and Extra 1.5V Button Cell Battery Measures Metric: 0-150 mm and in Inches: 1-6 in, Converts Between the Two Decimal and Fractional Inches, Converts Between The Two Hardened Stainless Steel, Shaft Measurement Prot Resolution: 0.01mm, 0.0005", 1/64" Accuracy: +/- 0.03mm, 0.001"



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1. Height Stadiometer

1. Capacity : 150 Kg ,Graduation: 100g, Tare, auto hold, body mass index functions, Automatic zero setting, Operable on mains and rechargeable batteries , Stadiometer (with head rod) attached to weighing scale ,Remote display ,Measuring range: 60-180cm, Graduation: 1mm, Weight measurement time <5 sceonds CE approval certification Standards ISO certification



2. Torch with 2 Batteries (1.6V) ISI mark

LED light with extra bulb Replaceable battery



3. Torch with 3 Batteries (1.6V) ISI mark

LED light with extra bulb Replaceable battery



4. Inch Tape Vinyl - coated, 1.5m. Vinyl - coated fibreglass measuring tape

Metal tip finishing at both endsReads both in cm and inch Length, 1.5 m / 5 ftMinimal graduation: 0.5 cm / 0.2 inch Width, approx: 1.3 cm Thickness, appox: 0.36 mm Device is produced by ISO certified manufacturer



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6. Instrument Drum (medium)

Dressing Drum Medium, 22 x22 Circular, Hinged Lid with Hasp, Catch and Sliding Shutter, st/st, Internal Diameter 22 x 14cm depth.

Standards ISO certification



7. Instrument Drum (large)

Dressing Drum Big Dressing Drum Large, 30 x27cm Circular, Hinged Lid with Hasp, Catch and Sliding Shutter, st/st, Internal Diameter 30 x 27cm depth.

Standards ISO certification



8. Stainless Steel Trays

SC292 450x300x50 in mm (18"x12"x2") Superior Quality, 0.4 mm



9. Digital Sliding Vernier caliper

Digital LCD Display, With Screw Stop, Thumb Grip, Thumb Dial, and Extra 1.5V Button Cell Battery/Measures Metric: 0-150 mm and in Inches: 1-6 in, Converts Between the Two Decimal and Fractional Inches, Converts Between The Two Hardened Stainless Steel, Shaft Measurement Prot Resolution: 0.01mm,0.0005", 1/64" Accuracy: +/- 0.03mm, 0.001"



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Ambu Bag Ambu bag must be autoclaveable Bag made of silicon, latex free double layered rubber which retains sensitivity and resistant to rough use. Inlet end of bag have separate port for oxygen supplement. Outer port should be such that re-breathing valve or non return valve can be attached. Should be supplied with oxygen reservoir bag and deliver tidal volumes of 250/ 500/750/1000 ml. Warranty for 1 Year Complete set should be quoted Standards ISO certification

Digital Weighing Machine

Digital Scale LCD/LED Display 0-180kgs, Increment of 100 Grams (0.1kg)
Lithium Batteries Fiber/Plastic top Auto on & off Overload & Low Voltage
Indicator Auto zero It have ISO certification approved.

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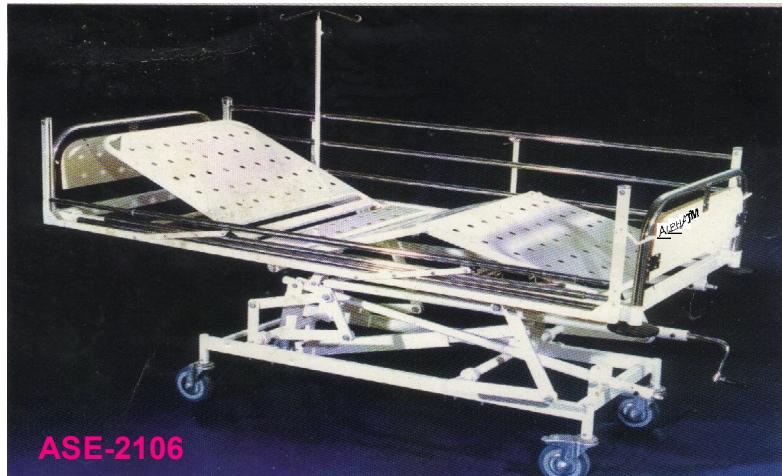
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ALPHA[®]

ALPHA Bed Intensive Care Unit ASE-2106

Mechanically operated , Complete with height adjustablebed operated by roating handles at the foot end of the bed, upper leg & lower leg section and trendelenburg on four separate crank systems ICCU/ICU Bed.

Uniformly perforated four sectioned CRCA sheet top. Trolley type base and main frame made of strong CR, ERW Rectangular steel tubes mounted on four 125mm Swivel Castors, two with brake, SS. Lever handles on foot end to obtain various positions by smooth Crank mechanism. Detachable head & foot S.S. Bows with laminated panels Provided with detachable-full length-collapsible safety side rails, S.S. telescopic I.V. Rod, four revolving corner buffers. Covered with good quality rexine and thease four sections are suitably stitched together.

- i} Minium Height Adjustment 480-490mm. (without mattress) & maximum Height 700-720 mm (without mattress)
- ii} Locations for Neck & foot traction Assemblies
- III} Locations for mosquito net poles
- iv} Collapsible railing with S.S. tube (pair)

VI) Four section PU foam mattress made out of Polyurethane 100mm X 40 density
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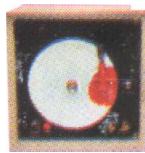
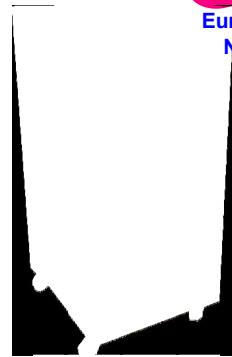


Chart Recorder.



