

MaxQ 2000 CO₂ Plus

Digital CO₂ Resistant Shaker

Catalog # 88881101B, 88881102B, 88881103B, 88881104B

Operation Manual 0000847

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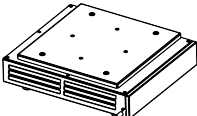




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Section 1 Unpacking and Installation

1. Inspect contents upon receipt of the instrument, if the instrument is upside down, contact the manufacturer immediately.
2. Check packing list below. If there are any damaged or missing items, contact the manufacturer.
3. Place the instrument on a level and firm surface, to avoid vibration and noise.





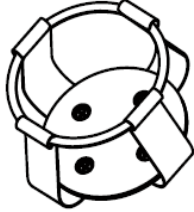

Table 1-1. Packing List

Thermo Scientific Cat. No.	88881101B	88881102B	88881103B	88881104B	Picture
Model name on carton box label	MaxQ 2000 CO2 Plus, 100-240V, for USA	MaxQ 2000 CO2 Plus, 100-240V, various plugs	MaxQ 2000 CO2 Plus Package, includes 88881101B Shaker, Universal Platform and Flask Clamp Starter Kit	MaxQ 2000 CO2 Plus Package, includes 88881102B Shaker, Universal Platform and Flask Clamp Starter Kit	
Main Body	1	1	1	1	
Control Box	1	1	1	1	
General Power Adaptor	1	1	1	1	
US Plug	1	N/A	1	N/A	
CN Plug	N/A	1	N/A	1	

Section 1

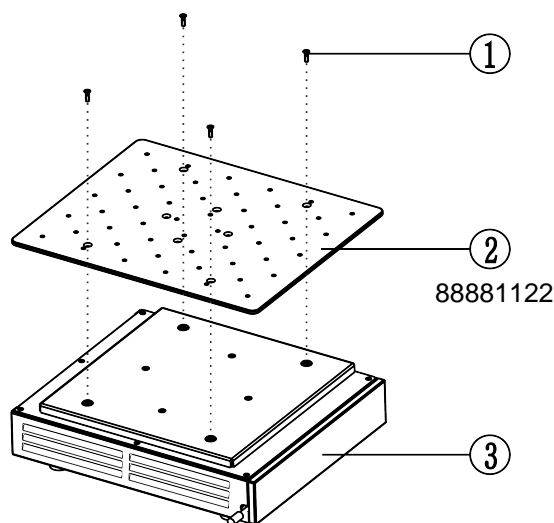
Unpacking and Installation

Table 1-1. Packing List (Continued)

Thermo Scientific Cat. No.	88881101B	88881102B	88881103B	88881104B	Picture
Model name on carton box label.	MaxQ2000CO2 Plus, 100-240V, for USA	MaxQ2000CO2 Plus, 100-240V, various plugs	MaxQ2000CO2 Plus Package includes 88881101B Shaker, Universal Platform and Flask Clamp Starter Kit	MaxQ2000CO2 Plus Package includes (8881102B Shaker, Universal Platform and Flask Clamp Starter Kit	
EU Plug	N/A	1	N/A	1	
UK Plug	N/A	1	N/A	1	
Universal Platform (AL)	N/A	N/A	1	1	
100ml Flask Clamp	N/A	N/A	2	2	
250ml Flask Clamps	N/A	N/A	4	4	
500ml Flask Clamps	N/A	N/A	4	4	
1L Flask Clamps	N/A	N/A	2	2	
2L Flask Clamps	N/A	N/A	2	2	
Data Port	1	1	1	1	

Universal (Aluminum) Platform Installation

1. Place the instrument on a level and firm surface; it must be capable of supporting the weight and load of the instrument, and the impact force generated by the motion. Prepare related parts (see Figure 1-1).



