

Fast heatup and excellent energy efficiency — ideal for ashing most types of organic and inorganic samples, heat treating small steel parts, performing ignition tests, conducting gravimetric analysis and for the determination of volatile and suspended solids



- Available in two capacities and reaches a maximum temperature of 1100°C
- Digital single setpoint temperature control to 1100°C
- Single display shows actual temperature or setpoint
- Ceramic fibre insulation permits faster heatup, reducing energy consumption
- Embedded heating element on top and both sides improves temperature uniformity
- Drop-down door doubles as a shelf for loading and unloading
- Door safety switch stops power to heating elements when door is opened
- Thermocouple break protection cuts power to heating elements, preventing failure runaway condition
- 0.95cm (0.38in.) diameter port in chamber rear for monitoring temperatures with independent measuring devices

Ordering Information: Replacement heating elements and thermocouples available separately

Includes: Thermocouple, line cord, and 1 hearth tray

Certifications: All units CSA approved, -33 units also CE marked

Cat. No.	Capacity	Temp. Range	Temp. Stability (Uniformity)	InteriorD x W x H	ExteriorL x W x H	Electrical	Shipping Weight
FB1310M	1.3L (0.04 cu. ft.)	100° to 1100°C	±0.3°C at 1000°C (±7.8°C at 1000°C)	13 x 10.3 x 9.8cm (5 x 4 x 3.8in.)	33 x 23 x 36cm (13 x 9 x 14in.)	240V 50/60Hz 1060w	9kg (20 lb.)
FB1310M-33	1.3L (0.04 cu. ft.)	100° to 1100°C	±0.3°C at 1000°C (±7.8°C at 1000°C)	13 x 10.3 x 9.8cm (5 x 4 x 3.8in.)	33 x 23 x 36cm (13 x 9 x 14in.)	240V 50/60Hz 1060w	9kg (20 lb.)
FB1410M	2.1L (0.07 cu. ft.)	100° to 1100°C	±0.5°C at 1000°C (±5.0°C at 1000°C)	15.2 x 12.7 x 10.8cm (6 x 5 x 4.25in.)	40 x 25 x 37cm (15.8 x 10 x 14.5in.)	240V 50/60Hz 1520w	12.7kg (28 lb.)
FB1410M-33	2.1L (0.07 cu. ft.)	100° to 1100°C	±0.5°C at 1000°C (±5.0°C at 1000°C)	15.2 x 12.7 x 10.8cm (6 x 5 x 4.25in.)	40 x 25 x 37cm (15.8 x 10 x 14.5in.)	240V 50/60Hz 1520w	12.7kg (28 lb.)

Hearth Trays

Cat. No.	For Use With
PH44X1	FB1300 Furnace
PH48X1	FB1400 Muffle Furnace

Furnaces

Thermolyne Small Benchtop Muffle Furnaces

Ideal for general laboratory use, including gravimetric analysis, sintering, quantitative analysis and heat treating



Includes: Power cord and one hearth tray, F48000 models also include a ceramic shelf (SH480X1)

Certifications: CSA approved, CE marked as indicated

- Reaches a 1200°C maximum temperature
- Available in two capacities for added flexibility
- Built-in vent port removes contaminants and moisture to extend the life of the heating element and furnace
- For added protection, the door safety switch stops power to heating elements when door opens
- Thermocouple break protection cuts power to heating elements, preventing a thermocouple failure runaway condition
- Two open coil heating elements on chamber sides assure fast heat-up with minimum temperature gradient
- Thermal-efficient ceramic insulation surrounds chamber for maximum energy efficiency
- 0.312in. dia. port for monitoring chamber temperatures with independent measuring device at rear of chamber