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ASE-117

ASE-117 Blood Bank Refrigerator ALPHA[®]

For conserving whole blood and storing it under constant temperature conditions, it is the most versatile unit for blood banks. Mounted on a sturdy angle frame with double wall, inner chamber is made up of stainless steel and outer of CRCA Sheet duly Powder Coated or Complete Stainless Steel as per customer demand. 80 mm PUF Insulations filled between inner and outer chambers to minimize thermal loss.

The unit is provided with a face lifting door with lock and key & Full view heated 100mm polyurethane insulation with glass door with magnetic gasket. Automatic front door closing below a door opening angle of 90°. Internal Light: Provide at the rear of the cabinet. Forced centrifugal air draft Humidity control system for maintaining positive air flow for constant temperature throughout the chamber uniformity of ± 1°C .Condenser Evaporator: for automatic evaporation of the condensate, this collects in a tray, provident at the rear of the cabinet. 2 Temperature senor: 1 NTC (negative temperature control) sensor, for temperature monitoring shown on front display. 1 NTC (negative temperature control) sensor, for managing, user of compressor. Ideal compressor running time of 27% to 25°C ambient temperature.

The temperature is maintained within 2°C to 6°C with a accuracy. ± 0.1°C. unique airflow system., for storing blood bottles or blood bags. Temperature is controlled by Microprocessor digital Indicator-cum-Controller and triggers the Auto Visual Alarm in the event of fluctuations exceeding permitted tolerance With Low & High Alarm System. 4 hours battery backup for temperature/ power alarm. Sensor: Digital temperature sensor dipped in liquid medium to match the temp. of blood. Independent safety thermostat to avoid negative temperature. Internal temperature hold over time in case of power failure at least 1.5 hours.Unit is also fitted with door operated alarm and power supply failure alarm, as a safety device. Stainless Steel Drawers are provided for holding bags/ bottles. Drainage for safety of whole unit. Fitted with ISI marked Kirlsokar/SHRIRAM make compressor CFC free and has cooling coils running thought the chamber for temperature uniformity with Auto defrost. Built-in temperature recorder having single pen to record seven days temperature -10°C to + 20°C. Whole construction is rat preventive. Complete with 3 KVA Voltage Stabilizer & Caster wheels are provided for easily mobility. To work on 220/230 volts A.C. Supply. **Other changes will be done on request or as per user specification. Blood Bank is Guaranteed for 2 year with free service if required.**

Additional features:

Standby Compressor with digital controller arrangement system if main system failures.

Available in following capacities

- | | | |
|-------------|------------------|---|
| (a) 50-60 | Blood Bags 450ml | Trays: 3 to 4 Sliding trays (Stainless Steel) |
| (b) 100-110 | Blood Bags 450ml | Trays: 3 to 4 Sliding trays (Stainless Steel) |
| (c) 140-150 | Blood Bags 450ml | Trays: 3 to 4 Sliding trays (Stainless Steel) |
| (d) 200-250 | Blood Bags 450ml | Trays: 4 to 6 Sliding trays (Stainless Steel) |
| (e) 300-400 | Blood Bags 450ml | Trays: 5 to 7 Sliding trays (Stainless Steel) |

OPTIONAL ACCESSORIES

- (a) Chart Type Temperature Recorder.
- (b) Temperature Recorder thermal Paper / Digital printing System.
- (c) Servo controlled voltage Stabilizer

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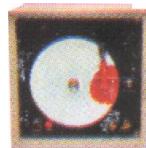


Chart Recorder.

ASE-117

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Additional features:

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Available in following capacities

- | | | |
|-------------|------------------|---|
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| (b) 100-110 | Blood Bags 450ml | Trays: 3 to 4 Sliding Drawers(Stainless Steel) |
| (c) 140-150 | Blood Bags 450ml | Trays: 3 to 4 Sliding Drawers(Stainless Steel) |
| (d) 190-250 | Blood Bags 450ml | Trays: 4 to 5 Sliding Drawers(Stainless Steel) |
| (e) 300-400 | Blood Bags 450ml | Trays: 5 to 7 Sliding Drawers(Stainless Steel) |

OPTIONAL ACCESSORIES

- (a) Chart Type Temperature Recorder.
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**ASE - 1009 ALPHA Urin analyzer
(Automated Urin Strip Analyzer)**

ALPHA Make ISO 9001 : 2000 WHO : GMP Certified

**,Automatically evalute urin test strip at the speed of
test strip or more / minute. Compuerized system for
memory storage, keyboard for patient's data input
transfer to PC/Host computer with in-built thermal
printer. Liquid crystal display (LCD) , 2 lines of 24
characters, Warranty for 2 years.**

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ASE : 1025 DI Electric Tube Sealer :

ALPHA Make ISO 9001:2000 WHO : GMP Certified , Easy separation of tube segment after sealing. No warm up time , no hemolysis and produce hermetic seal. Sealing Time 1.5 Second. Tubing Diameter 6 mm . Made of Aluminum Alloy casting material duly polished. Having Electrical safety standards.Sealer equipped with sophisticated sensing system . Complete with Fully Automated portable, Continuous operation. It is suitable for Bench Top Use.Sealer has intelligent sensing system for better sealing.

Weight 5.7 kg approx. MOSFET based International technology on Radio Frequency; output: 15 W & Operating Frequency 40.68 MHz crystal controlled electrical safety – internal power supply.