- 1) M4x14 cross recessed countersink head screws
- 2) Universal (aluminum) platform
- 3) Main body of CO₂ resistant shaker

Figure 1-1. Universal Platform Installation Diagram

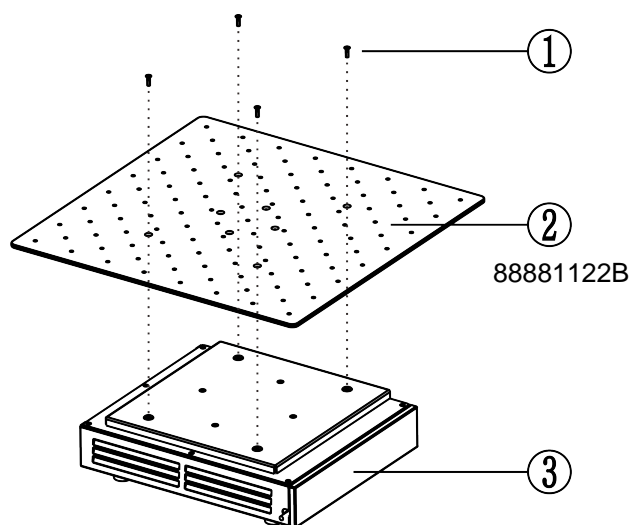
2. Install the horizontal universal platform on the fixed plate of the Main body, ensure all four mounting holes in the universal platform and the four threaded mounting holes are in alignment.
3. Fasten the universal platform and the fixed plate with four M4x14 cross recessed countersink head screws.

Section 1

Unpacking and Installation

18 inch (Aluminum) Platform Installation

1. Place the instrument on a level and firm surface; it must be capable of supporting the weight and load of the instrument, and the impact force generated by the motion. Prepare related parts (see Figure 1-2).



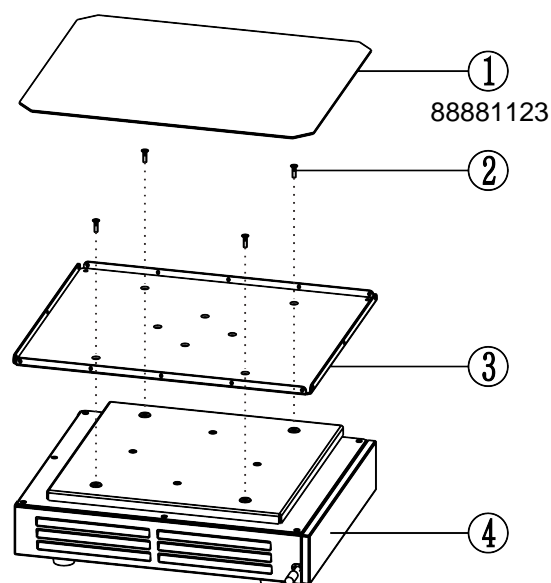
- 1) M4x14 cross recessed countersink head screws
- 2) 18 inch (aluminum) platform
- 3) Main body of CO₂ resistant shaker

Figure 1-2. 18 inch Platform Installation Diagram

2. Install the horizontal universal platform on the fixed plate of the Main body, ensure all four mounting holes in the universal platform and the four threaded mounting holes are in alignment.
3. Fasten the universal platform and the fixed plate with four M4x14 cross recessed countersink head screws.

Rubber Mat Platform Installation

1. Place the instrument on a level and firm surface; it must be capable of supporting the weight and load of the instrument, and the impact force generated by the motion. Prepare related parts (see Figure 1-3).



- 1) Rubber mat
- 2) M4x10 cross recessed countersunk head screws
- 3) Platform
- 4) Main body of CO₂ resistant shaker

Figure 1-2. Universal Platform Installation Diagram

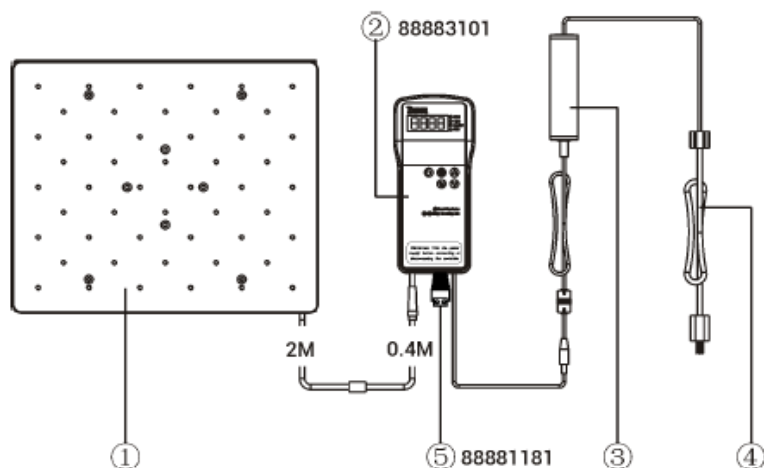
2. Install the horizontal platform on the fixed plate of the Main body; ensure all four mounting holes on the platform and the four threaded mounting holes are in alignment.
3. Fasten the platform and the fixed plate with four M4x10 cross recessed countersink head screws.
4. Place the rubber mat on the platform.

