

Thermal Conductivity Instrument C-ISO 750

Measuring procedure	heat flow meter method according ISO 8301, ASTM C518, DIN EN 1946-3, EN 12664, EN 12667, EN 12939
Measuring range	in dependence of sample thickness 0.005 – 0.5 W/m-K
Sample dimensions	thickness in dependence of thermal conductivity 20 - 280 mm w x d: 300 x 300 mm – 750 x 750 mm
Mean sample temperature	in dependence of sample thickness and thermal conductivity of the sample 0°C - 60°C
Measuring inaccuracy	over entire range typically $\pm 1\%$ (max. $\pm 5\%$, according ISO 8301)
Reproducibility	typically $\pm 0,5\%$ (max. $\pm 1\%$, according ISO 8301)
Hot/cooling plates	aluminium, black elox, 750 x 750 mm
Temperature control	2x Peltier recirculation cooler, heat flow bidirectional possible
Add. gradient protection	Peltier cooler with heat exchanger
Temperature measurement	10 thermocouples for direct determination of mean temperature difference (2 levels ever 5 pieces), isothermal block
Heat flow meters	2 pcs, measuring area: 300 x 300 mm
Plate lifting unit	linear lifting function, electric motor with velocity regulation adjustable pressure
Measurement of thickness	digital, 0 – 320 mm, resolution 0,1 mm
Measurement of pressure	digital, 0 – 500 N, resolution 1 N
Display	7" 800 x 480 wide Touch Screen
Software	SBC, Windows [®] Embedded CE 7.0, Lambda 2012 CE
Operation / Display	- lifting speed
Touch screen	- pressure of the measuring plate - plate distance - start / stop measurement - measuring results
Interfaces	RS232, USB, Ethernet
Sample entry	from forwards (insulated sample door)
Construction	stationary device with insulated protection chamber
Operating conditions	Temperature +18 °C to +24 °C, relative humidity 5 % to 65 %
Dimensions	(W x D x H) 100 x 100 x 179 cm
Weight	265 kg
Power supply	110 V/60Hz or 230 V, 50 Hz, max. 1100 W
Delivery range	measuring instrument C-ISO 750-01 RS232 – connection cable, power cable English manual
Options	Software Lambda 2012, PC, Monitor, Printer



Software Lambda 2012



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