Dimension 300 (L) x 175 (W) x 150 (H)

Operation Temperature 0 – 40°C (32 to 104 °F)

Power Supply 220 - 240 Volts, Single Phase 50HZ Or
 110 - 115 Volts, Single Phase 60HZ

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ASE-218



ASE-186



ASE-187

ASE-218 ULTRA VIOLET LAMP (BOX TYPE) ALPHATM

for ultra violet visulisation of floorescent materials. U. V. cabinet with short wave (254nm) long wave (365nm) wave natural daylight tube in complete 4mm thickness black acrylic body for viewing and detecting separated substances on T.L.C. layers & outer body should be M. S powder coated. Sample can be placed on the tray by opening the windows. Suitable for paper chromatography and gradation Oil U.V. radiation range of 3200-4000 A.U. Operating voltage 230 volts A.C.

ASE-186 TISSUE HOMOGENIZER ALPHATM

Tissue homogenizer for homogenization of samples(frozen and normal) be hand held and mountable on stand processing range shall be 200 μ l to 100ml. It include choice of 5mm, 7mm or 10mm. Stainless steel speed control range of 5000-35000 rpm be light weight and low noise level be CE / FDA approved. TO work on 220/230 Volts A.C. Supply.

ASE-187 TISSUE HOMOGENIZER (HAND OPERATED OF 6" AND 12" ALPHATM)

Used for tissue homogenization of organs from small animals It should be either hand held or stand mount with all standard accessories Processing range: 1.00 ml to 100 ml

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Hospital Bed Simple with I.V. Stand

Thick performed sheet (18G) mounted on rectangular steel tube. Four locations for saline rod with at least 2 saline rods and special hooks for urine drainage bag and complete with rail guard for mattress head & leg bows made of tubular steel (16G) Provision for bedside railing also should be provided

Size : L 78" W 36" H 32" I.S.O. Certified

Fowler Bed with I.V. Stand

Strong frame of rectangular channel and perforated sheet (18G) fitted in four section Head and foot bows having one horizontal and three vertical support of tube (16G) fitted with 4" dia castors (two with brakes), backrest and knee rest section with crank mechanism by separate screws Four locations for saline rod with at least two saline rods. Special hooks for drainage bag & rail guard for mattress.

Size: L78" W 36" H 24" I.S.O. Certified

Patient Trolley

Tubular Steel (16G) construction with cross support mounted on heavy duty 6" to 8" dia castors on ball bearings, removable stretcher top made of iron sheet 18G with handles

Emergency Cart Crash Cart Trolley

S.S. frame made of polystyrene storage units with (minium two) drawers each lockable and at least five-colored removable bif Complete with corner buffer, oxygen cylinder holder electric lamp and cardiac massage board, S.S. Shelves Provided with S.S.I.V. Rod Fitted with castors with brakes in some.

Size : L 36: W 20" H 60" I.S.O. Certified

Wheel Chair

I.S.O. Certified

Voltage Stabilizer 4 KV For split A.C. 1.5 Ton

Attendedt banch wooden (सनमाइका टॉप)

लम्बाई 66 इंच

ऊँचाई 18 इंच

चौडाई 21 इंच

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The Supritendent,
Rajasthan Medicare Relief Society
Kota.

The Supritendent,
Rajasthan Medicare Relief Society
Jaipur.

The Supritendent,
Rajasthan Medicare Relief Society
Udaipur.

The Supritendent,
Rajasthan Medicare Relief Society
Jodhpur.

The Principal,
Medical College,
Kota.

The Principal,
Medical College,
Jaipur.

The Principal,
Medical College,
Udaipur.

The Principal,
Medical College,
Jodhpur.

The Principal,
Mahatama Gandhi Medical College,
Jaipur.

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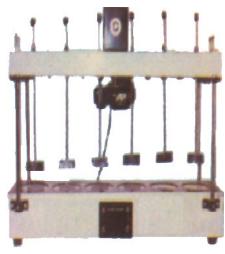
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ASE-121

ASE-121 Flocculator (Jar Testing Apparatus)TM

Flocculator has been specially designed for use in water treatment plants as Jar Testing Apparatus to estimate the dosing of alum and such other coagulants for treatments of water and sewage. It provides identical test condition for all samples. It is suitable for continuous run in any busy laboratory.

Illuminator base consists of general continuous run heavy duty 1/20 HP, variable speed motor from 10 to 100 RPM with built in speed control. Stainless steel stirring paddles. The stirring shaft can be removed without disturbing other stirrers. It is supplied with either two, four or six stirrers working on 220 volts A.C. This unit is supplied without beakers.

STIRRERS

CAPACITY 1 Lit. CAPACITY 2Lit.

- (a) For Two Stirrers
- (b) For Four Stirrers
- (c) For Six Stirrers

OPTIONAL ACCESSORIES

- (a) Attachment for feeding dose to all stirring units simultaneously. 1550.00

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ASE-2012 B Dx AUTOMATIC TISSUE PROCESSER With Micro-Porocessor Controller

The compact and sturdy instrument designed with latest technology for complete automatic dehydration and filtration of human, animal and plant's tissues fixing in wax. Pre programmable provision for dehydration cycle (user selectable) is a standard feature Glass door with lock and key arrangement provided for easy viewing also prevents unauthorised tampering of timing cycle.

Tissues are subjected to continuous agitation by rotating S.S. tissue basket for thorough penetration of reagents. Provision for automatic thermostat controls S.S. wax bath temperature and maintain it throughout the process.

Supplied complete with one S.S. Basket Rotor, one S.S.Tissue Basket, 24 S.S. Tissue Capsuales, 10 one ltr. capacity Glass Beakers, 11 Beakers Covers, 2 S.S. Wax Baths, each fitted with "EGO" German Thermostat, 5nos. of 24 hours Suitable to work on 220V, single phase, 50HZ, AC supply.

