

Thermo Scientific™ Thermolyne™ Benchtop Muffle Furnaces

Achieve better control with programmable operation

Single set point models feature digital temperature control. LED displays chamber temperature continuously; displays set point at touch of a button. Single set point (SSP) models let you monitor both set point and actual chamber temperatures. Choose an 8-segment controller (four ramp and four dwell) with additional programming capabilities, and oven temperature protection relay.

Furnaces with 350 cubic-inch chambers include a ceramic shelf to double your capacity. A safety interlock switch disconnects power to heating elements when door is opened. Models 02053-16, and -18 feature a single set point controller with one ramp and one dwell, and an overtemperature protection delay.



Muffle Furnaces

Specifications

Temperature control accuracy: $\pm 3^{\circ}\text{C}$



| Control type | Operating temperature range | Capacity cu in. (L) | Dimensions (W x H x D) | | Temp uniformity (at 1000°C) | Rise time (to 1200°C) | Watts | 120 VAC, 50/60 Hz | | 240 VAC, 50/60 Hz | |
|------------------------|-----------------------------|---------------------|-------------------------|-------------------------|-----------------------------|-----------------------|-------|-----------------------------|-------|-----------------------------|-------|
| | | | Chamber | Overall | | | | Cat. no. | Price | Cat. no. | Price |
| SSP | 100 to 1200°C | 120 (2) | 5" x 4" x 6" | 11¼" x 18" x 15½" | $\pm 4.8^{\circ}\text{C}$ | 72 minutes | 1000 | GH-02053-00 | | GH-02053-02 | |
| 8 segment | 100 to 1200°C | 120 (2) | (12.7 x 10.2 x 15.2 cm) | (28.6 x 45.7 x 39.4 cm) | $\pm 3.6^{\circ}\text{C}$ | 72 minutes | 1000 | GH-02053-13 | | — | — |
| SSP | | | | | | | | GH-02053-12 | | GH-02053-14 | |
| SSP w/ 1 ramp, 1 dwell | 200 to 1200°C | 350 (5.74) | 7" x 5" x 10" | 13¼" x 19" x 19½" | $\pm 3.6^{\circ}\text{C}$ | 80 minutes | 1800 | GH-33903-02 | | GH-02053-18 | |

Cole-Parmer® StableTemp™ Muffle Furnaces

Get up to temperature fast

- Reach maximum temperature in as fast as 25 minutes
- Autotune feature helps eliminate temperature overshoot
- Energy efficient insulation keeps exterior safe to touch
- Models available with extensive programming capabilities

StableTemp



The fully embedded heating elements maintain temperature uniformity. A door switch cuts power to the heating elements when the door is opened minimizing your exposure to hot temperatures and extending the life of the heating elements.

Basic Control Furnaces feature a single LED display that toggles between actual and set point temperatures. Single Set Point Control Furnaces have two LED displays to simultaneously display actual and set point temperatures. Programmable Control Furnaces have two LED displays to simultaneously display actual and set point temperatures. These furnaces can store up to 31 programs with up to 126 segments total.†

Specifications

Operating temperature range: 100 to 1100°C Temperature control accuracy: $\pm 1^{\circ}\text{C}$ Temperature uniformity: $\pm 5^{\circ}\text{C}$



| Capacity cu in. (L) | Dimensions (W x H x D) | | Rise time (to 1050°C) | Power | | Shpg wt | | Catalog number | Price |
|--|---|--|-----------------------|--------------------------|-------|---------|------|--|-------|
| | Chamber | Overall | | VAC, Hz | Watts | lb | kg | | |
| Basic control furnaces | | | | | | | | | |
| 323 (5.3) | 6" x 6" x 9" (15.2 x 15.2 x 22.9 cm) | 17" x 21½" x 21" (43.2 x 54.6 x 53.3 cm) | 25 minutes | 120, 50/60 240, 50/60 | 1800 | 110 | 49.9 | GH-33858-00 GH-33858-05 | |
| 1123 (18.4) | 9" x 9" x 14" (22.9 x 22.9 x 35.6 cm) | 21" x 26" x 25¾" (53.3 x 66.0 x 65.4 cm) | 35 minutes | 208/240, 50/60 | 3500 | 150 | 68.1 | GH-33858-10 | |
| 2592 (42.48) | 12" x 12" x 18" (30.5 x 30.5 x 45.7 cm) | 24" x 28" x 30" (61.0 x 71.1 x 76.2 cm) | 45 minutes | 208/240, 50/60 | 5600 | 165 | 74.9 | GH-33858-20 | |
| Single set point control furnaces | | | | | | | | | |
| 323 (1.6) | 6" x 6" x 9" (15.2 x 15.2 x 22.9 cm) | 17" x 21½" x 21" (43.2 x 54.6 x 53.3 cm) | 25 minutes | 120, 50/60 | 1800 | 110 | 49.9 | GH-33858-30 | |
| 1123 (18.4) | 9" x 9" x 14" (22.9 x 22.9 x 35.6 cm) | 21" x 26" x 25¾" (53.3 x 66.0 x 65.4 cm) | 35 minutes | 208/240, 50/60 | 3500 | 150 | 68.1 | GH-33858-40 | |
| 2592 (42.48) | 12" x 12" x 18" (30.5 x 30.5 x 45.7 cm) | 24" x 28" x 30" (61.0 x 71.1 x 76.2 cm) | 45 minutes | 208/240, 50/60 | 5600 | 165 | 74.9 | GH-33858-50 | |
| Programmable control furnaces† | | | | | | | | | |
| 323 (1.6) | 6" x 6" x 9" (15.2 x 15.2 x 22.9 cm) | 17" x 21½" x 21" (43.2 x 54.6 x 53.3 cm) | 25 minutes | 120, 50/60 240, 50/60 | 1800 | 110 | 49.9 | GH-33858-60 GH-33858-65 | |
| 1123 (18.4) | 9" x 9" x 14" (22.9 x 22.9 x 35.6 cm) | 21" x 26" x 25¾" (53.3 x 66.0 x 65.4 cm) | 35 minutes | 208/240, 50/60 | 3500 | 150 | 68.1 | GH-33858-70 | |
| 2592 (42.48) | 12" x 12" x 18" (30.5 x 30.5 x 45.7 cm) | 24" x 28" x 30" (61.0 x 71.1 x 76.2 cm) | 45 minutes | 208/240, 50/60 | 5600 | 165 | 74.9 | GH-33858-80 | |

†Program capacity is dependent on memory (351 byte maximum available). For example: furnaces can store one program with up to 116 segments (using 349 bytes), or four programs with up to 28 segments each (using 340 bytes).

[GH-33858-90 RS-485](#) communications port lets you use furnace with computer. Factory-installed; must be ordered at same time as furnace. Order software separately

[GH-33858-92 Cable](#), 7.6-m L. Required to connect furnace to computer

[GH-33910-52 Cable](#), daisy chain