

Thermo Scientific Thermolyne industrial benchtop muffle furnaces

Rugged design with multiple safety features and choice of two temperature control options

- Thermo Scientific Thermolyne Industrial Benchtop Muffle Furnaces
- Reaches 1200°C maximum temperature
- Heavy-duty firebrick insulation designed to surround the opening for added durability
- Adjustable alarm or over-temperature protection (OTP) setting can be used to protect the furnace or loaded chamber from excessive heat
- Thermocouple break protection cuts power to the heating elements, preventing a thermocouple failure runaway condition
- Counter-weighted door swings upward, directing heat away from operator
- Four individual embedded elements in special refractory cement permit excellent heat distribution in the chamber
- Door safety switch protects operator by removing power to the heating elements upon opening the door
- Rear-mounted 0.38in. (0.95cm) diameter port for monitoring chamber temperatures with independent measuring devices
- LED display simultaneously shows both setpoint and actual furnace temperatures in either °C or °F

Temperature controller options

- Control B1, C1
- See page 6 for control details



Applications

- Heat treatment
- Melting
- Gravimetric analysis

Cat. No.	Capacity	Temp. Range	Interior D x W x H	Exterior L x W x H	Control	Electrical	Shipping Weight	Plug Type
FD1535M	2.2 L (0.08 cu. ft.)	100° to 1200 °C	22.8 x 10.1 x 9.5 cm (9 x 4 x 3.75 in)	45.7 x 27.9 x 41.9 cm (18 x 11 x 16.5 in)	B1	120 V, 50/60 Hz, 18.6 A, 2230 W	23.5 kg (52 Lb.)	No plug, no cable, requires hardwiring
FD1530MCN	2.2 L (0.08 cu. ft.)	100° to 1200 °C	22.8 x 10.1 x 9.5 cm (9 x 4 x 3.75 in)	45.7 x 27.9 x 41.9 cm (18 x 11 x 16.5 in)	B1	240 V, 50/60 Hz, 9.3 A, 2230 W	23.5 kg (52 Lb.)	 16 A,
FD1530M	2.2 L (0.08 cu. ft.)	100° to 1200 °C	22.8 x 10.1 x 9.5 cm (9 x 4 x 3.75 in)	45.7 x 27.9 x 41.9 cm (18 x 11 x 16.5 in)	B1	240 V, 50/60 Hz, 9.3 A, 2230 W	23.5 kg (52 Lb.)	
FD1530M-33	2.2 L (0.08 cu. ft.)	100° to 1200 °C	22.8 x 10.1 x 9.5 cm (9 x 4 x 3.75 in)	45.7 x 27.9 x 41.9 cm (18 x 11 x 16.5 in)	B1	240 V, 50/60 Hz, 6.5 A, 1560 W	23.5 kg (52 Lb.)	
FD1545M	2.2 L (0.08 cu. ft.)	100° to 1200 °C	22.8 x 10.1 x 9.5 cm (9 x 4 x 3.75 in)	45.7 x 27.9 x 41.9 cm (18 x 11 x 16.5 in)	C1	120 V, 50/60 Hz, 18.6 A, 2230 W	23.5 kg (52 Lb.)	No plug, no cable, requires hardwiring
FD1540M*	2.2 L (0.08 cu. ft.)	100° to 1200 °C	22.8 x 10.1 x 9.5 cm (9 x 4 x 3.75 in)	45.7 x 27.9 x 41.9 cm (18 x 11 x 16.5 in)	C1	240 V, 50/60 Hz, 9.3 A, 2230 W	23.5 kg (52 Lb.)	
FD1540M-33	2.2 L (0.08 cu. ft.)	100° to 1200 °C	22.8 x 10.1 x 9.5 cm (9 x 4 x 3.75 in)	45.7 x 27.9 x 41.9 cm (18 x 11 x 16.5 in)	C1	240 V, 50/60 Hz, 6.5 A, 1560 W	12.7 kg (28 Lb.)	

Hearth plates

Cat. No.	For Use With
PHX1	8.2 x 10.1 x 1.27 cm (3.25 x 4 x 0.5 in.)
PHX2	20.3 x 9.6 x 1.9 cm (8 x 3.8 x 0.75 in.)

Includes: Furnace, Platinel® II thermocouple and a ceramic hearth tray (Cat No. PHX2) to protect the bottom heating element

Warranty: 1 year (parts and labor)

Certifications: All units cUL, UL listed

Electrical plug configurations

High temperature in a furnace requires significant power, often requiring a non-standard electrical connection.

Many of our furnaces offer a choice of electrical configurations. Choose the model that best fits your needs and local circuit requirements.

The list below specifies the plug pictures that correspond to the pictures in the furnace spec tables.

Some furnace models are delivered without a plug. As noted in the specification tables, these models require hardwiring by a technician.	
US plug: Nema 5-15	
US plug: Nema 6-15	
US plug: Nema 5-20	
US plug: Nema 6-20	
EU plug: CEE 7/7	
UK plug: BS1363	
China plug: 10A	
China plug: 16A	
Swiss plug: SEV1011	

Find out more at thermofisher.com/furnaces

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