Capacity : 1 Ltr. & 2 Ltr.

Spare Accessories:-

- (a) Automatic wax bath
- (b) Basket Rotor : which rotates the tissues basket slowly.
- (c) Tissue capsule basket : S.S. even perforation
- (d) Tissue capsule S.S. 28 x 28 x 9mm with sliding cover
- (e) Tissue capsule S.S. Circular, 36mm dia with auto press lid.
- (f) Divider for Tissue capsule 's' shape
- (g) Divider for Tissue capsule 'v' shape
- (h) Beaker without lip. Capacity 1 Ltr.
- (i) Timing Disc calibrated for 24 hours.

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ASE-1015



ASE-1016BB

ASE-1015 ULTRA SONIC CLEANER:

With Built-in Generator & solid state Circulatory unique auto tuning feature, 30/40 kHz frequency for effective cleaning & low noise level. Fitted with Deep drawn tanks of SS

Capacity in Ltr	1	2	4	7	10	24
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Optional accessories:

1. Digital Temp. Indicator cum controller
2. Timer 0-2 Hours German Analogue
3. Timer 99.59 Hr./Min. LED display
4. Heater Thermostatically Controlled for Ultra Cleaner
5. Basket for Ultra Sonic cleaner

ASE-1016BB DRY BATH

Bench Top test tube Holder

Temperature range maintained at 37°C

Suitable to work on 220V, single phase, 50HZ, AC supply.

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ASE-1015

ASE-1015 ULTRA SONIC CLEANER:

With Built-in Generator & solid state Circulatory unique auto tuning feature, 30/40 kHz frequency for effective cleaning & now noise level. Fitted with Deep drawn tanks of SS System an ultrasonic cleaner with a digital timer and have continuous ultra-sonic operation Microprocessor - controlled timer with cycle times to 99 minutes; Thermostat with LED readout maintains optimum cleaning temperature of 69°C Automatically reset to last setting for consistent batch-to-batch cleaning Have sleep mode to ensure energy saving feature and have high temp safety alarm indicator for protection from unit overheating. Convenient built-in-tank drain with valve and have chemical resistant plastic/ steel body. Tank size and capacity approx 9-11" x6"x6"; 3-4 Liter and include tank cover Voltage: 220-240 V; It have drain provision.

Optional accessories:

1. Digital Temp. Indicator cum controller
2. Timer 0-2 Hours German Analogue
3. Timer 99.59 Hr./Min. LED display
4. Heater Thermostatically Controlled for Ultra Cleaner
5. Basket for Ultra Sonic cleaner

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ASE- 1155

ASE - 1155 Fortin Barometer **ALPHA[®]**

The column of mercury, within an 8mm bore glass tube, is evacuated of air at the top end, and at the lower end enters a cistern with a reservoir of mercury through a boxwood bush. The cistern has a glass section with a brass top, a brass cylinder and a pliable wash-leather bag. An adjusting screw in the base of the cistern acts upon the wash-leather bag to raise or lower the mercury level to the scale zero. Made from ivory, the scale zero or 'fiducial point', is mounted securely to the top of the cistern. The pressure reading is taken from the machine-engraved scale, using the vernier device. The barometer is presented in a black enamelled frame and supplied with a polished hardwood backboard, for wall or pillar mounting. Behind the zero and pressure scales, opal reflector plates are attached to the backboard to improve contrast.

Other changes can be done on request or as per user specification.

Range	870-1100 mb	870-1100mb	700-1100 mb
Accuracy	±0.3 mb	±0.3 mb	±0.3 mb
Resolution	0.1 mb	0.1 mb	0.1 mb
Weight	6.5 kg	6.0 kg	6.0 kg
Dims.mm	900(H) x 60(W) x 60(D)	1120(H) x100(W) x100(D)	1120(H) x100(W) x100(D)

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ASE-31

ASE-31 HERPENDERS SKIN FOLD CALIPER 

The Harpenden Skinfold Caliper is a precision instrument designed for use in the performance of Skinfold thickness measurements (from which estimates of body fat are derived). The use of this instrument has been well established and documented over the past 40 years.

Designed in 1958 in collaboration with D. J. M. Tanner, a prominent force in the use of Skinfold measurements in the derivation of body fat measurement,

The Harpenden Skinfold Caliper has been used all over the world on projects of international importance and is the most prestigious Caliper available.

It is the only Caliper CE marked under the Medical Devices Directive 93/42/EEC for a Class 1 Device with Measuring Function and is calibrated using masters traceable to National Standards.

Other changes can be done on request or as per user specification.

Dial Graduation	:	0,20 mm
Measuring Range	:	0 mm to 80 mm
Measuring Pressure	:	10 gms/mm ² (constant over range)
Accuracy	:	99.00%
Repeatability	:	0,20 mm

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ASE-35

ASE - 35 Milk Hydrometers ALPHA[®]

Calibrated in grams/ml and adjusted at 20°C.

Designations 1 and 2 are for milk of normal density, 1A and 2A for milk of low density.

Hydrometer	Designation	Rangeg/ml	Subdivision	Length	Product No
No 1	1.025 to 1.035	0.0002	240mm	10/602/0	
No 1A	1.015 to 1.025	0.0002	240mm	10/603/0	
No 2	1.025 to 1.035	0.0005	215mm	10/604/0	
No 2A	1.015 to 1.025	0.0005	215mm	10/605/0	

For trade price & delivery: Please contact us for details.

Other changes can be done on request or as per user specification.

