

# Thermo Scientific Thermolyne atmosphere controlled ashing furnaces

Ideal for coal and coke ashing procedures

- Thermo Scientific Thermolyne atmosphere controlled ashing furnaces
- Reaches 975 °C with the standard stainless-steel manifold and 1093 °C with the optional inconel manifold
- Adjustable gas flowmeter/valve (0-80 L/min.) on front for easy access when adjusting the airflow rate
- Stainless-steel manifold at rear chamber prewarms incoming gases, provides a maximum temperature gradient of only  $\pm 3$  °C at 750 °C
- Chamber rear has a 0.25 in. diameter port for monitoring chamber temperatures with independent measuring devices
- Includes hose barb (in back of chamber) for inert gas line with tubing 0.64 cm (0.25 in.) I.D. and 0.96 cm (0.375 in.) O.D

## Type F6000

- Includes two dual-purpose stainless-steel trays and one handle. Each tray can accommodate 24 (30 mL) porcelain crucibles or 38 (10 mL) quartz crucibles

## Type F6000-80 programmable models

- Meets ASTM® D3174 specifications: 3 to 4 air exchanges per min.
- Typical settings can be programmed: Model F6000 with C1 or C1 control meets ASTM D3174 specifications: 3 to 4 air exchanges per minute - Heating rate of 8 °C/minute to 500 °C, 6 °C/minute, from 500° to 750 °C, Hold at 750 °C for two hours, then turn off automatically



## Choice of temperature controllers

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

## Applications

- Coal and coke ashing procedures

| Cat. No.                     | Capacity          | Max. Temp. | Holds   | Interior D x W x H                   | Exterior L x W x H                     | Control | Electrical           | Plug Type                              |
|------------------------------|-------------------|------------|---|--------------------------------------|--|---------|----------------------|--|
| F6020C-33-60 <sup>†</sup>    | 14 L (0.5 cu.ft.) | 975 °C     | 24 (30 mL) porcelain or 38 (10 mL) quartz crucibles | 25 x 33 x 18 cm (10 x 12.8 x 6.8 in) | 51 x 49 x 53 cm (20 x 19.1 x 21 in)    | B1      | 240 V, 18.3 A 4400 W | No plug, no cable, requires hardwiring |
| F6028C-60 <sup>†</sup>       | 14 L (0.5 cu.ft.) | 975 °C     | 24 (30 mL) porcelain or 38 (10 mL) quartz crucibles | 25 x 33 x 18 cm (10 x 12.8 x 6.8 in) | 51 x 49 x 53 cm (20 x 19.1 x 21 in)    | B1      | 208 V, 19.2 A 4000 W | No plug, no cable, requires hardwiring |
| F6020C-33-60-80 <sup>†</sup> | 14 L (0.5 cu.ft.) | 975 °C     | 24 (30 mL) porcelain or 38 (10 mL) quartz crucibles | 25 x 33 x 18 cm (10 x 12.8 x 6.8 in) | 51 x 49 x 53 cm (20 x 19.1 x 21 in)    | C1      | 240 V, 18.3 A 4400 W | No plug, no cable, requires hardwiring |
| F6028C-60-80                 | 14 L (0.5 cu.ft.) | 975 °C     | 24 (30 mL) porcelain or 38 (10 mL) quartz crucibles | 25 x 33 x 18 cm (10 x 12.8 x 6.8 in) | 51 x 49 x 53 cm (20 x 19.1 x 21 in)    | C1      | 208 V, 19.2 A 4000 W | No plug, no cable, requires hardwiring |
| F6030CM-33-60 <sup>†</sup>   | 14 L (0.5 cu.ft.) | 975 °C     | 24 (30 mL) porcelain or 38 (10 mL) quartz crucibles | 25 x 33 x 18 cm (10 x 12.8 x 6.8 in) | 51 x 49 x 53 cm (20 x 19.1 x 21 in)    | D1      | 240 V, 18.3 A 4400 W | No plug, no cable, requires hardwiring |
| F30420C-60-80 <sup>†</sup>   | 45 L (1.6 cu.ft.) | 975 °C     | 24 (30 mL) porcelain or 38 (10 mL) quartz crucibles | 36 x 36 x 36 cm (14 x 14 x 14 in)    | 65 x 55 x 75 cm (25.5x 21.5 x 29.5 in) | C1      | 240 V, 22.9 A 5500 W | No plug, no cable, requires hardwiring |
| F30420-33-60-80 <sup>†</sup> | 45 L (1.6 cu.ft.) | 975 °C     | 24 (30 mL) porcelain or 38 (10 mL) quartz crucibles | 36 x 36 x 36 cm (14 x 14 x 14 in)    | 65 x 55 x 75 cm (25.5x 21.5 x 29.5 in) | C1      | 240 V, 22.9 A 5500 W | No plug, no cable, requires hardwiring |
| F30428C-60-80 <sup>†</sup>   | 45 L (1.6 cu.ft.) | 975 °C     | 24 (30 mL) porcelain or 38 (10 mL) quartz crucibles | 36 x 36 x 36 cm (14 x 14 x 14 in)    | 65 x 55 x 75 cm (25.5x 21.5 x 29.5 in) | C1      | 208 V, 23.4 A 5500 W | No plug, no cable, requires hardwiring |
| F30430CM-60 <sup>†</sup>     | 45 L (1.6 cu.ft.) | 975 °C     | 24 (30 mL) porcelain or 38 (10 mL) quartz crucibles | 36 x 36 x 36 cm (14 x 14 x 14 in)    | 65 x 55 x 75 cm (25.5x 21.5 x 29.5 in) | D1      | 240 V, 22.9 A 5500 W | No plug, no cable, requires hardwiring |
| F30430CM-33-60 <sup>†</sup>  | 45 L (1.6 cu.ft.) | 975 °C     | 24 (30 mL) porcelain or 38 (10 mL) quartz crucibles | 36 x 36 x 36 cm (14 x 14 x 14 in)    | 65 x 55 x 75 cm (25.5x 21.5 x 29.5 in) | D1      | 240 V, 22.9 A 5500 W | No plug, no cable, requires hardwiring |
| F30438CM-60 <sup>†</sup>     | 45 L (1.6 cu.ft.) | 975 °C     | 24 (30 mL) porcelain or 38 (10 mL) quartz crucibles | 36 x 36 x 36 cm (14 x 14 x 14 in)    | 65 x 55 x 75 cm (25.5x 21.5 x 29.5 in) | D1      | 208 V, 23.4 A 5500 W | No plug, no cable, requires hardwiring |

<sup>†</sup>CSA listed. <sup>†</sup>CE marked.

## Hearth trays

| Cat. No.   | Description                    | For Use with   |
|------------|--------------------------------|--|
| TY408X2A   | Crucible trays                 | Atmosphere controlled ashing furnace   |
| SH408X1    | Stainless-steel shelf          | F6000-60 atmosphere controlled ashing furnace; premium large muffle furnaces |
| HN408X2A S | Shelf handle                   | Atmosphere controlled ashing furnaces  |
| SH412X1    | Refractory shelf for F30400-60 | F30400-60 atmosphere controlled ashing furnaces                              |
| AY408X1    | Inconel manifold               | F6000 furnace  |
| AY408X1A   | Exhaust tubing kit             | Atmosphere controlled ashing and muffle furnaces                             |
| AY718X1    | Inconel manifold               | F30400 furnace   |

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

**Certifications:** CSA certified, CE marked as indicated  
Required power cord and hardwiring not included.