

# Furnaces

## Thermolyne Premium Large Muffle Furnaces

Robust design and choice of four temperature controllers, ideal for industrial applications including ashing organic and inorganic samples and conducting gravimetric analysis



**Includes:** Models F6010 and F6018 include a cord and plug set  
**Required Accessories:** All models except F6010 and F6018 require hardwiring  
**Certifications:** All units CSA approved, -33 units also CE marked

- Spacious 14L (0.5 cu. ft.) capacity and reaches a maximum of 1200°C
- Four heating elements are located on the chamber top, bottom and sides for enhanced temperature uniformity
- Built-in vent port removes undesirable contaminants and moisture to extend the life of the element and unit
- Rear of the chamber incorporates a 0.312 in. diameter port for monitoring chamber temperatures with independent measuring devices
- Optional stainless-steel shelf doubles load capacity (maximum temperature of 900°C)
- Door safety switch stops power to heating elements when door opens
- Thermocouple break protection cuts power to the heating elements, preventing a thermocouple failure runaway condition
- Furnaces with B1, C1, and D1 control also use a mechanical over-temperature protection relay

### Choice of Temperature Controllers

- A1: Digital single setpoint control; single display shows actual temperature or setpoint
- B1: Digital single setpoint control with single ramp to setpoint and a dwell; single display shows actual temperature or setpoint
- C1: Digital programmable control with one stored program of eight segments
- D1: Digital programmable control with four stored programmes, 16 segments per programme and Controller includes RS-232 communications

Cat. No.	Capacity	Temp. Range	Temp. Stability/ Uniformity at 1000°C	Interior D x W x H	Exterior L x W x H	Control	Electrical	Shipping Weight
F6020C-33	14L (0.5 cu.ft.)	100° to 1200°C (212° to 2192°F)	±1.5°C ±4.5°C	25 x 33 x 18cm (10 x 12.8 x 6.8in.)	51 x 48.5 x 53.3cm (20.1 x 19.1 x 21in.)	B1	240V 50/60Hz 18.3A 4400w	60.8kg (134 lb.)
F6020C-33-80	14L (0.5 cu.ft.)	100° to 1200°C (212° to 2192°F)	±1.5°C ±4.5°C	25 x 33 x 18cm (10 x 12.8 x 6.8in.)	51 x 48.5 x 53.3cm (20.1 x 19.1 x 21in.)	C1	240V 50/60Hz 18.3A 4400w	60.8kg (134 lb.)
F6030CM-33	14L (0.5 cu.ft.)	100° to 1200°C (212° to 2192°F)	±1.5°C ±4.5°C	25 x 33 x 18cm (10 x 12.8 x 6.8in.)	51 x 48.5 x 53.3cm (20.1 x 19.1 x 21in.)	D1	240V 50/60Hz 18.3A 4400w	60.8kg (134 lb.)

### Accessories

Cat. No.	Description
JSX16	Shelf Pegs (4 required)
PH177X1	Hearth Tray, 22.9 x 27.3 x 1.9cm (one per chamber floor)
PHX1	Hearth Tray, 8.2 x 10.1 x 1.27cm (up to 9 per chamber floor in 3x3 pattern)
SH408X1	Stainless-steel Shelf (requires 4 shelf pegs)

### Even heat distribution and economical operation in a small footprint



- Outstanding insulation and heating element arrangement give even heat distribution with minimal fluctuation
- Two-shell design with air pocket between annealing box and outside walls
- Requires only 0.41 sq m of bench space
- Rugged and flexible — for all types of lab applications, including heating of metals and drying at high temperatures
- Multiple layers of high-quality, asbestos-free ceramic fiber insulation
- Heating elements safely positioned in grooved blocks on side walls of the work space, covered with ceramic plates
- Hinged door designed with parallel forced guidance system — hot surface always faces away from user when door is open
- Adjustable upper limit cut-out protects samples and equipment
- Reaches 1100°C in 100 min.

**Ordering Alerts:** Models available with optional 24 hr. timer, Thermicon P digital programme controller with microprocessor, exhaust fan and/or exhaust flue. Exhaust flue (50006394) and tray (50006408) available separately  
**Certifications:** CE

Cat. No.	Description	Capacity	Max. Temp.	Temp. Uniformity	Chamber Dimensions (D x W x H)	Exterior Dimensions (D x W x H)	Heat	Electrical Output	Shipping Weight
51010272	With electronic controller and upper limit cut-out	9L (0.32 cu. ft.)	1100°C	±7°K	30 x 20 x 15cm (11.8 x 7.9 x 5.9in)	72 x 57.6 x 75.2cm (28.4 x 22.7 x 29.6in)	2.9kW	230V 50/60Hz 1400W	78kg (172 lb.)
50057440	With electronic controller, upper limit cut-out and 24-hr. timer	9L (0.32 cu. ft.)	1100°C	±7°K	30 x 20 x 15cm (11.8 x 7.9 x 5.9in)	72 x 57.6 x 75.2cm (28.4 x 22.7 x 29.6in)	2.9kW	230V 50/60Hz 1400W	78kg (172 lb.)
51000808	With digital program controller, upper limit cut-out, exhaust fan and flue	9L (0.32 cu. ft.)	1100°C	±7°K	30 x 20 x 15cm (11.8 x 7.9 x 5.9in)	72 x 57.6 x 75.2cm (28.4 x 22.7 x 29.6in)	2.9kW	230V 50/60Hz 1400W	78kg (172 lb.)
50056360	With electronic controller, upper limit cut-out, 24-hour timer and exhaust fan	9L (0.32 cu. ft.)	1100°C	±7°K	30 x 20 x 15cm (11.8 x 7.9 x 5.9in)	72 x 57.6 x 75.2cm (28.4 x 22.7 x 29.6in)	2.9kW	230V 50/60Hz 1400W	78kg (172 lb.)
51000802	With digital program controller and upper limit cut-out	9L (0.32 cu. ft.)	1100°C	±7°K	30 x 20 x 15cm (11.8 x 7.9 x 5.9in)	72 x 57.6 x 75.2cm (28.4 x 22.7 x 29.6in)	2.9kW	230V 50/60Hz 1400W	78kg (172 lb.)

### Accessories M104, K114, M110 Muffle Furnaces

Cat. No.	Description	For Use With
50040537	Exhaust Flue	K114 Chamber Furnace and M104 Muffle Furnace
50040492	Tray	K114 Chamber Furnace and M104 Muffle Furnace
50006394	Exhaust Flue	M110 Muffle Furnace
50006408	Tray	M110 Muffle Furnace

#### Factory-Installed Options

50044447	Calibration Certificate for 900°C at center of work space
50044188	Calibration, Additional Measuring Point