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ASE-38

ASE - 38 Wet Bulb/Dry Bulb Hygrometer ALPHA

This very accurate instrument has two thermometers, one of which has a cloth sock on the bulb which is kept wet from a tube of water (center). The wet bulb temperature will be lower than the dry bulb temperature due to evaporative cooling. Knowing the difference in temperatures, simply consult the chart on the front of the housing to determine relative humidity at the dry bulb temperature. Plastic molded case and glass reservoir. Size 10" x 4"; wall mount. Instructions included. Replacement reservoir tubes also available

Other changes can be done on request or as per user specification.

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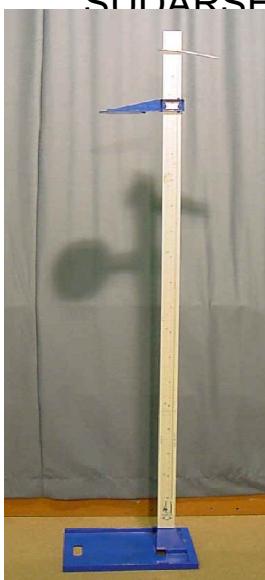
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ASE-3

ASE - Height Measuring Stand

The stadiometer is particularly suitable for mobile use, e.g. for measuring children and teenagers in the course of medical exam stadiometer for mobile use. The stadiometer is particularly suitable for mobile use, e.g. for measuring children and teenagers in the course of medical examinations at schools. The measuring rod which can be dismantled into several pieces is easy to transport and can be set up anywhere in no time at all. A stable floor plate provides the necessary stability and the easy to read scale along both sides of the measuring rod means that the height can be read easily.

It is well-suited for medical examinations at schools and satellite offices of aid organisations.

Other changes can be done on request or as per user specification.

Measuring range	20 - 205 cm
Graduation	1 mm
Packing size :	25.75 x 14.25 x 4.75 inches
Gross Weight :	2.65kg

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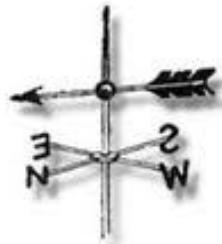
ASE -100H HORROK'S APPRATUS ALPHA[®]

contain 6 white cup of 200 ml capacity each
1 black cup, 2 metal spoons, 7 glass steering
rods, one special pipette, 2 droppers, starch
iodine indicatior



ASE -101 W WIND VANE ALPHA[®]

Range: 0.0-45.0 m/sec. 00 -140.0 Km /
hours, 0-880 feet/min., 0.0 - 88.0 Knots /
hours



ASE -102 C CHLOROSCOPE ALPHA[®]

1 chloroscope is indigenously fabricated
apparatus for measuring quantitative residual
chlorine in drinking water.

2. It is essential to keep the chlorine content
below 1 ppm in the chlorinated water.
3. Higher residual chlorine is harmful to eyes,
throat etc.
4. It is simple and compact unit made of high
compact plastic which can be easily carried to
rural areas and operated by semi skilled per-
sons also.
5. Presentation :-two models.
01 - 1ppm - 4 readings } packed in corrugated
plastic container.
02 - 2ppm - 6 readings} with 2 test tube,a
brush, and 30ml o-tolodine reagent.



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ASE-171



ASE-172



ASE-173

ASE-171 Magnetic Stirrer **ALPHATM**

It has a compact stirring device utilizing a rotating magnetic field (created by a PERMANENT MAGNET) which induces variable speed stirring action. Stirring is accomplished by means of small teflon rotor, which when placed in the liquid to be stirred is capable of rotation by magnetic field applied from below the container. The unit is fitted with pilot lamp. To work on 220/230 Volts A.C. Available with or without Hot Plate (as required). Other changes can be done on request or as per user specification.

CAPACITY WITHOUT HOTPLATE WITH HOTPLATE

1Ltrs

2Ltrs

5Ltrs

10Ltrs

ASE-172 Multi-Magnetic Stirrer **ALPHATM**

It is a compact unit for carrying out multiple tests on a single bench, but having individual control and teflon rotors.

It has a compact stirring device utilizing a rotating magnetic field (created by a PERMANENT MAGNET) which induces variable speed stirring action. Stirring is accomplished by means of small teflon rotor, which when placed in the liquid to be stirred is capable of rotation by magnetic field applied from below the container. The unit is fitted with pilot lamp. To work on 220/230 Volts A.C. Available with and without Hot Plate as required. Other changes can be done on request or as per user specification.

CAPACITY WITHOUT HOTPLATE WITH HOT PLATE

3 Stirrers 2 litres capacity

6 Stirrers 2 litres capacity

ALPHATM

ASE-173 Laboratory Stirrer

The motor-stirrer unit is clamped to a chrome plated rod fitted on a heavy cast iron base. The height and angle of the stirrer can be adjusted according to the requirement. Variable speed Motor with speed regulator is fitted with S.S. Stirring rod to give smooth and noiseless operation. Supplied with or without drill chuck. Other changes can be done on request or as per user specification.

Available in various capacities fitted

CAPACITY WITHOUT DRILL CHUCK WITH DRILL CHUCK

(a) With 1/50 HP Motor.

(b) With 1/20 HP Motor.

(c) With 1/12 HP Motor.

(d) With 1/8 HP Motor.

(e) With 1/4 HP Motor.

(f) With 1/2 HP Motor.

OPTIONAL ACCESSORIES

(a) Automatic 0-60 minutes Timer.