Section 1

Unpacking and Installation

Connections of the Instrument

Refer to Figure 1-4 when connecting the instrument.



- 1) Main body of CO2 resistant shaker
- 2) Control box
- 3) Power adapter
- 4) Power cord
- 5) 4-20mA data port

Figure 1-4. Circuit Diagram

Note:

- 1) When disconnecting the control box from the main body, please cut off the power first. ▲
- 2) No special cable needed to connect with 4-20mA data port. ▲

Section 2 Overview

Specifications

Rotation Speed

Speed Range 30 to 1200 rpm
Speed Accuracy ± 5 rpm
Orbit Diameter $\varnothing 3$ mm
Motion Type Orbital
Speed Display LED

Load

Maximum Load 10kg @ ≤ 150 rpm
6kg @ ≤ 600 rpm 3kg
@ ≤ 1000 rpm 2kg
@ ≤ 1200 rpm

Timer

Timer Range 0~99h 59min.
Hour Display LED
Minute Display LED

Dimensions (WxDxH)

Main body 360 x 300 x 101mm (14.2 x 11.8 x 4.0 inch)
Control Box 213 x 95 x 26mm (8.4 x 3.7 x 1.0 inch)

Weight

Net Weight (Main body) 16.0 kg (35.27 lbs)
Net Weight (Control Box) 0.3 kg (0.66 lbs)
Gross weight 17.8 kg (39.24 lbs)

Power Supply

Requirement AC100 - 240V, 50/60Hz

Other

Certification ROHS, WEEE, cCSAus, CE Mark,
FCC, CA 65, REACH, ICES-001
Noise level <60dB

Environmental Conditions

Application Environment Conditions: Indoor use

Temperature	4°C to 60°C
Altitude	≤2,000 m
Humidity	20% to 99%
CO ₂ Concentration	0% to 20%

Storage Environmental Conditions

Temperature	5°C to 60°C
Altitude	≤2,000m
Humidity	20% to 99%, Non-Condensing

Safety Tips

1. Unplug and unload before moving the unit.
2. This instrument uses a single-phase AC100 - 240V 50/60Hz power supply.
3. Remove the power supply when the instrument is in maintenance.
4. DO NOT clean the unit with flammable or corrosive liquid.
5. Use specified power supply.
6. Maximum load 10kg (22.05 lbs.) @≤150 rpm
7. To ensure proper operation, the unit must be free of surrounding obstructions.

Storing the Signal Cable

To store the signal cable, simply open the side plate on the main body. Refer to Figure 2-1. The signal cable can be placed inside.

Caution When storing the cable, pay attention to closing the side plate door, to avoid pinching your fingers. ▲

