

OSC 77FD312TH Thermal Conductivity of Non-Metallic Materials

<Features>

- This bench top unit is for testing of thermal conductivity of non-metallic materials using guarded hot plate per ISO8302 and ASTM C-177-04
- The equipment consists of a central heater with hot plates, a guarded ring with heater and hot plates, and two water cooled cold plates
- Two specimens are inserted between the hot plates and cold plates
- The assembly is encased in a test cabinet with insulation
- The cold plates are clamped together to provide a uniform pressure
- Temperature sensors and indicators are provided for hot plates, cold plates, cooling water, and differential temperature between the hot plates and the guard ring plates
- Power input is measured by a voltmeter and an ammeter



<Specifications>

| Model | OSC 77FD 312TH |
|-------------------------|---|
| Hot plate | Copper, 120 mm diameter |
| Guard ring plate | Copper, 240 mm diameter |
| Hot plate heater | 500W with control knob |
| Guard ring heater | 500W with control knob |
| Cold plate | 2 ea copper, 240 mm diameter |
| Specimen | 240mm diameter, maximum thickness 25mm |
| Temperature measurement | Two thermocouples and an indicator for hot plates |
| | Two thermocouples and an indicator for cold plates |
| | Three thermocouples and indicator for cooling water |
| | Four differential thermocouples and an indicator |
| Voltmeter | 0 ~ 500V, 3 1/2 digit |
| Ammeter | 0 ~ 5A, 3 1/2 digit |
| Sample specimen | 2 ea for 3 differential materials |
| Power supply | 220V 1Ph 50Hz. Other power supply is available on request |
| Size (WxLxH) | Approx. 47 x 97 x 42mm |
| Weight | Approx. 41kg |