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No.669 Thermal Conductivity Tester Model LS-1



■APPLICATION

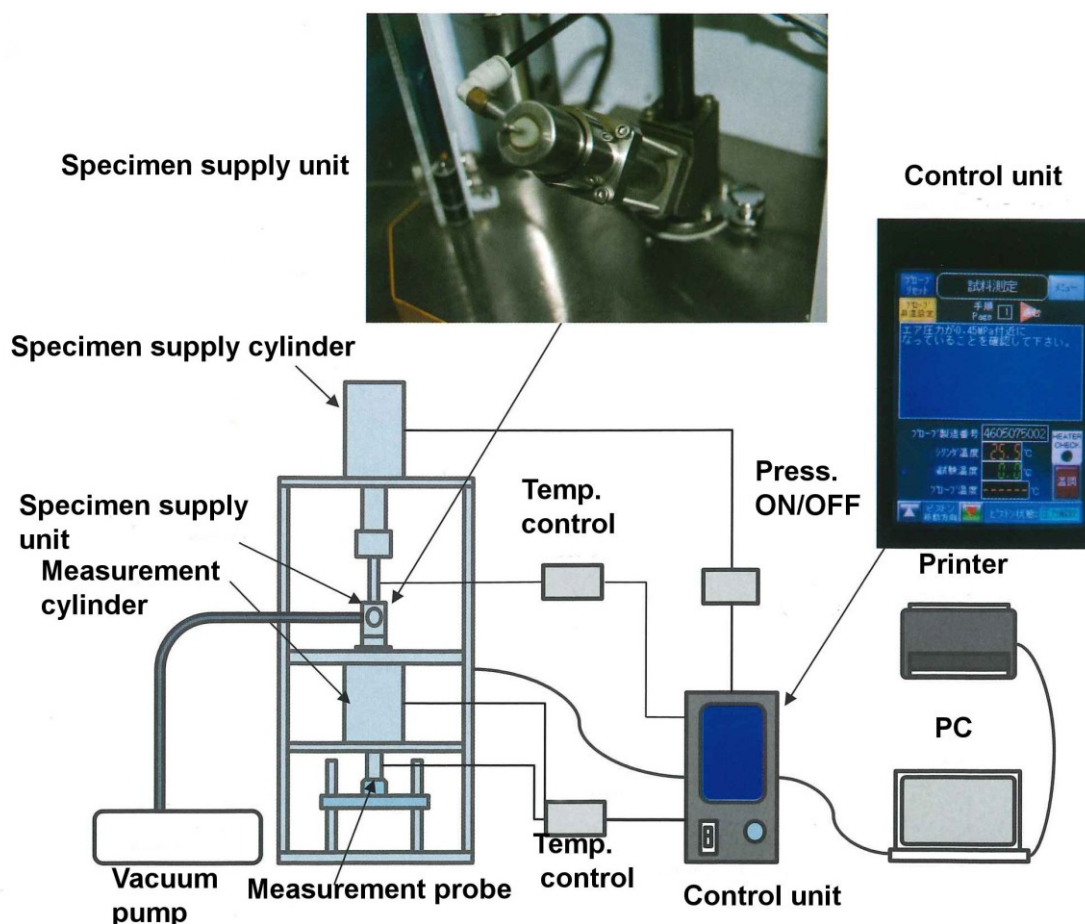
Toyoseiki No.669 Thermal Conductivity Tester measures thermal conductivity of plastic materials during they change from melted state to solid state.

The tester is also capable of measuring the conductivity during it changes from solid state to melted state.