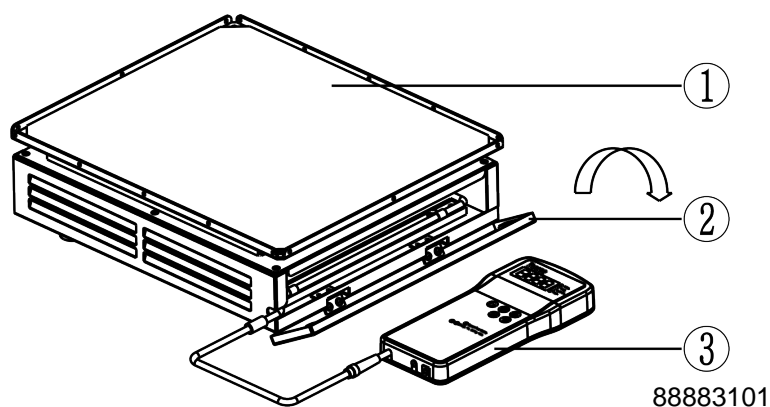


Figure 2-1. Storing the Signal Cable Diagram

Orbital Speed vs. Output Current Monitoring System

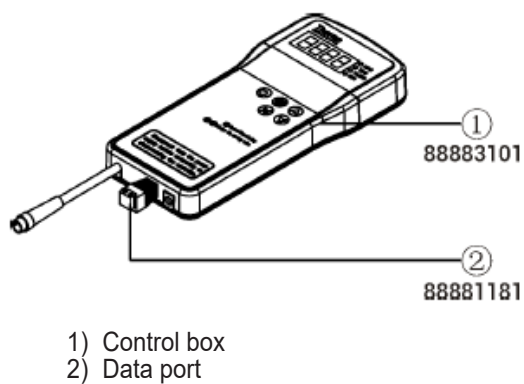
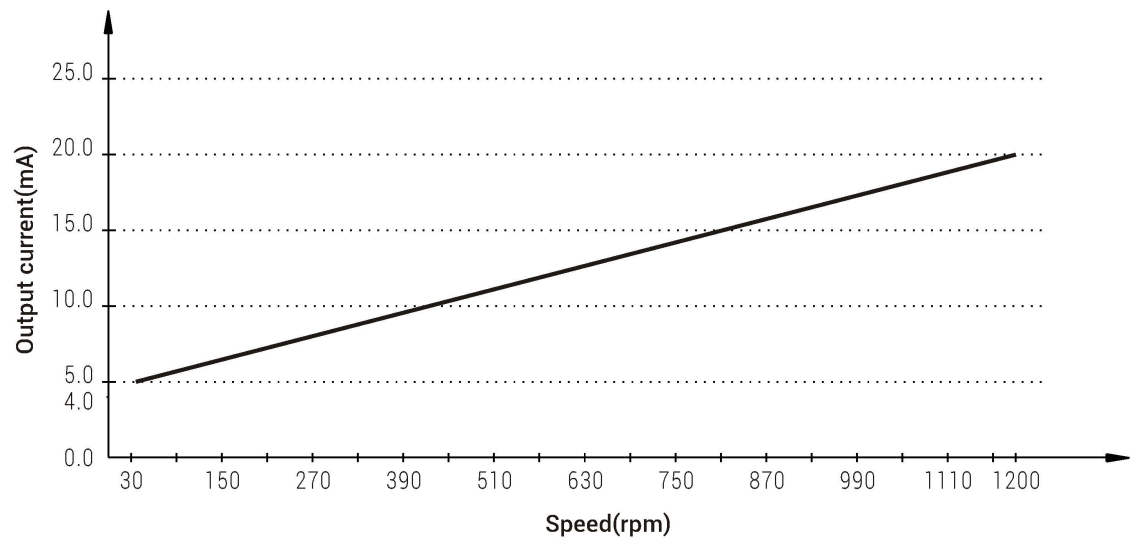


Figure 2-2. Output Current Monitoring System

Orbital Speed vs.
Output Current
Monitoring System
(Continued)

Table 2-1. Output current under different speed conditions

Speed (rpm)	Output current (mA)
0	4
30	4.8
1200	20



Maximum Shaking Speed

Table 2-2. Maximum Shaking Speed on Rubber Platform in Relation to Flask Size

Flask Size		Max Speed (rpm)
Size	Liquid Volume	
50ml	≤50ml	350
100ml	≤100ml	350
150ml	≤150ml	350
200ml	≤200ml	350
250ml	≤250ml	350
500ml	≤500ml	300
1000ml	≤1000ml	250
2000ml	≤2000ml	200
3000ml	≤3000ml	200
5000ml	≤5000ml	150

Table 2-3. Maximum Shaking Speed and Flask Capacity on Universal Platform

Flask Size		Max # of flasks per Universal Platform	Max Speed (rpm)
Size	Liquid Volume		
50ml	≤50ml	30	800
100ml	≤100ml	15	800
150ml	≤150ml	15	800
200ml	≤200ml	15	780
250ml	≤250ml	15	750
500ml	≤500ml	9	700
1000ml	≤500ml	4	650
	≤1000ml	4	550
2000ml	≤1000ml	4	600
	≤2000ml	4	500
3000ml	≤1500ml	3	450
	≤3000ml	3	400
5000ml	≤2500ml	1	450
	≤5000ml	1	400

Maximum Shaking Speed (Continued)

Note:

