

HEATING AND COOLING STAGES

TS102V THERMAL VACUUM STAGE

Features:

- Peltier Based Thermal Stage with Sealed Sample Chamber for Vacuum
- Programmable Precision Temperature Control from -40°C to 90°C with 0.1°C Temperature Precision
- Large Viewing Aperture
- Large Sample Area
- Controlled Fast Heating and Cooling Rate
- Optional Two Electric Feed-Through Leads for Sample Probing
- RS232 Communication Port Included in Basic System with Windows Based Software
- Optional IEEE488 Communication Port
- Free LabVIEW Driver for IEEE488 and RS232



Technical Specification

Temperature Control Sensor	Platinum RTD
Temperature Range	-40°C to 90°C
Temperature Precision	0.1°C
Temperature Stability	$\pm 0.1^{\circ}\text{C}$ at 37°C
Minimum Working Distance	6.6 mm
Minimum Condenser Distance	20 mm
Sample Area	1" x 3.5"
Sample View Aperture (Reflected Light)	26.5 mm
Sample View Aperture (Transmitted Light)	2 mm, 5mm, 8mm, 10mm
Vacuum Port	1/8 NPT Female
Gauge Port	1/8 NPT Female

Ordering Information

Part No	Description
TS102V-STC20A	TS102V vacuum thermal stage with STC200 temperature controller. RS232 communication port, with Win-Temp software. 115V input power.
TS102V-STC20U	TS102V vacuum thermal stage with STC200 temperature controller. RS232 communication port, with Win-Temp software. 230V input power
F2V-TS102V	Two electric lead feed-through for TS102V

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).



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