F47900, F48000 Models

- F47900 models have 2L chamber capacity, F48000 models have 5L chamber capacity

Choice of Temperature Controllers

- Furnaces that use B, C or D control also use a mechanical over-temperature protection relay
- A1: Digital single setpoint control; single display shows actual temperature or setpoint
- B1: Digital single setpoint control with a single ramp to setpoint and a dwell; single display shows actual temperature or setpoint; mechanical over-temperature protection relay is included
- C1: Digital programmable control with one stored program of 8 segments; mechanical over-temperature protection relay is included
- D1: Digital programmable control with 4 stored programs, 16 segments per programme, and RS-232 communications interface; mechanical over-temperature protection relay is included

Furnace Models

Cat. No.	Capacity	Temp. Range	Interior D x W x H	Exterior L x W x H	Control	Electrical	Shipping Weight
F47910-33 *	2L (0.07 cu. ft.)	100° to 1200°C (212° to 2192°F)	15 x 13.7 x 10cm (6 x 5 x 4in.)	39 x 28.5 x 47cm (15.5 x 11.3 x 18.5in.)	A1	240V 50/60Hz 1000w 4.2 A	18.5kg (41 lb.)
F48010-33 *	5.8L (0.2 cu. ft.)	100° to 1200°C (212° to 2192°F)	25 x 18 x 13cm (10 x 7 x 5in.)	50 x 34 x 19cm (19.5 x 13.3 x 7.4in.)	A1	240V 50/60Hz 1560w 6.5A	27.2kg (60 lb.)
F47920-33 *	2L (0.07 cu. ft.) ²	100° to 1200°C 12° to 2192°F)	15 x 13.7 x 10cm (6 x 5 x 4in.)	39 x 28.5 x 47cm (15.5 x 11.3 x 18.5in.)	B1	240V 50/60Hz 1000w 4.2A	18.5kg (41 lb.)
F48020-33 *	5.8L (0.2 cu. ft.)	100° to 1200°C 212° to 2192°F)	25 x 18 x 13cm (10 x 7 x 5in.)	50 x 34 x 19cm (19.5 x 13.3 x 7.4in.)	B1	240V 50/60Hz 1560w 6.5A	27.2kg (60 lb.)
F47920-33-80 *	2L (0.07 cu. ft.)	100° to 1200°C (212° to 2192°F)	15 x 13.7 x 10cm (6 x 5 x 4in.)	39 x 28.5 x 47cm (15.5 x 11.3 x 18.5in.)	C1	240V 50/60Hz 1000w 4.2A	18.5kg (41 lb.)
F48020-33-80 *	5.8L (0.2 cu. ft.)	100° to 1200°C (212° to 2192°F)	25 x 18 x 13cm (10 x 7 x 5in.)	50 x 34 x 19cm (19.5 x 13.3 x 7.4in.)	C1	240V 50/60Hz 1800w 6.	27.2kg (60 lb.)
F47950-33 *	2L (0.07 cu. ft.)	100° to 1200°C (212° to 2192°F)	15 x 13.7 x 10cm (6 x 5 x 4in.)	39 x 28.5 x 47cm (15.5 x 11.3 x 18.5in.)	D1	240V 50/60Hz 1000w 4.2A	18.5kg (41 lb.)
F48050-33 *	5.8L (0.2 cu. ft.)	100° to 1200°C (212° to 2192°F)	25 x 18 x 13cm (10 x 7 x 5in.)	50 x 34 x 19cm (19.5 x 13.3 x 7.4in.)	D1	240V 50/60Hz 1800w 6.5A	27.2kg (60 lb.)

* CE marked

Accessories

Cat. No.	Description	For Use With
PH479X1	Hearth Tray, 15.2 x 14.3 x 0.95cm	F47900 Muffle Furnace
SH480X1	Ceramic Shelf, 17.4 x 17.3 x 1.2cm	F48000 Muffle Furnace
PH480X1	Hearth Tray, 25.4 x 19.3 x 0.95cm	F48000 Muffle Furnace
AY408X1A	Stainless Steel Exhaust Tubing Kit, 2.5in. ID x 60in. L	Atmosphere Controlled Ashing and Muffle Furnaces