- 1) The flask clamps ($\leq 2L$) can be placed anywhere on the universal (aluminum) platform, even if the load is not balanced. ▲
- 2) Please refer to the “Liquid Volume” table in the specifications section for the maximum load. ▲

Table 2-4. Maximum Shaking Speed and Flask Capacity on 18 inch (aluminum) Platform

Flask Size		Max # of flasks per 18"x18" Platform	Max Speed (rpm)
Size	Liquid Volume		
50ml	$\leq 50ml$	49	650
100ml	$\leq 100ml$	25	650
150ml	$\leq 150ml$	25	650
200ml	$\leq 200ml$	18	600
250ml	$\leq 250ml$	18	550
500ml	$\leq 500ml$	10	450
1000ml	$\leq 500ml$	7	550
	$\leq 1000ml$	7	350
2000ml	$\leq 1000ml$	4	480
	$\leq 2000ml$	4	250
3000ml	$\leq 1500ml$	4	480
	$\leq 3000ml$	4	250
5000ml	$\leq 2500ml$	2	300
	$\leq 5000ml$	2	250

Note:

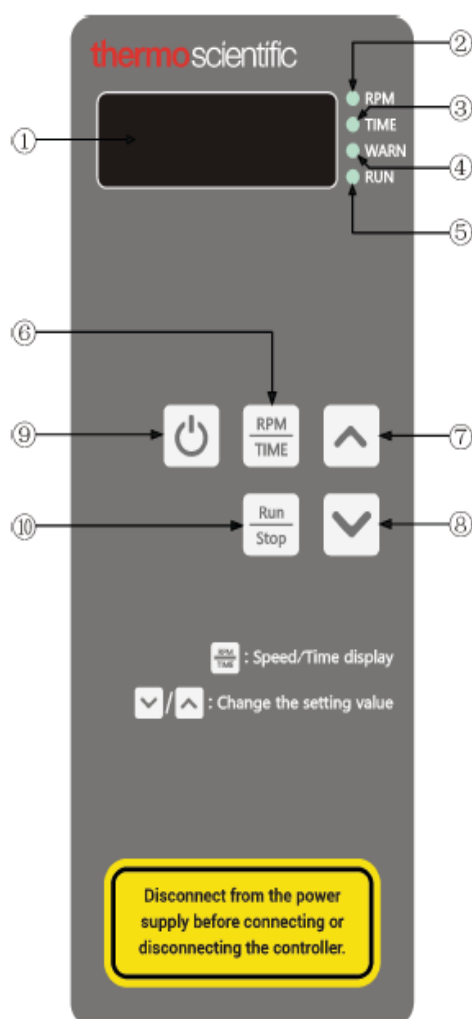
- 1) The flask clamps ($< 2L$) can be placed anywhere on the 18 inch (aluminum) platform, even if the load is not balanced. ▲
- 2) Please refer to the “Liquid Volume” table in the specifications section for the maximum load. ▲

Section 3 Operation


The unit has been designed with a “soft start/slow down” providing a smooth acceleration/deceleration during operation. This feature will decrease splashing of solutions from vessels during operation.

Warning The microprocessor control system may take 1 minute to synchronize the actual RPM of the universal (aluminum) platform to the desired RPM setting. Make sure that all the flasks and test tubes are firmly fixed on the universal platform and the flask clamps are fastened securely with the screws. ▲

Operations on the Control Panel



Operations on the Control Panel (Continued)

- 1) Display LED: Shows time or speed
- 2) RPM indicator light: LED shows current speed
- 3) TIME indicator light: LED shows current time.
- 4) WARN indicator light: Over-speed alarm.
- 5) RUN indicator light: The instrument is running.
- 6) RPM/TIME Key: While instrument is in operation, press to change time and speed display; when setting parameter, press to change minutes, hour or speed.
- 7) Up Arrow Key: Increases value. Hold for 3 seconds to increase rapidly.
- 8) Down Arrow Key: Decreases value. Hold for 3 seconds to decrease rapidly.
- 9)  Key: The power is On/Off.
- 10) Run/Stop Key: The instrument is running or stopped.

Speed and Time Settings

Speed setting

1. Press RPM/TIME key. The speed indicator light is lit.
2. Press up and down arrow keys to access the speed setting state, speed value starts flashing.
3. Press up and down arrow keys to change the speed value. Speed increases or decreases. The minimum unit is 1rpm.
4. During settings, the unit will reset to current values if no value is input after three seconds.
5. Press “Run/Stop” key to run or stop.

