



HP61/HP61A Laboratory Hot Plate, Programmable

The Torrey Pines Scientific HP61 series programmable hot plates is designed specifically for larger samples. Mounted into a cast aluminum frame, the chemically resistant ceramic heater top of the HP61 is ideally suited for precise temperature control of liquid media.

With the HP61A on the other hand, solid samples can be heated directly on the plate surface. Its heater top is made from a cast aluminum alloy, enabling minimum pitting when milled. It is very flat and, thanks to its better heat conductivity, provides a more uniform heating across the surface, compared to ceramic glass.

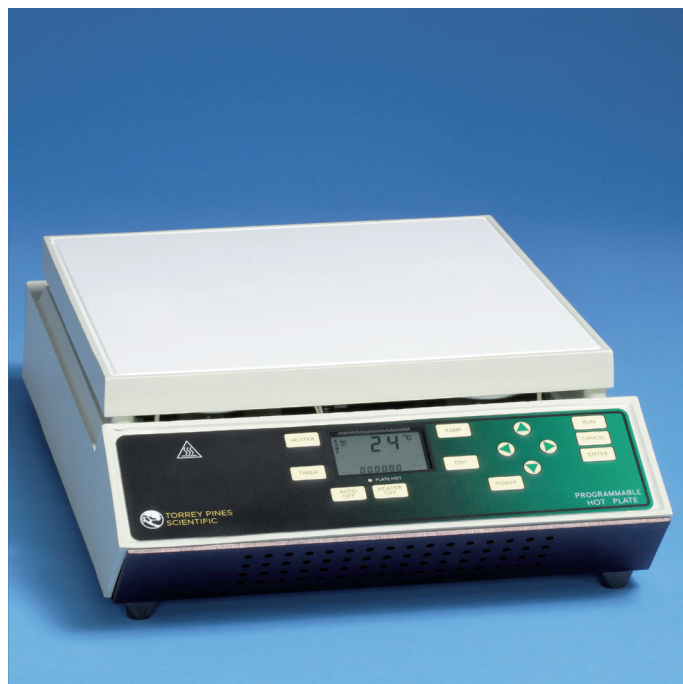
Both models provide a 305 x 305 mm heater top with a heater power of 1,400 W. A platinum RTD sensor located under the plate surface determines the current temperature and forwards the information to a PID control loop.

The HP61 series laboratory hot plates is fully programmable. Its memory holds 10 methods, consisting of a maximum of 10 steps. Each step may contain a temperature, heating rate and timed event. Every method can be repeated up to 98 times or run continuously.

A DIN jack on the rear side of the unit accommodates the 254 mm long stainless steel immersion probe which is included with each unit and used to determine solution temperatures. In this regard we strongly recommend the use of a immersion probe for the most accurate temperature control.

The HP61 series hot plates comes with a large, easy-to-read LCD. The following parameters are displayed: measured plate surface or solution temperature (by means of immersion probe), count-down timer in hours, minutes and seconds, temperature ramp value as well as program steps.

All models feature a factory set electronic calibration, traceable to NIST, however, the user is able to recalibrate the unit to his own standard. A RS232 I/O port enables data collection or external PC control of the unit.



HP61 Laboratory Hot Plate (similar to illustration)



Image 1



Image 2

Image 1:
Display and controls of the Torrey Pines Scientific HP61 laboratory hot plate (similar to illustration)

Image 2:
Cast aluminum alloy heater top of the Torrey Pines Scientific HP61A laboratory hot plate (similar to illustration)



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TECHNICAL DATA AND SPECIFICATIONS

Heater power:	1,400 W
Plate material HP61:	ceramic glass
Plate material HP61A:	cast aluminum
Temperature range:	room temperature - 450 °C
Heater surface:	305 x 305 mm
Temperature accuracy:	1% deviation of setting
Temperature readability:	1 °C
Dimensions (WxHxD):	318 x 114 x 457 mm
Weight:	8.4 kg
Mains supply:	100, 115 and 230 VAC, 50/60 Hz
Immersion probe:	included with each unit (HS30-601)
Programmability:	10 methods comprising max. 10 steps
Program cycles:	1-98, indefinitely
Timer:	99 hours count-down
PID temperature control, plate and probe:	yes
Alarm & Auto-Off:	yes
RS232 I/O port:	yes
Immersion probe port:	yes (DIN jack)
Temperature ramp function:	yes
Warning LED - plate temperature >50 °C:	yes

ORDER INFORMATION

Description	Part No.
HP61 Laboratory Hot Plate, programmable, 305 x 305 mm ceramic glass top	HP61-2
HP61A Laboratory Hot Plate, programmable, 305 x 305 mm cast aluminum top	HP61A-2
Probe, stainless steel, 102 mm, platinum RTD approx. 1 m cable	HS50-600
Probe, stainless steel, 153 mm, platinum RTD, approx. 1 m cable	HS30-600
Probe, stainless steel, 254 mm, platinum RTD, approx. 1 m cable (included with each unit)	HS30-601
Probe, PTFE, 153 mm, platinum RTD, approx. 1 m cable	HS30-602
Probe, glass, 153 mm, platinum RTD, approx. 1 m cable	HS30-603
Probe, glass, 229 mm, platinum RTD, approx. 1 m cable	HS30-604
Probe Calibration Kit	HS30-700
Hot Plate and Probe Calibration Kit	HS30-800

For order and pricing information, please refer to: www.msscscientific.de/torreypineslabequipment_pdfpricelist.pdf