HEAT FLOW METER DR-3030

STANDARD: ASTM C518, ISO 8301, EN 12667

Thermal conductivity is an important index used to evaluate the thermal conductivity and insulation performance of heat-resistant materials. The heat flow meter DR-3030 is used to determine the thermal conductivity of various homogeneous plate materials such as plastics, rubber, glass, fiberboard, styrene board, extruded board, foamed concrete, hollow glass, wood board, and granular materials, bulk materials, soft materials, etc. under different temperature conditions.

FEATURES

- ◎ It adopts OMRON programmable logic controller CPU unit and its matching temperature expansion module, which has strong anti-interference ability and high stability.
- ◎ Schneider's new solid-state contactless switch device is used for isolation control, which has high reliability, low noise and fast switching speed.
- ◎ It adopts computer standard RS-232 serial port, which is highly reliable and easy to use.
- ◎ PID control, through software self-tuning to adjust PID parameters, ensures temperature control accuracy.
- ◎ Three groups of six specimens can be placed at one time to avoid deviations in thermal conductivity caused by system errors.
- ◎ The software control system includes two modes: automatic control and manual control.

TECHNICAL SPECIFICATIONS

Thermal conductivity measurement range	0.001—2.000 W/ (m•K)
Thermal resistance measurement range	≥0.02 m^2•K/W
Thermal conductivity measurement accuracy	±3%
Thermal conductivity measurement repeatability	±1%
Temperature control range	-5~95℃
Temperature resolution	0.01℃
Specimen size	300mm×300mm×H(10～60) mm
Specimen flatness	0.1mm
Standard thickness	25mm
Clamp force	≤2.5kPa
Ambient temperature	15-30℃, standard temperature 23±2℃
Humidity	20-80%RH, standard 40-60%RH
Power supply	AC 220V±10%, 2.5kW

SINCE 2006

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