VCF - Top Loading Chamber Furnaces

General Information

These top loading chamber furnaces are particularly suited for applications involving tall crucibles and heavy components.

Heating elements in all four walls minimise the risk of damage from spills and ensures good temperature uniformity. The smaller two furnaces may be benchmounted, but best access is provided when these furnaces are located on the floor.

Standard Features

- 1200°C maximum operating temperature
- 5, 10, 23 or 100 litre chamber volume
- Free radiating wire elements in all 4 sides of chamber
- Vented top opening door
- Angled control panel, protected but clearly visible
- Carbolite 301 controller, with single ramp to set-point & process timer
- Thermocouple protected by ceramic sheath

Options

- Over-temperature protection (recommended to protect valuable contents & for unattended operation)
- A range of sophisticated digital controllers, multi-segment programmers and data loggers is available. These can be fitted with RS232, RS485 or Ethernet communications

Technical Specifications

VCF 12/5	
Max temp (°C)	1200
Volume (litres)	5
Heat-up time (mins)	102
Dimensions: Internal H x W x D (mm)	260 x 155 x 130
Dimensions: External H x W x D (mm)	660 x 530 x 405
Configuration	Floor-standing
Max power (W)	2500
Holding power (W)	900
Thermocouple type	R
Weight (kg)	50

VCF - Top Loading Chamber Furnaces

VCF 12/10	
Max temp (°C)	1200
Volume (litres)	10
Heat-up time (mins)	138
Dimensions: Internal H x W x D (mm)	365 x 180 x 155
Dimensions: External H x W x D (mm)	765 x 555 x 430
Configuration	Floor-standing
Max power (W)	3000
Holding power (W)	1200
Thermocouple type	R
Weight (kg)	60

VCF 12/23	
Max temp (°C)	1200
Volume (litres)	23
Heat-up time (mins)	125
Dimensions: Internal H x W x D (mm)	450 x 250 x 200
Dimensions: External H x W x D (mm)	850 x 600 x 500
Configuration	Floor-standing
Max power (W)	6000
Holding power (W)	2500
Thermocouple type	R
Weight (kg)	130

VCF 12/100	
Max temp (°C)	1200
Volume (litres)	100
Heat-up time (mins)	150
Dimensions: Internal H x W x D (mm)	600 x 410 x 410
Dimensions: External H x W x D (mm)	1100 x 930 x 950
Configuration	Floor-standing
Max power (W)	15000
Holding power (W)	6000
Thermocouple type	R
Weight (kg)	200

Please note:

VCF - Top Loading Chamber Furnaces

- Heat up rate is measured to 100°C below max, using an empty chamber
- Holding power is measured at continuous operating temperature
- The uniform volume is smaller than the total chamber volume