■FEATURES

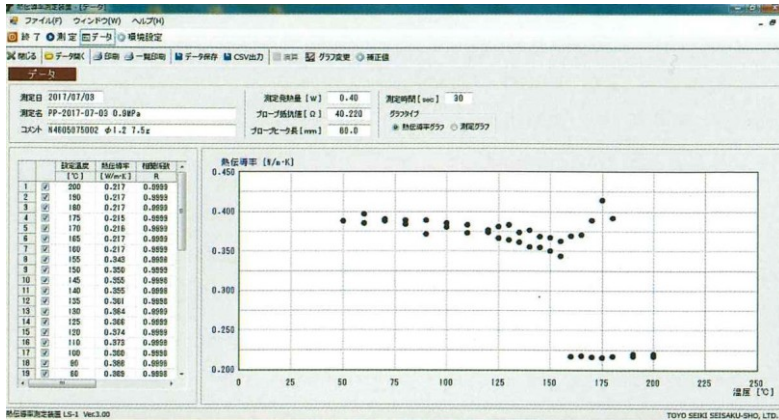
- Once you set specimen, automatic measurement under 50 different temperatures is possible.
- Great measurement accuracy thanks to the probe which heat capacity is minimized.
- Continuous running test is possible because piston heater follows specimen's as it shrinkage due to heat.
- Vacuuming the inside of the cylinder eliminates the concern about mixing of air bubble.
- Piston cylinder can be used for furnace cleaning.

■SYSTEM CONFIGURATION

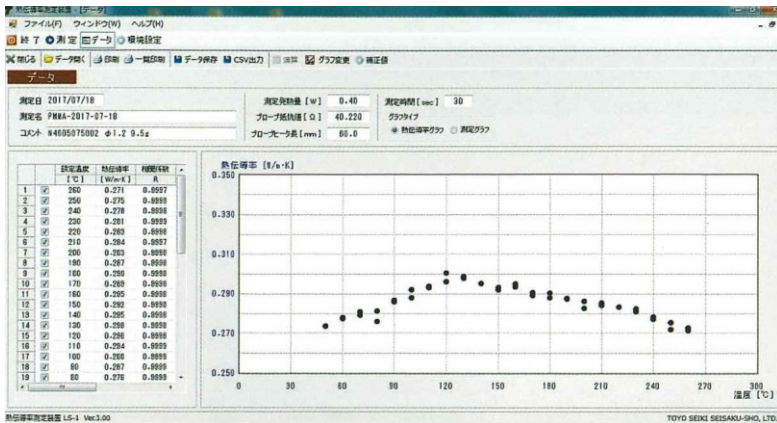


MEASUREMENT EXAMPLES

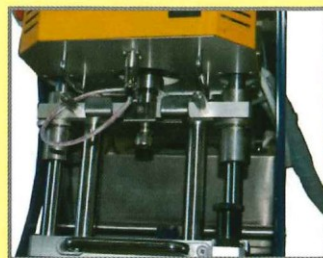
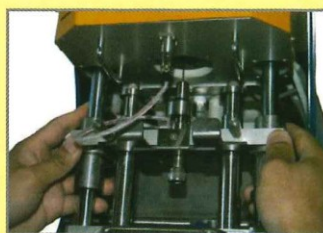
Specimen: PP (Measurement example of crystalline resin)



Specimen: PMMA (Measurement example of Non-crystalline resin)



Tilt the main unit at 45°



Install the measurement probe

■ SPECIFICATIONS

	LS-1
Measurement Cylinder	<ul style="list-style-type: none"> ■ Cylinder diameter: Ø12.5mm ■ Electric heater: 400W ■ Temperature sensor: Pt100 (Resolution 0.1°C)
Probe	<ul style="list-style-type: none"> ■ Probe diameter: Ø1.2mm ■ Probe length: 50mm ■ Temperature sensor: Pt100 (Resolution 0.01°C) ■ Heater output: 0 to 16V, 0 to 400mA <p><i>However, max output 5W, accuracy 0.1% (at test room 25°C)</i></p>
Pressure system	Ø63mm Pneumatic cylinder system (max 2800N)
Measurement temperature range	Max. 350°C
Measurement range	0 to 1.5W/m.k
Cleaning	Pneumatic cylinder (max 2800N)
Specimen supply	Manually
PC	O/S: Windows
Communication system	RS-232C
Electric power requirement	Single-phase, AC100V, 50/60Hz, 1kVA
Compressed air requirement	0.5MPa
Dimensions	W310 x D495 x H690mm (Main unit)
Weight	Approx. 30kg (Main unit) Approx. 6kg (Control unit)

Specifications are subject to change without notice.



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