Thermo Scientific Thermolyne benchtop muffle furnaces

Reduce energy consumption and increase heatup time

- 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 ; also ideal for ashing applications
- 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
- 0.312 in. dia. port for monitoring chamber temperatures with independent measuring device at rear of chamber

F47900, F48000 models
- F47900 models have 2 L (0.07 cu.ft.) chamber capacity, F48000 models have 5 L (0.2 cu.ft.) chamber capacity
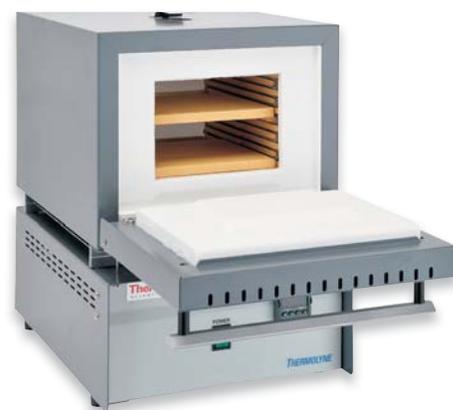
Temperature controller options
- Controls A1, B1, C1, D1
- See page 6 for control details

Applications

General laboratory use including:

- Gravimetric analysis
- Ashing of organic and inorganic samples
- Sintering
- Quantitative analysis
- Heat treating

Accessories

Cat. No.	Description	For Use With
PH479X1	Hearth tray, 15.2 x 14.3 x 0.95 cm	F47900 muffle furnace
SH480X1	Ceramic shelf, 17.4 x 17.3 x 1.2 cm	F48000 muffle furnace
PH480X1	Hearth tray, 25.4 x 19.3 x 0.95 cm	F48000 muffle furnace
AY408X1A	Stainless steel exhaust tubing kit, 2.5 in. ID x 60 in. L	Atmosphere controlled ashing and muffle furnaces

Includes: Power cord and one hearth tray, F48000 models also include a ceramic shelf (SH480X1)
Warranty[v]: 1 year (parts and labor)
Certifications: CSA approved, CE marked as indicated