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ASE-101 (B.O.D. Incubator (Low Temperatire) ALPHATM

This is the most versatile low temperature indicator for Biochemical Oxygen Demand determinations. Castor wheel mounted cabinet is double walled with inner chamber of anodised aluminium or stainless steel and outer casing of M.S. Sheet dulywhite stoved enamel painted. The gap of 75 mm. between the outer and the inner wall is filled with blanket super grade glass wool to prevent thermal losses. Triple walled back of the unit is fitted with two air circulation system is provided by a F.H. Motor with a fans for maintaining temperature uniformly throughout the chamber. Heating elements of nicrome wire are placed in the air path and are duly insulated from the body. The inner chamber is ribbed for placement of three shelves at desired heights. Full view inner glass door permits inspection of specimens, without disturbing the same. Lock and key arrangement is provided in the double walled outer door with magnetic gasket. Unit is fitted with door operted illumination lamp isside the chamber. With Automatic Timer (0-24 hours) for regulating cyclic illumination conditions.

The temperature range from 5°C to 60°C± 0.5°C is controlled by two EGO/JUMO German, double action hydraulic capillary thermostat. Refrigeration unit is formed by hermatically seated ISI Marked SHRIRAM make compressor, and the cooling coils are distributed all round the chamber and lie in the air circulation path. An L-shaped prismatic thermometer is provided at the top on the front panel alongwith seperate three indicator lamps for mains, heating and incoming voltage. cabinet is mounted on castor wheels., cord and plug to work on 220/230V A.C. supply. Unit is supplied with 2 K.V voltage stabilizer. Other changes will be done on request or as per user specification..



ASE-101

ASE-102 SUPER AUTOMATIC MODEL ALPHATM

This unit switches from heating to cooling and vice versa irrespective of the ambient temperature and is thus capable of working without any user intervention. Other changes will be done on request or as per user demand.

Available in following sizes.

INSIDE CHAMBER SIZE (WXHxD)	CAPACITY	ALUMINIUM	S.STEEL
(a) 420mm. x 560mm. x 380mm.	3 cu.ft.		
(b) 500mm. x 840mm. x 410mm.	6 cu.ft.		
(c) 570mm. x 875mm. x 550mm.	10 cu.ft.		
(d) 620mm. x 1020mm. x 520mm.	12 cu.ft.		
(e) 700mm. x 900mm. x 650mm.	15 cu.ft.		
(f) 775mm. x 900mm. x 775mm.	20 cu.ft.		

ASE-103 SUPER DELUXE AUTOMATIC (DIGITAL MODEL) ALPHATM

Fitted with Electronic Digital Indicator-cum-Controller for Heating & Cooling. Castor wheel mounted cabinet is double walled with inner chamber of anodised aluminium or stainless steel and outer casing of M.S. Sheet duly powder coated. between the outer and the inner wall is filled with blanket super grade glass wool to prevent thermal losses.(Pull view inner glass door) Temperature range 5°-50°C. Temperature accuracy +2°C.CFC free compressor of "KIRLOSKER".Air circulating fan for uniform temperature.Unit is supplied with voltage stabilizer. Lock and key arrangement.Safe and user friendly. Other specification as per cat. No.ASE-101.Other changes will be done on request or as per user demand.



ASE-102-103

Available in following sizes.

INSIDE CHAMBER SIZE (WXHxD)	CAPACITY	ALUMINIUM	S.STEEL
(a) 420mm. x 560mm. x 380mm.	3 cu.ft.		
(b) 500mm. x 840mm. x 410mm.	6 cu.ft.		
(c) 570mm. x 875mm. x 550mm.	10 cu.ft.		
(d) 620mm. x 1020mm. x 520mm.	12 cu.ft.		

OPTIONAL ACCESSORIES

- (a) Interior illumination with 3 Nos. flourescent tubes of 60cm, length
(Note when the tubes are 'ON' temperature can be obtained from 10°C to 50°C)
- (b) Automatic Timer (0-24 hours) for regulating cyclic illumination conditions.
- (c) Arrangement for incubation of CO₂/Air mixture.
- (d) Air Compressor for use with above.
- (f) Shaking machine to be fitted inside the chamber.
- (g) Humidity from 55% to 95% is controlled by Humidistat. Humidity is created by latest MOTORISED HUMIDIFIER SYSTEM using SPLASH PLATE technology or day and night.
- (h) Dual setting Digital Temperature Controller for setting two different temperature for day and night.
- (i) Electronic Digital Temperature & Humidity Indicator-cum-Controller.
- (j) Exterior illumination system with two tube lights on both sides.
- (k) Automatic Voltage Stablizer 3 KVA.
- (l) Chart Type Temperature Recorder.
- (m) Carbondioxide Cylinder

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ASE-111



ASE-113

ASE-111 Refrigerated Water Bath (Low Temperature)

Mounted on a sturdy angle iron frame the inner chamber is made of thick stainless steel and outer of mild steel duly enamel painted. The cooling coils are soldered to the outer side of the inner S.S.304 sheet. Chamber in order to achieve perfect cooling effect. The gap between the inner and outer wall is fitted with high grade glass wool in order to prevent any loss of temperature. Fitted with ISI market SHIRIRAM made compressor for effective cooling. Heating id brought about by immersion heating elements. Temperature range from -10°C to 100°C is controlled by mercury contact thermometer with an accuracy of + 0.02°C. A high speed stirrer is fitted to maintain temperature uniformity. The lid of the bath id insulated double walled, fixed with hinges and is provided with locking arrangement. Inner Chamber. *Other changes can be done on request or as per user specification.*

Size : 500x250x250mm.

OPTIONAL ACCESSORIES

- (a) F.H.P. pump for circulating the cooled liquid to external source e.g. in the condenser coil of soxhlet Apparatus etc.
- (b) Digital Temperature indicator-cum-Controller.
- (c) Automatic Voltage Stabilizer 3.0 KVA.