Time setting

1. Press RPM/TIME key. The time indicator light is lit.
2. Press up and down arrow keys to access the speed setting state. Speed value starts flashing.
3. Press up and down arrow keys to change the time value. Time increases or decreases. The minimum unit is 1 minute or 1 hour.
4. During settings, the unit will reset to current values if no value is input after three seconds.
5. Press “Run/Stop” key to run or stop.

Speed and Time Settings (Continued)

Notes

1. When the shaker is running, the LED display will switch between the speed and timer function every 30 seconds automatically. Press RPM/TIME key to manually toggle between the speed and timer value.
2. In “timer mode” the LED display will show the remaining running time.
3. In “continuous mode” the LED display will show elapsed run time.
4. After the run is complete, the LED display will read “end”. Press any key to place the shaker in standby mode.

Alarm System

Alarm System

1. During operation, the alarm will sound after 10 seconds if the unit has not begun shaking. In addition, the alarm will sound and stop for the speed over 1250 rpm after 2 seconds.
2. Once the shaker begins to alarm, the RUN indicator light will not be visible and the WARN indicator light will flash, and the unit will stop running.

Power failure recovery

When the power supply is cut off suddenly to the shaker, resulting in a power failure, the unit will automatically run at the previous set parameter upon power restoration.

Section 3

Operation

Section 4 Application

Application on Lab Benches

To operate the shaker outside of a CO₂ incubator, refer to Specifications in Section 2.

Application in CO₂ Incubator

Place the main body of the shaker in the CO₂ incubator, and use the signal cable to connect the control box through the access port of the CO₂ incubator. Refer to Figure 4-1.

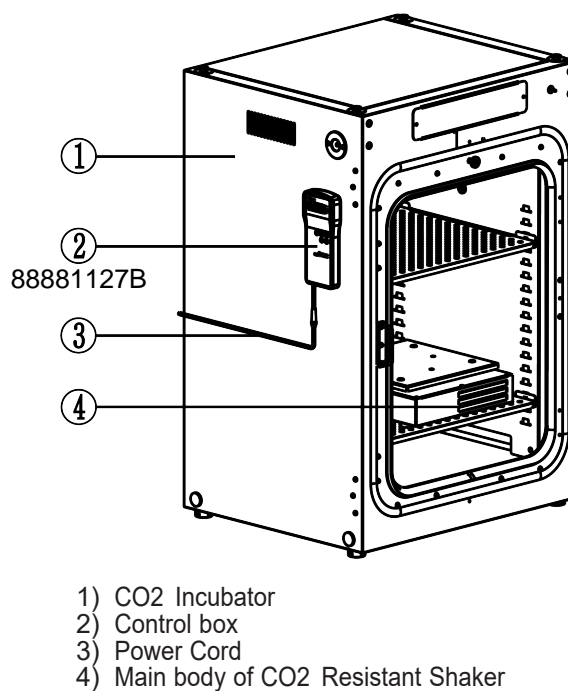


Figure 4-1. Application in CO₂ incubator

Warning

1. Never put the control box in the CO₂ incubator.
2. The back of control box is magnetized, and can be attached on the surface of the CO₂ incubator.
3. When the main body of CO₂ Resistant Shaker is in operation in the CO₂ incubator, keep a safe distance from the inner wall of the CO₂ incubator to avoid collisions.
4. The main body of the shaker should be connected to the control box wire through the access port of the CO₂ incubator.
5. If the cells are sensitive to vibrations, do not put them in the same incubator or on the shaker.
6. Never put the main body of CO₂ Resistant Shaker into the CO₂ incubator when it is High temperature sterilization.

Section 5 **Safety Tips and Maintenance**

Safety Tips

1. Confirm local power supply voltage before use the unit.
2. The unit must not be plugged into a power supply extension with other pieces of equipment.
3. The data cable between the main body and control box cannot be extended.
4. Never modify the supplied power cables.
5. Service should only be performed by a qualified professional.
6. In the following situations, the power supply must be unplugged:
 - When the unit is moved.
 - When the control box is opened.
 - When a fuse is replaced.
 - When the equipment is not functioning properly.
 - When the equipment is not in use.

