

GHC - Modular Horizontal 3-Zone Tube Furnaces

The GHC tube furnaces use free radiating wire elements embedded within the insulation of the furnace body. The benefit of this design is its flexibility; with the use of tube adapters the same furnace can be used with a variety of tube diameters.

The heated length is divided into 3-zones. An extended uniform zone in the mid-section of the work tube is achieved with the use of end zone controllers which track the centre zone temperature and compensate for the loss of heat from the tube ends.

This range of tube furnaces does not include an integral work tube and one must be selected as an additional item. The work tube length is dependent on the application eg for use with modified atmosphere or vacuum and this information can be found on pages 92-93.



- 1200°C maximum operating temperature
- · Provides a longer uniform zone than can be achieved in a single zone tube furnace
- Heated lengths of 450, 600, 750, 900, 1050, or 1200 mm
- Accepts work tubes with outer diameter up to 170 mm
- End zone control is via back to back thermocouples
- Horizontal configuration with furnace mounted onto control module
- Carbolite 301 PID controller with single ramp to setpoint & process timer
- End zones 150 mm long



Options (specify these at time of order)

- Wide choice of tube diameters and materials is available: eg quartz, ceramic, metal. See pages 92-93 for tube materials and dimensions
- End zones 300 mm long
- Insulation plugs & radiation shields to prevent heat loss & improve uniformity
- Modified atmosphere and vacuum assemblies are available (see page 95)
- A range of sophisticated digital controllers, multi-segment programmers and data loggers is available. These can be fitted with RS232, RS485 or Ethernet communications (see pages 88-91)
- 'Retransmission of Setpoint' control configuration to facilitate programmed cooling
- Alternative mounting options are available (see page 39)

Technical data

| Model | Max temp (°C) | Heat- up time (mins) | Max continuous operating temp (°C) | Dimensions: Max outer diameter accessory tube (mm) | Dimensions: Heated length (mm) | Tube length for use in air (mm) | Tube length for use with modified atmosphere (mm) | Dimensions: External H x W x D (mm) | Dimensions: Furnace body length (mm) | Uniform length ±5°C (mm) | Max power (W) | Holding power (W) | Ther- mo- couple type | Weight (kg) |
|-------------|---------------------|-------------------------------|--|--|---|---|---|--|---|-----------------------------------|---------------------|-------------------------|--------------------------------|----------------|
| GHC 12/450 | 1200 | 98 | 1100 | 170 | 450 | 650 | 1050 | 672 x 676 x 468 | 630 | 300 | 3100 | 1500 | N | 37 |
| GHC 12/600 | 1200 | 64 | 1100 | 170 | 600 | 800 | 1200 | 672 x 827 x 468 | 780 | 440 | 3900 | 1800 | N | 40 |
| GHC 12/750 | 1200 | 74 | 1100 | 170 | 750 | 950 | 1350 | 672 x 976 x 468 | 930 | 500 | 4600 | 2200 | N | 51 |
| GHC 12/900 | 1200 | 79 | 1100 | 170 | 900 | 1100 | 1500 | 672 x 1126 x 468 | 1080 | 640 | 5400 | 2800 | N | 55 |
| GHC 12/1050 | 1200 | 100 | 1100 | 170 | 1050 | 1250 | 1650 | 672 x 1276 x 468 | 1230 | 880 | 6200 | 2850 | N | 85 |
| GHC 12/1200 | 1200 | - | 1100 | 170 | 1200 | 1400 | 1800 | 672 x 1426 x 468 | 1380 | - | 7000 | 3100 | N | 90 |

- Heat up rate is measured to 100 °C below max, using an empty tube & insulation plugs
- Holding power is measured at continuous operating temperature
- Uniform length measured with insulation plugs fitted



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The specifications listed in this brochure are subject to change by the manufacturer and therefore cannot be guaranteed to be correct. If there are aspects of the specification that must be guaranteed, please provide these to our sales team so that details can be confirmed.





