

# Cole-Parmer®

## Cole-Parmer® Premium Hot Plate Stirrer SHP-400

- Hot surface warning light flashes when plate temperature is above 50°C
- Durable front panel resists spills and chemicals
- Available in various colors





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The Cole-Parmer® SHP-400 Premium Hot Plates have been designed to seamlessly blend scientific precision with contemporary styling and meet the day to day needs of today's scientific professionals and students. The mains independent "Hot" warning light will flash whenever the plate temperature is above 50°C even when the hotplate is turned off and unplugged from the mains. This unit features an integral fixing point for a retort rod. Ceramic coated Aluminium surfaces have been designed for very accurate top plate temperature. Ideal for microarrays, in-situ hybridisation and specialised electronics applications. The top plate has a thin ceramic coating for added chemical resistance. A 700W element gives rapid heating and ensures even temperature distribution across the whole surface of the plate.

As the hot plate heats the sample to the set temperature, the advanced control algorithm automatically measures the rate of temperature rise to judge the capacity and nature of samples (e.g. oil or aqueous). It then optimises the heating rate to minimize overshoot and time to set point. An audible alert sounds when the set temperature has been reached. There is the ability to create programs, controlling the temperature. Individual customer temperature profiles can be created and saved to the unit allowing for fast set up of complicated experimental procedures, without tying the user to the unit adjusting settings for a prolonged period of time. The unit is supplied with a PTFE coated temperature probe, which when immersed within the sample allows accurate sample temperature control to within  $\pm 1^\circ\text{C}$ .

### Technical Specification

Specification	SHP-400
Plate material	Ceramic or Ceramic-Coated Aluminium
Plate dimensions, mm	150 x 150
Heated area, mm (Ceramic)	120 x 120
Heated area, mm (Ceramic-Coated Aluminium)	150 x 150
Heater power, W	Ceramic 500W, Ceramic Coated Alum 700W
Stirrer Speed, RPM (Ceramic)	50 up to 1250
Stirrer Speed, RPM (Ceramic-Coated)	50 up to 1400
Display resolution °C	1
Max. plate temp. °C	Ceramic 450°C, Ceramic Coated Alum 325°C
Connection for Ext. temperature sensor	PT100 temperature probe (included)
Control accuracy with probe °C	$\pm 1^\circ\text{C}$
Hot warning light	Mains Independent
Programmable	Programmable stopstart & sinusoidal
Available colors	Blue/White
Net weight, kg	Ceramic 2.68 kg, Ceramic Coated Alum 2.73 kg
Overall dimensions (w x d x h)	180 x 300 x 93
Electrical supply	120V, 60Hz or 230V, 50Hz

### Ordering Information

Description	Ordering Number	Series No.	Model No.	Legacy Sku.
Small Metal Hot Plate, Premium, Blue	04806-65	SHP-400	SHP-400-BS	SP152B
Small Metal Hot Plate, Premium, Blue, 120V, 60Hz	04806-64	SHP-400	SHP-400-BS-120	SP152B/120
Small Metal Hot Plate Premium, White	04806-67	SHP-400	SHP-400-WS	SP152W
Small Metal Hot Plate, Premium, White, 120V, 60Hz	04806-66	SHP-400	SHP-400-WS-120	SP152W/120
Small Ceramic Hot Plate, Premium, Blue	04806-81	SHP-400	SHP-400-BC	CP152B
Small Ceramic Hot Plate, Premium, Blue, 120V, 60Hz	04806-80	SHP-400	SHP-400-BC-120	CP152B/120
Small Ceramic Hot Plate, Premium, White	04806-83	SHP-400	SHP-400-WC	CP152W
Small Ceramic Hot Plate, Premium, White, 120V, 60Hz	04806-82	SHP-400	SHP-400-WC-120	CP152W/120

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