

FCP611, FCP612 Hot and Cold Plate

INSTECH® FOCUS ON EXCELLENCE



#FCP611-60417

Features

- Hot and Cold Plate with Gas Tight Sample Chamber
- Eight Wire Feed-Through for Sample Probing
- Programmable Precision Temperature Control from -190°C to 600°C with 0.1°C Temperature Precision
- Optional Inner Lid for Precision Temperature Control
- Optional Spacer to Increase Sample Chamber Height
- Vertical or Horizontal Mounting
- Fast Heating and Cooling Rate
- Configured with STC200 Standalone Temperature Controller with RS232 Communication Port and Windows Based Software
- Optional IEEE488 Communication Port
- Free LabVIEW Drivers for IEEE488 and RS232



FCP611



FCP612

Technical Specification

Temperature Control Sensor	Platinum RTD
Temperature Range	-190°C to 600°C Below ambient operation requires LN2 cooling system.
Temperature Precision	0.1°C
Temperature Stability	±0.2°C at 100°C
Heating Rate	Ambient to 300°C in 2 min.
Minimum Working Distance	6.7 mm
Sample Chamber	Gas purge with 8 wire feed-through
Sample Area	FCP611: 20mm X 20mm (0.8" X 0.8") FCP612: 38mm X 38mm (1.5" X 1.5")
Sample View Window (Reflected Light)	26.5 mm diameter
Gas Inlet/Outlet	1/8 NPT Female

Ordering Information

Part Number	Description
FCP611-STC200	FCP611 Hot and Cold Plate System. -190°C to 600°C; Sample Area: 0.8"X0.8". System consists of a FCP611 hot and cold plate, a STC200 temperature controller, and WinTemp software. 115V/230V Universal Input Voltage. 8-wire feed-through with a DB9 connector on the stage frame.
FCP612-STC200	FCP612 Hot and Cold Plate System. -190°C to 600°C; Sample Area: 1.5"X1.5". System consists of a FCP612 hot and cold plate, a STC200 temperature controller, and WinTemp software. 115V/230V Universal Input Voltage. 8-wire feed-through with a DB9 connector on the stage frame.

Accessories	
Optional Parts for STC200	Please refer to the STC200 Temperature Controller brochure for add-on STC200 controller optional parts (e.g. IEEE-STC200: IEEE 488 communication port).
LN2-SYS	Liquid Nitrogen Cooling Accessory. Please refer to the LN2-SYS brochure for selections of liquid nitrogen cooling accessories.
WP115C/WP230C	115V or 230V circulation water pump for sample chamber cooling to below ambient temperatures (as low as 5°C).
WP115V/WP230V	115V or 230V circulation water pump for frame cooling.

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Contact Instec today for further product information. Inquires for a hot and cold stage, a hot and cold chuck, a hot and cold plate, and/or the liquid crystal testing products customized to your special requirements are also welcome. Above information is subject to changes without notice.