Cat. No.	Capacity	Temp. Range	Interior D x W, x H	Exterior L x W, x H	Control	Electrical	Shipping Weight	Plug Type
F47910‡	2 L (0.07 cu. ft.)	100° to 1200 °C (212° to 2192 °F)	15 x 13.7 x 10 cm (6 x 5 x 4 in)	39 x 28.5 x 47 cm (15.5 x 11.3 x 18.5 in)	A1	240 V, 50/60 Hz 1000 W, 4.2 A	18.5 kg (41 Lb.)	
F47910-33†	2 L (0.07 cu. ft.)	100° to 1200 °C (212° to 2192 °F)	15 x 13.7 x 10 cm (6 x 5 x 4 in)	39 x 28.5 x 47 cm (15.5 x 11.3 x 18.5 in)	A1	240 V, 50/60 Hz 1000 W, 4.2 A	18.5 kg (41 Lb.)	
F47910-33CN†	2 L (0.07 cu. ft.)	100° to 1200 °C (212° to 2192 °F)	15 x 13.7 x 10 cm (6 x 5 x 4 in)	39 x 28.5 x 47 cm (15.5 x 11.3 x 18.5 in)	A1	240 V, 50/60 Hz 1000 W, 4.2 A	18.5 kg (41 Lb.)	10 A
F47910-33-CH†	2 L (0.07 cu. ft.)	100° to 1200 °C (212° to 2192 °F)	15 x 13.7 x 10 cm (6 x 5 x 4 in)	39 x 28.5 x 47 cm (15.5 x 11.3 x 18.5 in)	A1	240 V, 50/60 Hz 1000 W, 4.2 A	18.5 kg (41 Lb.)	
F47910-33-UK†	2 L (0.07 cu. ft.)	100° to 1200 °C (212° to 2192 °F)	15 x 13.7 x 10 cm (6 x 5 x 4 in)	39 x 28.5 x 47 cm (15.5 x 11.3 x 18.5 in)	A1	240 V, 50/60 Hz 1000 W, 4.2 A	18.5 kg (41 Lb.)	
F47914	2 L (0.07 cu. ft.)	100° to 1200 °C (212° to 2192 °F)	15 x 13.7 x 10 cm (6 x 5 x 4 in)	39 x 28.5 x 47 cm (15.5 x 11.3 x 18.5 in)	A1	100 V, 50/60 Hz 750 W, 7.5 A	18.5 kg (41 Lb.)	
F47915‡	2 L (0.07 cu. ft.)	100° to 1200 °C (212° to 2192 °F)	15 x 13.7 x 10 cm (6 x 5 x 4 in)	39 x 28.5 x 47 cm (15.5 x 11.3 x 18.5 in)	A1	120 V, 50/60 Hz 1000 W, 8.3 A	18.5 kg (41 Lb.)	
F47920‡	2 L (0.07 cu. ft.)	100° to 1200 °C (212° to 2192 °F)	15 x 13.7 x 10 cm (6 x 5 x 4 in)	39 x 28.5 x 47 cm (15.5 x 11.3 x 18.5 in)	B1	240 V, 50/60 Hz 1000 W, 4.2 A	18.5 kg (41 Lb.)	
F47920-33†	2 L (0.07 cu. ft.)	100° to 1200 °C 212° to 2192 °F)	15 x 13.7 x 10 cm (6 x 5 x 4 in)	39 x 28.5 x 47 cm (15.5 x 11.3 x 18.5 in)	B1	240 V, 50/60 Hz 1000 W, 4.2 A	18.5 kg (41 Lb.)	
F47920-33CN†	2 L (0.07 cu. ft.)	100° to 1200 °C 212° to 2192 °F)	15 x 13.7 x 10 cm (6 x 5 x 4 in)	39 x 28.5 x 47 cm (15.5 x 11.3 x 18.5 in)	B1	240 V, 50/60 Hz 1000 W, 4.2 A	18.5 kg (41 Lb.)	10 A
