

HTF - High Temperature Laboratory Chamber Furnaces

General Information

The HTF high temperature furnace range comprises 1700 °C and 1800 °C models.

There are two bench-top sized chambers for each of the maximum temperatures, together with larger capacity floor standing units with capacities in excess of 15 litres.

The two smaller models in each temperature are bench mounted and the larger units are floor-standing. These furnaces may be customised in order to satisfy specific customer requirements, eg the addition of catalytic afterburners for ceramic binder burn-off applications.



Standard features

- 1700 °C & 1800 °C maximum operating temperature
- From 4 to 27 litre capacities
- High quality molybdenum disilicide heating elements
- Up & away door keeps heated surface away from the user
- Advanced refractory interior, used in combination with energy efficient low thermal mass insulation
- Programmable 3216P1 controller
- Over-temperature protection
- Digital RS232 communications on the following models: HTF 17/5, HTF 17/10, HTF 18/4 & HTF 18/8
- Fan cooling for low external case temperature
- The HTF 17/25 & HTF 18/15 both have electric door actuation

Options (specify these at time of order)

- A range of sophisticated digital controllers, multi-segment programmers and data loggers is available. These can be fitted with RS232, RS485 or Ethernet communications
- RS232 & RS485 communications (HTF17/25, HTF18/15 & HTF18/27)

Technical Specifications

HTF 17/5

Max temp (°C)	1700
Volume (litres)	5
Heat-up time (mins)	50
Dimensions:	158 x 150 x 225
Internal H x W x D (mm)	
Dimensions: External H x W x D (mm) H (door open)	565 x 830 x 650 (850)
Configuration	Bench-top
Max power (W)	4050

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Digital RS232 Comms	Standard
Thermocouple type	B
Weight (kg)	109

HTF 17/10

Max temp (°C)	1700
Volume (litres)	10
Heat-up time (mins)	44
Dimensions: Internal H x W x D (mm)	232 x 200 x 225
Dimensions: External H x W x D (mm) H (door open)	565 x 830 x 650 (850)
Configuration	Bench-top
Max power (W)	5920
Digital RS232 Comms	Standard
Thermocouple type	B
Weight (kg)	133

HTF 17/25

Max temp (°C)	1700
Volume (litres)	25
Heat-up time (mins)	45
Dimensions: Internal H x W x D (mm)	300 x 275 x 300
Dimensions: External H x W x D (mm) H (door open)	1800 x 1100 x 680 (2600)
Configuration	Floor-standing
Max power (W)	8200
Digital RS232 Comms	Option
Thermocouple type	B
Weight (kg)	400

HTF 18/4

Max temp (°C)	1800
Volume (litres)	4
Heat-up time (mins)	65
Dimensions: Internal H x W x D (mm)	140 x 140 x 190
Dimensions: External H x W x D (mm) H (door open)	565 x 830 x 650 (850)
Configuration	Bench-top
Max power (W)	4650
Digital RS232 Comms	Standard

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Thermocouple type	] Pt20%Rh/Pt40%Rh
Weight (kg)	115

HTF 18/8

Max temp (°C)	1800
Volume (litres)	8
Heat-up time (mins)	56
Dimensions: Internal H x W x D (mm)	210 x 190 x 190
Dimensions: External H x W x D (mm) H (door open)	565 x 830 x 650 (850)
Configuration	Bench-top
Max power (W)	6200
Digital RS232 Comms	Standard
Thermocouple type	] Pt20%Rh/Pt40%Rh
Weight (kg)	128

HTF 18/15

Max temp (°C)	1800
Volume (litres)	15
Heat-up time (mins)	70
Dimensions: Internal H x W x D (mm)	220 x 220 x 300
Dimensions: External H x W x D (mm) H (door open)	1580 x 690 x 800 (1735)
Configuration	Floor-standing
Max power (W)	7900
Digital RS232 Comms	Option
Thermocouple type	] Pt20%Rh/Pt40%Rh
Weight (kg)	310

HTF 18/27

Max temp (°C)	1800
Volume (litres)	27
Heat-up time (mins)	55
Dimensions: Internal H x W x D (mm)	300 x 300 x 300
Dimensions: External H x W x D (mm) H (door open)	1610 x 780 x 945 (1245)
Configuration	Floor-standing
Max power (W)	8180
Digital RS232 Comms	Option
Thermocouple type	] Pt20%Rh/Pt40%Rh

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Weight (kg)

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Please note:

- Maximum continuous operating temperature is 100 °C below maximum temperature
- Heat up rate is measured to 100 °C below maximum, using an empty chamber
- Chemical reaction between the heating elements and zirconia may discolour the zirconia. Processing advice or alternative elements are available; please enquire.