

Thermo Scientific Thermolyne Atmosphere Controlled Ashing Furnaces

Ideal for coal and coke ashing procedures



- Reaches 975°C with the standard stainless-steel manifold and 1093°C with the optional inconel manifold
- Adjustable gas flowmeter/valve (0-80L/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 $\pm 3^{\circ}\text{C}$ at 750°C
- Chamber rear has a 0.25in. diameter port for monitoring chamber temperatures with independent measuring devices
- Includes hose barb (in back of chamber) for inert gas line with tubing 0.64cm (0.25in.) I.D. and 0.96cm (0.375in.) O.D

Type F6000

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

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†	14L (0.5 cu.ft.)	975°C	24 (30mL) porcelain or 38 (10mL) quartz crucibles	25 x 33 x 18cm (10 x 12.8 x 6.8in.)	51 x 49 x 53cm (20 x 19.1 x 21in.)	B1	240V, 18.3A 4400w	no plug, no cable, requires hardwiring
F6028C-60†	14L (0.5 cu.ft.)	975°C	24 (30mL) porcelain or 38 (10mL) quartz crucibles	25 x 33 x 18cm (10 x 12.8 x 6.8in.)	51 x 49 x 53cm (20 x 19.1 x 21in.)	B1	208V, 19.2A 4000w	no plug, no cable, requires hardwiring
F6020C-33-60-80‡	14L (0.5 cu.ft.)	975°C	24 (30mL) porcelain or 38 (10mL) quartz crucibles	25 x 33 x 18cm (10 x 12.8 x 6.8in.)	51 x 49 x 53cm (20 x 19.1 x 21in.)	C1	240V, 18.3A 4400w	no plug, no cable, requires hardwiring
F6028C-60-80	14L (0.5 cu.ft.)	975°C	24 (30mL) porcelain or 38 (10mL) quartz crucibles	25 x 33 x 18cm (10 x 12.8 x 6.8in.)	51 x 49 x 53cm (20 x 19.1 x 21in.)	C1	208V, 19.2A 4000w	no plug, no cable, requires hardwiring
F6030CM-33-60‡	14L (0.5 cu.ft.)	975°C	24 (30mL) porcelain or 38 (10mL) quartz crucibles	25 x 33 x 18cm (10 x 12.8 x 6.8in.)	51 x 49 x 53cm (20 x 19.1 x 21in.)	D1	240V, 18.3A 4400w	no plug, no cable, requires hardwiring
F30420C-60-80†	45L (1.6 cu.ft.)	975°C	24 (30mL) porcelain or 38 (10mL) quartz crucibles	36 x 36 x 36cm (14 x 14 x 14in.)	65 x 55 x 75cm (25.5x 21.5 x 29.5in.)	C1	240V, 22.9A 5500w	no plug, no cable, requires hardwiring
F30420-33-60-80‡	45L (1.6 cu.ft.)	975°C	24 (30mL) porcelain or 38 (10mL) quartz crucibles	36 x 36 x 36cm (14 x 14 x 14in.)	65 x 55 x 75cm (25.5x 21.5 x 29.5in.)	C1	240V, 22.9A 5500w	no plug, no cable, requires hardwiring
F30428C-60-80†	45L (1.6 cu.ft.)	975°C	24 (30mL) porcelain or 38 (10mL) quartz crucibles	36 x 36 x 36cm (14 x 14 x 14in.)	65 x 55 x 75cm (25.5x 21.5 x 29.5in.)	C1	208V, 23.4A 5500w	no plug, no cable, requires hardwiring
F30430CM-60†	45L (1.6 cu.ft.)	975°C	24 (30mL) porcelain or 38 (10mL) quartz crucibles	36 x 36 x 36cm (14 x 14 x 14in.)	65 x 55 x 75cm (25.5x 21.5 x 29.5in.)	D1	240V, 22.9A 5500w	no plug, no cable, requires hardwiring
F30430CM-33-60‡	45L (1.6 cu.ft.)	975°C	24 (30mL) porcelain or 38 (10mL) quartz crucibles	36 x 36 x 36cm (14 x 14 x 14in.)	65 x 55 x 75cm (25.5x 21.5 x 29.5in.)	D1	240V, 22.9A 5500w	no plug, no cable, requires hardwiring
F30438CM-60†	45L (1.6 cu.ft.)	975°C	24 (30mL) porcelain or 38 (10mL) quartz crucibles	36 x 36 x 36cm (14 x 14 x 14in.)	65 x 55 x 75cm (25.5x 21.5 x 29.5in.)	D1	208V, 23.4A 5500w	no plug, no cable, requires hardwiring

† CSA approved. ‡ 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

APPLICATIONS

- Coal and coke ashing procedures

Warranty†: 1 year (parts and labor)
Certifications: CSA certified, CE marked as indicated
 Required power cord and hardwiring not included.