F47920-33-CH†	2 L (0.07 cu. ft.)	100° to 1200 °C 212° to 2192 °F)	15 x 13.7 x 10 cm (6 x 5 x 4 in)	39 x 28.5 x 47 cm (15.5 x 11.3 x 18.5 in)	B1	240 V, 50/60 Hz 1000 W, 4.2 A	18.5 kg (41 Lb.)	
F47920-33-UK†	2 L (0.07 cu. ft.)	100° to 1200 °C 212° to 2192 °F)	15 x 13.7 x 10 cm (6 x 5 x 4 in)	39 x 28.5 x 47 cm (15.5 x 11.3 x 18.5 in)	B1	240 V, 50/60 Hz 1000 W, 4.2 A	18.5 kg (41 Lb.)	
F47924	2 L (0.07 cu. ft.)	100° to 1200 °C 212° to 2192 °F)	15 x 13.7 x 10 cm (6 x 5 x 4 in)	39 x 28.5 x 47 cm (15.5 x 11.3 x 18.5 in)	B1	100 V, 50/60 Hz 750 W, 7.5 A	18.5 kg (41 Lb.)	
F47925	2 L (0.07 cu. ft.)	100° to 1200 °C 212° to 2192 °F)	15 x 13.7 x 10 cm (6 x 5 x 4 in)	39 x 28.5 x 47 cm (15.5 x 11.3 x 18.5 in)	B1	120 V, 50/60 Hz 1000 W, 8.3 A	18.5 kg (41 Lb.)	
F47920-80	2 L (0.07 cu. ft.)	100° to 1200 °C 212° to 2192 °F)	15 x 13.7 x 10 cm (6 x 5 x 4 in)	39 x 28.5 x 47 cm (15.5 x 11.3 x 18.5 in)	C1	240 V, 50/60 Hz 1000 W, 4.2 A	18.5 kg (41 Lb.)	
F47920-33-80†	2 L (0.07 cu. ft.)	100° to 1200 °C (212° to 2192 °F)	15 x 13.7 x 10 cm (6 x 5 x 4 in)	39 x 28.5 x 47 cm (15.5 x 11.3 x 18.5 in)	C1	240 V, 50/60 Hz 1000 W, 4.2 A	18.5 kg (41 Lb.)	
F47920-33-80CN	2 L (0.07 cu. ft.)	100° to 1200 °C (212° to 2192 °F)	15 x 13.7 x 10 cm (6 x 5 x 4 in)	39 x 28.5 x 47 cm (15.5 x 11.3 x 18.5 in)	C1	240 V, 50/60 Hz 1000 W, 4.2 A	18.5 kg (41 Lb.)	
F47920-33-80-CH	2 L (0.07 cu. ft.)	100° to 1200 °C (212° to 2192 °F)	15 x 13.7 x 10 cm (6 x 5 x 4 in)	39 x 28.5 x 47 cm (15.5 x 11.3 x 18.5 in)	C1	240 V, 50/60 Hz 1000 W, 4.2 A	18.5 kg (41 Lb.)	
F47920-33-80-UK	2 L (0.07 cu. ft.)	100° to 1200 °C (212° to 2192 °F)	15 x 13.7 x 10 cm (6 x 5 x 4 in)	39 x 28.5 x 47 cm (15.5 x 11.3 x 18.5 in)	C1	240 V, 50/60 Hz 1000 W, 4.2 A	18.5 kg (41 Lb.)	
F47924-80	2 L (0.07 cu. ft.)	100° to 1200 °C 212° to 2192 °F)	15 x 13.7 x 10 cm (6 x 5 x 4 in)	39 x 28.5 x 47 cm (15.5 x 11.3 x 18.5 in)	C1	100 V, 50/60 Hz 750 W, 7.5 A	18.5 kg (41 Lb.)	
