

# Thermo Scientific Thermolyne largest tabletop muffle furnaces

Large chamber for spacious samples or high sample volumes

- Triple the work area using two supplied accessory refractory shelves with optional hearth tray
- Advanced LED digital-set/digital-display temperature controller is microprocessor-controlled
- LED display simultaneously shows both setpoint and actual furnace temperatures in °C or °F
- User-selectable over-temperature protection
- Open thermocouple protection
- Chamber has five shelf positions, two shelves supplied
- Built-in vent port removes undesirable contaminants and moisture to extend the life of the element and unit
- Rear of chamber incorporates a 0.25 in. diameter port for monitoring chamber temperatures with independent measuring devices
- Critical electronic components and heating elements are protected by a 35A circuit breaker
- Door safety switch stops power to the heating elements when door opens

## Safety and design features

- Heating elements are on chamber top, bottom and sides for enhanced temperature uniformity

## Choice of temperature controllers

- Controls B1, C1, D1
- See page 6 for control details



## Applications

- Gravimetric analysis
- Sintering
- Quantitative analysis
- Heat treatment

Cat. No.	Capacity	Temp. Range	Temp. Stability and Uniformity	Interior D x W x H	Exterior L x W x H	Control	Electrical	Shipping Weight	Plug Type
F30428C	45 L (1.6 cu. ft.)	100° to 1093 °C	±1.2 °C at 1000 °C ±3.45 °C	36 x 36 x 36 cm (14 x 14 x 14 in)	64.7 x 54.6 x 74.9 cm (25.5 x 21.5 x 29.5 in)	B1	208 V, 50/60 Hz 26.4 A, 5500 W	117.9 kg (260 Lb.)	No plug, no cable, requires hardwiring
F30420C	45 L (1.6 cu. ft.)	100° to 1093 °C	±1.2 °C at 1000 °C ±3.45 °C	36 x 36 x 36 cm (14 x 14 x 14 in)	64.7 x 54.6 x 74.9 cm (25.5 x 21.5 x 29.5 in)	B1	240 V, 50/60 Hz 22.9 A, 5500 W	117.9 kg (260 Lb.)	No plug, no cable, requires hardwiring
F30420C-33	45 L (1.6 cu. ft.)	100° to 1093 °C	±1.2 °C at 1000 °C ±3.45 °C	36 x 36 x 36 cm (14 x 14 x 14 in)	64.7 x 54.6 x 74.9 cm (25.5 x 21.5 x 29.5 in)	B1	240 V, 50/60 Hz 22.9 A, 5500 W	117.9 kg (260 Lb.)	No plug, no cable, requires hardwiring
F30428C-80	45 L (1.6 cu. ft.)	100° to 1093 °C	±1.2 °C at 1000 °C ±3.45 °C	36 x 36 x 36 cm (14 x 14 x 14 in)	64.7 x 54.6 x 74.9 cm (25.5 x 21.5 x 29.5 in)	C1	208 V, 50/60 Hz 26.4 A, 5500 W	117.9 kg (260 Lb.)	No plug, no cable, requires hardwiring
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F30438CM	45 L (1.6 cu. ft.)	100° to 1093 °C	±1.2 °C at 1000 °C ±3.45 °C	36 x 36 x 36 cm (14 x 14 x 14 in)	64.7 x 54.6 x 74.9 cm (25.5 x 21.5 x 29.5 in)	D1	208 V, 50/60 Hz 26.4 A, 5500 W	117.9 kg (260 Lb.)	No plug, no cable, requires hardwiring
F30430CM	45 L (1.6 cu. ft.)	100° to 1093 °C	±1.2 °C at 1000 °C ±3.45 °C	36 x 36 x 36 cm (14 x 14 x 14 in)	64.7 x 54.6 x 74.9 cm (25.5 x 21.5 x 29.5 in)	D1	240 V, 50/60 Hz 22.9 A, 5500 W	117.9 kg (260 Lb.)	No plug, no cable, requires hardwiring
F30430CM-33	45 L (1.6 cu. ft.)	100° to 1093 °C	±1.2 °C at 1000 °C ±3.45 °C	36 x 36 x 36 cm (14 x 14 x 14 in)	64.7 x 54.6 x 74.9 cm (25.5 x 21.5 x 29.5 in)	D1	240 V, 50/60 Hz 22.9 A, 5500 W	117.9 kg (260 Lb.)	No plug, no cable, requires hardwiring

## Hearth trays

Cat. No.	Description	D x W x H
PH146X1	Hearth tray	17.1 x 14.9 x 1.9 cm (6.75 x 5.9 x 0.75 in)
SH412X1	Shelf - max weight 11.3 kg (25 lbs)	35.2 x 25.4 x 1.27 cm (13.87 x 10 x 0.56 in)
AY408X1A	Exhaust tubing kit	—

**Warranty:** 1 year (parts and labor)

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

**Includes:** Two accessory refractory shelves; all models require hardwiring