ASE-113 Orbital Shaking Incubator / Water Bath

Most useful for growing cultures of micro-organisms and tissue cells under controlled conditions of temperature and agitation. The platform containing samples is set into the circular motion in a horizontal plane, which ensures uniform mixing, minimises accretion of material on the sides of the flasks and provides good transfer of gas to the culture and avoids undue buffering of the organisms and cells.

The outer chamber is made up of M.S. Sheet duly painted and inner chamber glass wool to avoid thermal loss. The lid of chest type unit is fitted with fluorescent range from 5°C to 60°C + 1°C. When the tube lights are ON temperature range is from 10°C to 50°C. Air Circulation fan is fitted to maintain temperature uniformity throught. Cyclic illumination conditions are controlled by an automatic timer (0-24 hrs.) fitted to the unit. Hermetically sealed compressor is fitted to the unit for efficient cooling. To work on 220/230 volts A.C. Supply. The shaker has variable speed and a platform containing 16 flasks of 500ml capacity is supplied with the unit as standard accessory. *Other changes can be done on request or as per user specification.*

OPTIONAL ACCESSORIES

- (a) Spare shaking platform to accomodate other capacity of flasks.
- (b) Automatic Voltage Stabilizer 4.0KVA.

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FOWLER BED

SC - 220

BED STEAD FOUR SECTION

FRAME WORK OF STRONG & PRECISE STEEL TUBES MOUNTED ON 10CMS TO 12.5CMS DIA SWIVELING CASTORS. HAVING FOUR SECTION TOP OF PERFORATED CRCA SHEET DULY MACHINE PRESS BENT. BACKREST AND KNEE-REST SECTION MANEUVERED BY TWO SEPARATE SCREWS. TABULAR HEAD PROVISION FOR FOUR SALINE SIZE: 200 TO 210 (L) x 80 TO 90 (W) x 60 TO 70 (H) CMS

FINISH: PREHEATED AND EPOXY POWDER COATED.

THICKNESS OF SHEET 18G.

TUBLER HEAD OF MS 16G. & 1.25INCH Dia.

OTHER CHANGES CAN BE DONE ON REQUEST
OR AS PER USER SPECIFICATION.



FOWLER BED

SC - 216

BED STEAD FOUR SECTION (DELUX)

BED STEAD, FOUR SECTIONS

OVERALL SIZE 78" X 36" X 24"

PERFORATED SHEET TOP.

ADJUSTABLE BACKREST & LEG SECTION BY MEANS OF
TWO INDEPENDENT CRANKS

FOUR CORNER RUBBER BUFFER

STAINLESS STEEL I.V. ROD WITH FOUR LOCATION

REMOVABLE STAINLESS STEEL TUBULAR HEAD & FOOT
BOWS WITH LAMINATED PANELS

SPECIAL HOOKS FOR URINE DRAINAGE BAG AND RAIL
GUARD FOR MATTRESS.

100MM FOUR SWIVELLING CASTORS 2 WITH BRAKES
EPOXY POWDER COATED FINISHED

OTHER CHANGES CAN BE DONE ON REQUEST
OR AS PER USER SPECIFICATION.

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DPH-115PM **ALPHATM** Digital pH-Meter with Standard accessories

Model	:	"DPH-115PM", Bench Top Model Agronomic design having controls and settings on front panel, international BNC connector for electrode on the black panel. Solid State VDR circuit design.	
Electronics	:	pH Mode	mV Mode
Range	:	0.00 to 14.00	0 to 1999
Resolution	:	+ 0.01 pH	+ 1mV
Accuracy	:	+0.01 pH +1digit	1mV +1 digit
Repeatability	:	+0.01pH	+1mV
Input Impedance	:	>10 ¹⁴ Ohms	
Temp. Compensation	:	0 to 100°C Manual	
Ambient Temperature	:	0° to 40° C , 40° C at 95% RH	
Display	:	3.5 digit Red LED, 0.56" Height	
Polarity Display	:	Automatic	
Stability	:	0.01 pH drift in 24 Hours after a warm up of 10 min.	
Mains	:	230 volts + 10%, 50 Hz.	
Dimensions	:	(244*64*170) mm	
Weight	:	1.5 kg (approx.)	
Stop control	:	80 to 120%	
Sensor	:	PH Electrode	
Equipment supplied with rechargeable battery with a battery charger.			
Type & Details of battery clearly indicated e.g. V, AH number etc.			
A suitable battery charger will be supplied so that charging batteries continue when the equipment on main,with suitable case.			
Accessories	:	* Combination glass pH Electrode. * Electrode stand with adj. moulded holders * Operational- cum - service manual * Dust cover * Buffer bottles * Buffer powder for calibration * Mains cord * Warranty card	

Manufactured By : SUDARSHAN CHEMICALS India 324007 0744-2362345, 09414188018

CE, ISO 9001:2015, WHO, FDA & ISO-13485 CERTIFIED
With first prize awarded at Haroti Udyog Mela year 2003

ISO 9001-2015, WHO, FDA,
European CE Nortified &
ISO-13485 Certified



ALPHA[®]
SUDARSHAN

CE
European CE
Nortified



ASE-116

ASE-116 MORTUARY CHAMBER *ALPHA[®]*

Used for storing cadaverous under low temperature cool conditions in order to prevent decomposition. Most Useful for Hospitals, Airports, Railways etc. These units are double walled with outer & inner made of Stainless Steel Sheets. The gap between inner and outer chamber is filled with Puff 80-100 mm to avoid thermal loss. Air circulation by forced Air circulation. The front face lifting hinged door is lined with magnetic gasket and it fitted with lock and key. Stainless Steel trays with telescopic Mechanism to carry dead bodies are provided with handles so as the carry dead bodies. Drainages system given to wash the unit inside the chamber. Trays travel on rollers fitted for easy movement. Exterior surface anti rust coated duly finished. CFC free Hermetically sealed heavy duty compressor serves refrigeration unit outside the chambers. Condenser is Efficient with Auto condensate evaporating system, Temperature range of 0-2°C to 4°C & -20°C to 5°C. Unit is fitted with Digital Temperature Indicator-cum-Controller with Audio-Visual Alarms to warn High and Low Temperatures. The unit is Supplied complete with trays, cord and plug, to work on 220/230 volts A.C Supply. Supply with Voltage Stabilizer.

