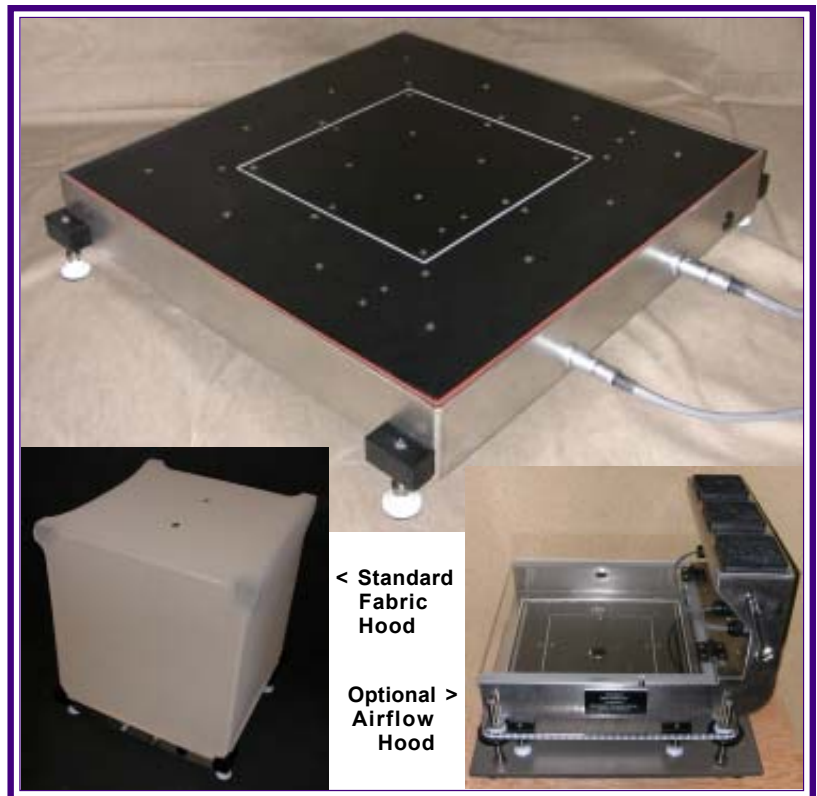


Dry Guarded Hotplate

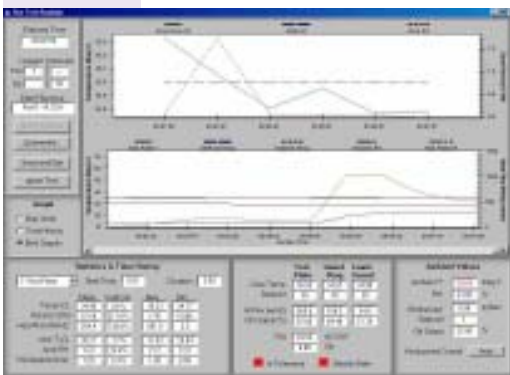
- Standard 8" or 10" square hotplate with lateral and lower thermal guards. Call for custom sizes and geometries.
- Copper test plate and guards with ultra-stable resistance wire heating for uniform heat flux.
- Fabric mesh airflow hood. An optional acrylic airflow hood for ISO 11092 testing is also available.
- System includes two ambient temperature sensors and (optional) relative humidity sensor.
- Automatic or manual test operation.
- System includes a PC Pentium computer and monitor with exclusive ThermDAC control software. This intuitive, user-friendly, Windows-based application provides full thermal control, fault detection, system configuration and calibration, real-time data display, and data logging capabilities.



The Dry Guarded Hotplate system is a cost effective instrument designed to measure the thermal resistance (R-value) of fabrics in accordance with ASTM D1518 and other test standards in use worldwide. Accurate measurements of temperature and plate heat flux are used to calculate steady state thermal resistance for textile samples or insulation batting.

The Dry Guarded Hotplate system includes hotplate with lateral and lower thermal guards, fabric hood for uniform ambient conditions without an environmental chamber (an optional acrylic hood and ambient relative humidity sensor for ISO 11092 testing is available), plus our ThermDAC control and data logging system that makes testing as simple as clicking the mouse and walking away.

Two hotplate sizes are available: an 8" square plate with 2" guard, or a 10" square plate with 5" guard. Custom sizes and geometries can also be built.



Instruments for Textile and Biophysical Testing

Dry Guarded Hotplate (GHP)

Standard Specifications

Copper test plate, ring, and lower guards
Zone heaters and sensors - installed
Fabric mesh airflow hood
Pentium PC control computer and monitor
ThermDAC control software
Ultra-stable resistance wire heating
Two ambient temperature sensors
Signal conditioning electronics
Power and control cabling
Operators manual
One year warranty

Environmental

-20°C to +60°C operating range
0 to 100% R.H. including condensation

Measurement Range

Thermal resistance: .07 - 1.4 m² K/W
Thermal transmittance: 0.7 - 14 W/m²-K
± 0.1°C temperature measurement
± 1% power measurement

Certification

Both standard models comply with ASTM D-1518.

Model Information

Model GHP-8.2

8" (20.3cm) square test plate
2" (5cm) guard ring
Sample size: 12.2" ± 0.2" (31 ± 0.5cm)
Minimum chamber size: 26"x24"x24" (66x61x61cm)

Model GHP-10.5

10" (25.4cm) square test plate
5" (12.7cm) guard ring
Sample size: 20.2" ± 0.5" (51.3 ± 1.3cm)
Minimum chamber size: 32"x28"x30" (81x71x76cm)

ThermDAC™ Control Software

ThermDAC was developed by Measurement Technology Northwest specifically for manikin and hotplate systems. It is a user-friendly, intuitive, Windows-based application providing full thermal control, fault detection, and data logging capabilities. System configuration and calibration are also carried out within ThermDAC.

Several specific software features are included for our hotplate systems. User-defined tests allow operators to define non-standard test conditions and custom tolerance criteria. Red and green lights on the screen indicate steady state and in-tolerance conditions. Multiple graph displays can be viewed, with zooming to view device or ambient conditions in detail. Real-time statistical functions can be applied to the test data over any user-selected time range.

Operator training is available from Measurement Technology NW engineers or regional sales representatives to certify technicians in the use of this device.



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