F47925-80	2 L (0.07 cu. ft.)	100° to 1200 °C 212° to 2192 °F)	15 x 13.7 x 10 cm (6 x 5 x 4 in)	39 x 28.5 x 47 cm (15.5 x 11.3 x 18.5 in)	C1	120 V, 50/60 Hz 1000 W, 8.3 A	18.5 kg (41 Lb.)	
F47950‡	2 L (0.07 cu. ft.)	100° to 1200 °C (212° to 2192 °F)	15 x 13.7 x 10 cm (6 x 5 x 4 in)	39 x 28.5 x 47 cm (15.5 x 11.3 x 18.5 in)	D1	240 V, 50/60 Hz 1000 W, 4.2 A	18.5 kg (41 Lb.)	
F47950-33†	2 L (0.07 cu. ft.)	100° to 1200 °C (212° to 2192 °F)	15 x 13.7 x 10 cm (6 x 5 x 4 in)	39 x 28.5 x 47 cm (15.5 x 11.3 x 18.5 in)	D1	240 V, 50/60 Hz 1000 W, 4.2 A	18.5 kg (41 Lb.)	
F47950-33CN	2 L (0.07 cu. ft.)	100° to 1200 °C (212° to 2192 °F)	15 x 13.7 x 10 cm (6 x 5 x 4 in	39 x 28.5 x 47 cm (15.5 x 11.3 x 18.5 in)	D1	240 V, 50/60 Hz 1000 W, 4.2 A	18.5 kg (41 Lb.)	
F47950-33-CH	2 L (0.07 cu. ft.)	100° to 1200 °C (212° to 2192 °F)	15 x 13.7 x 10 cm (6 x 5 x 4 in	39 x 28.5 x 47 cm (15.5 x 11.3 x 18.5 in)	D1	240 V, 50/60 Hz 1000 W, 4.2 A	18.5 kg (41 Lb.)	
F47950-33-UK	2 L (0.07 cu. ft.)	100° to 1200 °C (212° to 2192 °F)	15 x 13.7 x 10 cm (6 x 5 x 4 in	39 x 28.5 x 47 cm (15.5 x 11.3 x 18.5 in)	D1	240 V, 50/60 Hz 1000 W, 4.2 A	18.5 kg (41 Lb.)	
F47954	2 L (0.07 cu. ft.)	100° to 1200 °C (212° to 2192 °F)	15 x 13.7 x 10 cm (6 x 5 x 4 in)	39 x 28.5 x 47 cm (15.5 x 11.3 x 18.5 in)	D1	100 V, 50/60 Hz 750 W, 7.5 A	18.5 kg (41 Lb.)	
F47955	2 L (0.07 cu. ft.)	100° to 1200 °C (212° to 2192 °F)	15 x 13.7 x 10 cm (6 x 5 x 4 in)	39 x 28.5 x 47 cm (15.5 x 11.3 x 18.5 in)	D1	120 V, 50/60 Hz 1000 W, 8.3 A	18.5 kg (41 Lb.)	
F48010‡	5.8 L (0.2 cu. ft.)	100° to 1200 °C (212° to 2192 °F)	25 x 18 x 13 cm (10 x 7 x 5 in)	50 x 34 x 19 cm (19.5 x 13.3 x 19 in)	A1	240 V, 50/60 Hz 1800 W, 7.5 A	27.2 kg (60 Lb.)	
F48010-33†	5.8 L (0.2 cu. ft.)	100° to 1200 °C (212° to 2192 °F)	25 x 18 x 13 cm (10 x 7 x 5 in)	50 x 34 x 19 cm (19.5 x 13.3 x 19 in)	A1	240 V, 50/60 Hz 1560 W, 6.5 A	27.2 kg (60 Lb.)	