Maintenance

Surfaces can be cleaned with mild detergent and water. Liquid should not be allowed to enter inside the unit.

Section 5

Safety Tips and Maintenance

Clean spill


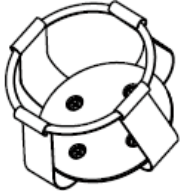



If accidental spillage of liquids or other materials occur on the platform, shut down the machine and clean up the liquids or other materials immediately.

Note If liquid has entered the unit, remove the platform and clean it. ▲

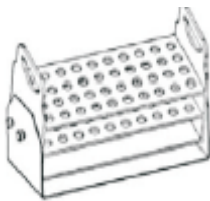
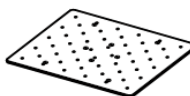



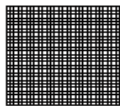



1. Turn off the machine and unplug the power cord.
2. Remove the platform (with 4 screws).
3. Remove top plate (with 7 screws).
4. Use 70% ETOH to clean the inner area.
5. All allow the unit to dry for one hour, reassemble unit, and operate normally.

Section 6 Optional Accessories




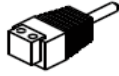
Tabel 6-1. Universal (Aluminum) Platform

Description	Cat. No.	Dimensions (WxDxH) mm	Max. Qty.	Figure
50ml clamp	88881105	60×60×40	30	
100ml clamp	88881106	60×65×45	15	
150ml clamp	88881107	80×80×50	15	
200ml clamp	88881108	80×80×55	15	
250ml clamp	88881109	90×90×60	15	
500ml clamp	88881110	115×115×70	9	
1000ml clamp	88881111	130×130×75	4	
2000ml clamp	88881112	170×170×100	4	
3000ml clamp	88881113	200×200×140	2	
5000ml clamp	88881114	245×245×140	1	
500ml Infusion bottle clamp	88881115	100×100×95	6	
1000ml Infusion bottle clamp	88881116	125×125×125	4	
Funnel Clamp	88881117	N/A	2	
Fixed Tube rack 40×Ø14mm	88881118	265x120x140	2	
Fixed Tube rack 40×Ø16mm	88881119	265x120x140	2	


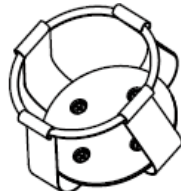



Tabel 6-1. Universal (Aluminum) Platform (Continued)

Description	Cat. No.	Dimensions (WxDxH) mm	Max. Qty.	Figure
Adjustable Tube rack 40×Ø14mm	88881120	285x125x175	2	
Adjustable Tube rack 40×Ø16mm	88881121	285x125x175	2	
Universal (Aluminum) platform	88881122	360x300x5	1	
Rubber Mat platform	88881123	360x305x10	N/A	
96-well microplate holder	88881124	130x90x15	6	
Spring Wire Rack	88881125	350X240X80	1	
Sticky Mat	88881126	140x140	4	
Control Box	88883101	213x95x26	1	
General Power Adaptor	88881180	N/A	1	
US Plug	88881129	N/A	1	

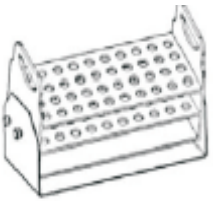
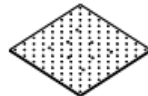



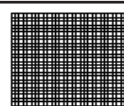



Tabel 6-1. Universal (Aluminum) Platform (Continued)

Description	Cat. No.	Dimensions (WxDxH) mm	Max. Qty.	Figure
CN Plug	88881130	N/A	1	
EU Plug	88881131	N/A	1	
UK Plug	88881132	N/A	1	
Flask Clamp Starter Kit	88881133	N/A	1	100ml flask clamp x 2 250ml flask clamps x 4 500ml flask clamps x 4 1L flask clamps x 2 2L flask clamp x 2
Data port	88881181	41X41X41	1	


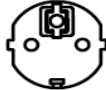
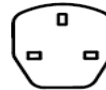

