# HIGH TEMPERATURE LABORATORY FURNACE - HTF


HTF 17/5

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

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, e. g. the addition of catalytic afterburners for ceramic binder burn-off applications.

## STANDARD FEATURES

- 1700°C & 1800°C maximum operating temperature
- From 4 to 10 litre capacities
- High quality molybdenum disilicide heating elements
- Vertical lift door keeps heated surface away from the user
- Advanced refractory interior, used in combination with energy efficient low thermal mass insulation
- Programmable EPC3016P1 controller
- Over-temperature protection
- Ethernet communications
- Fan cooling for low external case temperature

## OPTIONS (*SPECIFY THESE AT TIME OF ORDER*)

- A range of sophisticated digital controllers, multisegment programmers and data loggers with digital communication options is available - more information about controllers

# TECHNICAL DETAILS (MODELS)

| | HTF 17/5 | HTF 17/10 |
|---|---|---|
| **Max temp (°C)** | 1700 | 1700 |
| **Heat-up time (mins)** | 50 | 44 |
| **Dimensions: Internal H x W x D (mm)** | 158 x 150 x 225 | 232 x 200 x 225 |
| **Dimensions: External H x W x D (mm) H (door open)** | 565 x 830 x 650 (850) | 565 x 830 x 650 (850) |
| **Configuration** | Bench-top | Bench-top |
| **Volume (litres)** | 5 | 10 |
| **Max power (W)** | 4050 | 5920 |
| **Digital RS232 Comms** | Standard | Standard |
| **Thermocouple type** | B | B |
| **Weight (kg)** | 109 | 133 |

| | HTF 18/4 | HTF 18/8 |
|---|---|---|
| **Max temp (°C)** | 1800 | 1800 |
| **Heat-up time (mins)** | 65 | 56 |
| **Dimensions: Internal H x W x D (mm)** | 140 x 140 x 190 | 210 x 190 x 190 |
| **Dimensions: External H x W x D (mm) H (door open)** | 565 x 830 x 650 (850) | 565 x 830 x 650 (850) |
| **Configuration** | Bench-top | Bench-top |
| **Volume (litres)** | 4 | 8 |
| **Max power (W)** | 4650 | 6200 |
| **Digital RS232 Comms** | Standard | Standard |
| **Thermocouple type** | Pt20%Rh/Pt40%Rh | Pt20%Rh/Pt40%Rh |
| **Weight (kg)** | 115 | 128 |

**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.

**www.carbolite-gero.com/htf**