Cat. No.	Capacity	Temp. Range	Interior D x W, x H	Exterior L x W, x H	Control	Electrical	Shipping Weight	Plug Type
F48010-33CN[†]	5.8 L (0.2 cu. ft.)	100° to 1200 °C (212° to 2192 °F)	25 x 18 x 13 cm (10 x 7 x 5 in)	50 x 34 x 19 cm (19.5 x 13.3 x 19 in)	A1	240 V, 50/60 Hz 1560 W, 6.5 A	27.2 kg (60 Lb.)	
F48010-33-CH[†]	5.8 L (0.2 cu. ft.)	100° to 1200 °C (212° to 2192 °F)	25 x 18 x 13 cm (10 x 7 x 5 in)	50 x 34 x 19 cm (19.5 x 13.3 x 19 in)	A1	240 V, 50/60 Hz 1560 W, 6.5 A	27.2 kg (60 Lb.)	
F48010-33-UK[†]	5.8 L (0.2 cu. ft.)	100° to 1200 °C (212° to 2192 °F)	25 x 18 x 13 cm (10 x 7 x 5 in)	50 x 34 x 19 cm (19.5 x 13.3 x 19 in)	A1	240 V, 50/60 Hz 1560 W, 6.5 A	27.2 kg (60 Lb.)	
F48015-60[‡]	5.8 L (0.2 cu. ft.)	100° to 1200 °C (212° to 2192 °F)	25 x 18 x 13 cm (10 x 7 x 5 in)	50 x 34 x 19 cm (19.5 x 13.3 x 19 in)	A1	120 V, 50/60 Hz 1800 W, 15 A	27.2 kg (60 Lb.)	
F48018[‡]	5.8 L (0.2 cu. ft.)	100° to 1200 °C (212° to 2192 °F)	25 x 18 x 13 cm (10 x 7 x 5 in)	50 x 34 x 19 cm (19.5 x 13.3 x 19 in)	A1	208 V, 50/60 Hz 1560 W, 7.5 A	27.2 kg (60 Lb.)	
F48020 -DB[‡]	5.8 L (0.2 cu. ft.)	100° to 1200 °C 212° to 2192 °F)	25 x 18 x 13 cm (10 x 7 x 5 in)	50 x 34 x 19 cm (19.5 x 13.3 x 19 in)	B1	240 V, 50/60 Hz 1800 W, 7.5 A	18.5 kg (41 Lb.)	
F48020-33[†]	5.8 L (0.2 cu. ft.)	100° to 1200 °C 212° to 2192 °F)	25 x 18 x 13 cm (10 x 7 x 5 in)	50 x 34 x 19 cm (19.5 x 13.3 x 19 in)	B1	240 V, 50/60 Hz 1560 W, 6.5 A	27.2 kg (60 Lb.)	
F48020-33-80CN	5.8 L (0.2 cu. ft.)	100° to 1200 °C 212° to 2192 °F)	25 x 18 x 13 cm (10 x 7 x 5 in)	50 x 34 x 19 cm (19.5 x 13.3 x 19 in)	B1	240 V, 50/60 Hz 1560 W, 6.5 A	27.2 kg (60 Lb.)	
F48020-33CN[†]	5.8 L (0.2 cu. ft.)	100° to 1200 °C 212° to 2192 °F)	25 x 18 x 13 cm (10 x 7 x 5 in)	50 x 34 x 19 cm (19.5 x 13.3 x 19 in)	B1	240 V, 50/60 Hz 1560 W, 6.5 A	27.2 kg (60 Lb.)	
F48020-33-CH[†]	5.8 L (0.2 cu. ft.)	100° to 1200 °C 212° to 2192 °F)	25 x 18 x 13 cm (10 x 7 x 5 in)	50 x 34 x 19 cm (19.5 x 13.3 x 19 in)	B1	240 V, 50/60 Hz 1560 W, 6.5 A	27.2 kg (60 Lb.)	
F48020-33-UK[†]	5.8 L (0.2 cu. ft.)	100° to 1200 °C 212° to 2192 °F)	25 x 18 x 13 cm (10 x 7 x 5 in)	50 x 34 x 19 cm (19.5 x 13.3 x 19 in)	B1	240 V, 50/60 Hz 1560 W, 6.5 A	27.2 kg (60 Lb.)	
F48028[‡]	5.8 L (0.2 cu. ft.)	100° to 1200 °C (212° to 2192 °F)	25 x 18 x 13 cm (10 x 7 x 5 in)	50 x 34 x 19 cm (19.5 x 13.3 x 19 in)	B1	208 V, 50/60 Hz 1560 W, 7.5 A	27.2 kg (60 Lb.)	
F48025-60[‡]	5.8 L (0.2 cu. ft.)	100° to 1200 °C (212° to 2192 °F)	25 x 18 x 13 cm (10 x 7 x 5 in)	50 x 34 x 19 cm (19.5 x 13.3 x 19 in)	B1	120 V, 50/60 Hz 1800 W, 15.0 A	27.2 kg (60 Lb.)	
F48020-80	5.8 L (0.2 cu. ft.)	100° to 1200 °C (212° to 2192 °F)	25 x 18 x 13 cm (10 x 7 x 5 in)	50 x 34 x 48.3 cm (19.5 x 13.3 x 19 in)	C1	240 V, 50/60 Hz 1800 W, 7.5 A	27.2 kg (60 Lb.)	
