How to use :



Mars Graphite Heating System



Install the Mars Graphite Hotplate in a functional fume hood.



Connect the hotplate and controller together by plug-in cable and connect controller to power supply.

- ◆ Do NOT bundle the cable.
- Please align the arrows on both side of plug-in cable and insert it.



Loose the front pads, pull out wall-mounted accessory and hang the controller outside of the fume hood.

- Controller is designed for both wall-mounted and desktop.
- ♦ 3M 17004 adhesive hook is recommended.



Choose the heating system by digestion vessels:

- (1) hotplate or (2) hotblock
- Please assemble and change the block(s) at room temperature.



Switch on the controller, select a program or modify the parameters. Press ►/■ to preheat after setting is complete.

 Please refer to Parameter Setting for modification.



Put the samples in the preheated graphite heating system.



Connect the PTFE temperature sensor to connector if needed. Insert it into sample to observe the liquid temperature.

◆ If no sensor is connected, TE= --- is displayed.



The instrument will stop heating while end of countdown timer. Wear THICK gloves to immediately remove the samples or let the samples cools to room temperature for subsequent experiments.

 If 00:00 is set, heating should be stopped by pressing ►/ ■.



After cooling to room temperature, clean surface with damp cloth or mild soap.





Parameter Setting



Press \blacktriangle / \bigtriangledown to select a program, then modify the parameters by pressing \diamondsuit .



Press ▲ / ▼ to modify the flash figure, press ✿ to others parameter setting.

- Setting cycle as temp., hour, minute.
- Timer is displayed as hh:mm, 00 : 00 indicates continuous heating.



Press ► / ■ to save the setting after setting is complete.



178320-22	Mars 320, Graphite Hotplate, AC220V, 50/60Hz
178430-22	Mars 430, Graphite Hotplate, AC220V, 50/60Hz
178200-45	PTFE-Coated Temperature Sensor

Digestion Tube



295 mm 197 mm

	Tube Volume					
	15 ml	50 ml	100 ml			
PP	178200-15-PP	178200-50-PP	178200-100-PP			
Borosilicate Glass	178200-15	178200-50	178200-100			
PTFE	178200-15-PTFE	178200-50-PTFE	178200-100-PTFE			
Max. Operating Temperature ●PP:130°C ●Glass / PTFE: 200 °C						

♦ Graphite Block (L x W): 295 x 197 mm

\$ Hol	e Depth	
		17
178200-07	178200-10	17
		12
178200-08	178200-11	17
		17
178200-09	178200-12	17

Di	Hole iameter	Hole Depth	Max. Capacity	Applicable Tube
.00-07 1	6.5 mm	45 mm	70 well	φ16mm tube
.00-08 20	0.5 mm	55 mm	54 well	φ20mm tube
.00-09 2.	5.5 mm	70 mm	40 well	φ25 mm tube
.00-10 1	l9mm	90 mm	54 well	15 ml digestion tube, ϕ 18 mm tube
.00-11 3	32 mm	90 mm	24 well	50 ml digestion tube, ϕ 30 mm tube
.00-12 4	17 mm	90 mm	15 well	100 ml digestion tube
	Di 00-07 14 00-08 24 00-09 2 00-10 1 00-11 3 00-12 4	Hole Diameter 00-07 16.5 mm 00-08 20.5 mm 00-09 25.5 mm 00-10 19 mm 00-11 32 mm 00-12 47 mm	Hole DiameterHole Depth00-0716.5 mm45 mm00-0820.5 mm55 mm00-0925.5 mm70 mm00-1019 mm90 mm00-1132 mm90 mm00-1247 mm90 mm	Hole Diameter Hole Depth Max. Capacity 00-07 16.5 mm 45 mm 70 well 00-08 20.5 mm 55 mm 54 well 00-09 25.5 mm 70 mm 40 well 00-10 19 mm 90 mm 54 well 00-11 32 mm 90 mm 24 well 00-12 47 mm 90 mm 15 well

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