Additional features:

Standby Arrangement system if main system failures.

CAPACITY	0-2° to 4 °C -20 to 5 C
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- (a) Single human body,
- (b) Two human bodies
- (c) Three human bodies
- (d) Four human bodies
- (e) Six human bodies.

OPTIONAL ACCESSORIES

Temperature Recorder, Data Logger, Voltage safety system, Alarm System for various parameters battery backup rechargeable.

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ASE-151 Hot Air Oven Universal (Memmert Type) ALPHA[®]

These are sturdy double walled units with outer chamber made of M.S Sheet powder coated inner chamber made of stainless steel sheet 304 grade. The gap between inner and outer chamber is filled with high grade Mineral glass wool to avoid thermal losses. Beaded heating elements are made of high grade Imported Nicrome wire are placed in ribs, at bottom and both sides. Dry heat to sterilize articles at 100° C for 30 minutes. Over temperature cut out electronically above set temperature to ensure operational safety. Inner chamber is provided with ribs for adjusting perforated Stainless Steel shelves to convenient height. 2 Air ventilators are also provided on the sides of the unit. To work on 220/230 volts A.C. supply. Fitted with load indicator and safety thermostat take over indicator lamp, temp, LCD/LED indicator. All the control switches & pilot lamps are fitted on the front panel. Door gasket fixed on the double walled door for proper sealing.

Fitted with heavy hinges with a ball catcher, spring loaded door closing device. Door is duly insulated. All units are fitted with Forced Air Circulation fan as a standard feature. Complete with long wire & three pin socket. Other changes like Microprocessor Based Digital Controller Temperature Indicator-cum-controller & PT-100 sensors with an accuracy of $\pm 1^{\circ}\text{C}$ from ambient to $250^{\circ}\text{C} \pm 1^{\circ}\text{C}$. with thermostat control knob and indicators for mains and thermostat can be installed on requirement. Complete with manual.

Other changes will be done on request or as per user specification.

Available in following sizes :

INNER CHAMBER SIZE (W x D x H) TRAYS

(a)	300x300x300mm.	2
(b)	355x355x355mm.	2
(c)	455x455x455mm.	2
(d)	455x455x605mm.	3
(e)	400x400x800mm	3
(f)	605x605x605mm.	3
(g)	605x455x910mm.	3
(g)	605x605x910mm.	4

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ASE-148

ASE-148 Muffle Furnace Rectangular ALPHA

Double Walled with double insulation for minimum heat leakage & faster temp. System is ideal use for baking glass wares or any other material, organic and inorganic samples. Light weight with ceramic fibre wool insulation (instead of Brick Insulation). Heating from two sides by ceramic heating plates to avoid fumes and splashing. Furnace chamber made of textured stainless steel with multilayer ceramic insulation with fiber plates. Dual shell to have low external temperature. A high quality ceramic insulation between ceramic chamber and outer body. Heating elements are made of KANTHAL "A-1" wire and inside chamber is made of GROOVED REFRACTORY for supporting the heating elements on four sides and backed by high temperature cerwool insulation, which avoids loss of energy. Microprocessor controlled for maintaining temperature, include device for auto cut-off with time set option and alarm signals, fitted in front of furnace with two pilot lamps. It provision of exhaust outlet in rear wall. Low noise operation, The apparatus is complete with power plug. Include chimney with fan and installed at the site. Include heat-resistant gloves to work at higher temperature beyond 500 °C. To work in 220.230 volts single phase A.C. Opening door flap type as working platform. The unit has a working temperature of 100°C with maximum upto 1100°C. and working temp 1100°C Complete with long wire & three pin socket. Chamber capacity approx. 14-15 Litre. With compatible stabilizer. **Other changes can be done on request or as per user specification.**

OPTIONAL ACCESSORIES

- (a) Solid State Electronic Blind Controller in lieu of Energy Regulator.
- (b) Digital Temperature Indicator-cum-Controller.
- (c) Dilution Process System.
- (d) Cyclone Process System.
- (e) Cyclone cum Scrubbing unit.
- (f) Scrubing unit.
- (g) Chimney (per running feet) (Does not include any masonry or civil work and foundation laying etc.

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ASE- RECTANGULAR/ROUND SPECIMEN JARS WITH LID

Transparent Hard Glass

Catalogue	Ht x Lx B cm Apporx
ASE-210R	37.5 x 10 CM.
ASE-211R	30 x 30 CM
ASE-212R	30.5 x 30 CM
ASE-213	20 x 12.5 x 12.5 CM.
ASE-214	20 x 19.5 x 8 CM.
ASE-215	22 x 15 x 10 CM.
ASE-216	25 x 25 x 12.5 CM.
ASE-217	25 x 16.5 x 14 CM.
ASE-218	25 x 25 x 25 CM.
ASE-219	30 x 15 x 12 CM
ASE-220	30 x 17 x 9 CM
ASE-221	36 x 15 x 10 CM.

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