F48024-80	5.8 L (0.2 cu. ft.)	100° to 1200 °C (212° to 2192 °F)	25 x 18 x 13 cm (10 x 7 x 5 in)	50 x 34 x 48.3 cm (19.5 x 13.3 x 19 in)	C1	100 V, 50/60 Hz 1450 W, 14.5 A	18.5 kg (41 Lb.)	
F48020-33-80[†]	5.8 L (0.2 cu. ft.)	100° to 1200 °C (212° to 2192 °F)	25 x 18 x 13 cm (10 x 7 x 5 in)	50 x 34 x 48.3 cm (19.5 x 13.3 x 19 in)	C1	240 V, 50/60 Hz 1800 W, 6.5 A	27.2 kg (60 Lb.)	
F48020-33-80CN	5.8 L (0.2 cu. ft.)	100° to 1200 °C (212° to 2192 °F)	25 x 18 x 13 cm (10 x 7 x 5 in)	50 x 34 x 48.3 cm (19.5 x 13.3 x 19 in)	C1	240 V, 50/60 Hz 1800 W, 6.5 A	27.2 kg (60 Lb.)	
F48020-33-80-CH	5.8 L (0.2 cu. ft.)	100° to 1200 °C (212° to 2192 °F)	25 x 18 x 13 cm (10 x 7 x 5 in)	50 x 34 x 48.3 cm (19.5 x 13.3 x 19 in)	C1	240 V, 50/60 Hz 1800 W, 6.5 A	27.2 kg (60 Lb.)	
F48020-33-80-UK	5.8 L (0.2 cu. ft.)	100° to 1200 °C (212° to 2192 °F)	25 x 18 x 13 cm (10 x 7 x 5 in)	50 x 34 x 48.3 cm (19.5 x 13.3 x 19 in)	C1	240 V, 50/60 Hz 1800 W, 6.5 A	27.2 kg (60 Lb.)	
F48025-60-80[‡]	5.8 L (0.2 cu. ft.)	100° to 1200 °C (212° to 2192 °F)	25 x 18 x 13 cm (10 x 7 x 5 in)	50 x 34 x 48.3 cm (19.5 x 13.3 x 19 in)	C1	120 V, 50/60 Hz 1800 W, 15.0 A	27.2 kg (60 Lb.)	
F48028-80	5.8 L (0.2 cu. ft.)	100° to 1200 °C (212° to 2192 °F)	25 x 18 x 13 cm (10 x 7 x 5 in)	50 x 34 x 48.3 cm (19.5 x 13.3 x 19 in)	C1	208 V, 50/60 Hz 1560 W, 7.5 A	27.2 kg (60 Lb.)	
F48050-33[†]	5.8 L (0.2 cu. ft.)	100° to 1200 °C (212° to 2192 °F)	25 x 18 x 13 cm (10 x 7 x 5 in)	50 x 34 x 48.3 cm (19.5 x 13.3 x 19 in)	D1	240 V, 50/60 Hz 1800 W, 6.5 A	27.2 kg (60 Lb.)	
F48050-33CN	5.8 L (0.2 cu. ft.)	100° to 1200 °C (212° to 2192 °F)	25 x 18 x 13 cm (10 x 7 x 5 in)	50 x 34 x 48.3 cm (19.5 x 13.3 x 19 in)	D1	240 V, 50/60 Hz 1800 W, 6.5 A	27.2 kg (60 Lb.)	
F48050-33-CH	5.8 L (0.2 cu. ft.)	100° to 1200 °C (212° to 2192 °F)	25 x 18 x 13 cm (10 x 7 x 5 in)	50 x 34 x 48.3 cm (19.5 x 13.3 x 19 in)	D1	240 V, 50/60 Hz 1800 W, 6.5 A	27.2 kg (60 Lb.)	
F48050-33-UK	5.8 L (0.2 cu. ft.)	100° to 1200 °C (212° to 2192 °F)	25 x 18 x 13 cm (10 x 7 x 5 in)	50 x 34 x 48.3 cm (19.5 x 13.3 x 19 in)	D1	240 V, 50/60 Hz 1800 W, 6.5 A	27.2 kg (60 Lb.)	
F48050[‡]	5.8 L (0.2 cu. ft.)	100° to 1200 °C (212° to 2192 °F)	25 x 18 x 13 cm (10 x 7 x 5 in)	50 x 34 x 48.3 cm (19.5 x 13.3 x 19 in)	D1	240 V, 50/60 Hz 1800 W, 7.5 A	27.2 kg (60 Lb.)	
F48055-60[‡]	5.8 L (0.2 cu. ft.)	100° to 1200 °C (212° to 2192 °F)	25 x 18 x 13 cm (10 x 7 x 5 in)	50 x 34 x 48.3 cm (19.5 x 13.3 x 19 in)	D1	120 V, 50/60 Hz 1800 W, 15.0 A	27.2 kg (60 Lb.)	
F48058[‡]	5.8 L (0.2 cu. ft.)	100° to 1200 °C (212° to 2192 °F)	25 x 18 x 13 cm (10 x 7 x 5 in)	50 x 34 x 48.3 cm (19.5 x 13.3 x 19 in)	D1	208 V, 50/60 Hz 1560 W, 7.5 A	27.2 kg (60 Lb.)	

[†] CE marked; [‡] CSA listed