Tabel 6-2. 18 inch (Aluminum) Platform

Description	Cat. No.	Dimensions (WxDxH) mm	Max. Qty.	Figure
50ml clamp	88881105	60×60×40	49	
100ml clamp	88881106	60×65×45	25	
150ml clamp	88881107	80×80×50	25	
200ml clamp	88881108	80×80×55	18	
250ml clamp	88881109	90×90×60	18	
500ml clamp	88881110	115×115×70	10	
1000ml clamp	88881111	130×130×75	7	
2000ml clamp	88881112	170×170×100	4	
3000ml clamp	88881113	200×200×140	4	
5000ml clamp	88881114	245×245×140	2	
500ml Infusion bottle clamp	88881115	100×100×95	12	
1000ml Infusion bottle clamp	88881116	125×125×125	9	
Funnel Clamp	88881117	N/A	6	
Fixed Tube rack 40×Ø14mm	88881118	265x120x140	4	
Fixed Tube rack 40×Ø16mm	88881119	265x120x140	4	

Tabel 6-2. 18 inch (Aluminum) Platform (Continued)

Description	Cat. No.	Dimensions (WxDxH) mm	Max. Qty.	Figure
Adjustable Tube rack 40×Ø14mm	88881120	285x125x175	4	
Adjustable Tube rack 40×Ø16mm	88881121	285x125x175	4	
18 inch (Aluminum) platform	88881122B	457x457x6	1	
Rubber Mat platform	88881123	360x305x10	N/A	
96-well microplate holder	88881124	130x90x15	10	
Spring Wire Rack	88881125	350X240X80	1	
Sticky Mat	88881126	140×140	9	
Control Box	88883101	213×95×26	1	
General Power Adaptor	88881180	N/A	1	
US Plug	88881129	N/A	1	

Tabel 6-2. 18 inch (Aluminum) Platform (Continued)

Description	Cat. No.	Dimensions (WxDxH) mm	Max. Qty.	Figure
CN Plug	88881130	N/A	1	
EU Plug	88881131	N/A	1	
UK Plug	88881132	N/A	1	
Flask Clamp Starter Kit	88881133	N/A	1	100ml flask clamp x 2 250ml flask clamps x 4 500ml flask clamps x 4 1L flask clamps x 2 2L flask clamp x 2
Data port	88881181	41X41X41	1	

Section 7 Troubleshooting

To troubleshoot the unit, refer to the table below. If your problem persists, contact your local sales/service representative.

Table 7-1. Troubleshooting

Error	Cause	Solution
Indicator off No reaction	Power disconnected	Connect the power
	Power adapter failure	Replace power adapter
	Switched off	Switch on
No rotating of platform	Sensor failure	Contact local sales/service
	Main-board failure	Contact local sales/service
Loud noise	The unit has been placed on uneven surface	Place the unit on level and sturdy surface.
	Platform loose	Fasten platform
	Accessories loose	Fasten accessories
Other	Keep record for maintenance	

Section 7
Troubleshooting

THERMO FISHER SCIENTIFIC STANDARD PRODUCT WARRANTY

The Warranty Period starts two weeks from the date your equipment is shipped from our facility. This allows for shipping time so the warranty will go into effect at approximately the same time your equipment is delivered. The warranty protection extends to any subsequent owner during the first year warranty period.

During the first two (2) years, component parts proven to be non-conforming in materials or workmanship will be repaired or replaced at Thermo's expense, labor included. Installation and calibration are not covered by this warranty agreement. The Technical Services Department must be contacted for warranty determination and direction prior to performance of any repairs. Expendable items, glass, filters and gaskets are excluded from this warranty.

Replacement or repair of components parts or equipment under this warranty shall not extend the warranty to either the equipment or to the component part beyond the original warranty period. The Technical Services Department must give prior approval for return of any components or equipment. At Thermo's option, all non-conforming parts must be returned to Thermo Fisher Scientific postage paid and replacement parts are shipped FOB destination.

THIS WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, WHETHER WRITTEN, ORAL OR IMPLIED. NO WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE SHALL APPLY. Thermo shall not be liable for any indirect or consequential damages including, without limitation, damages relating to lost profits or loss of products.

Your local Thermo Sales Office is ready to help with comprehensive site preparation information before your equipment arrives. Printed instruction manuals carefully detail equipment installation, operation and preventive maintenance.

If equipment service is required, please call your Technical Services Department at 1-800-438-4851 (USA and Canada) or 1-740-373-4763. We're ready to answer your questions on equipment warranty, operation, maintenance, service and special application. Outside the USA, contact your local distributor for warranty information.

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Section 8

Warranty Information

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