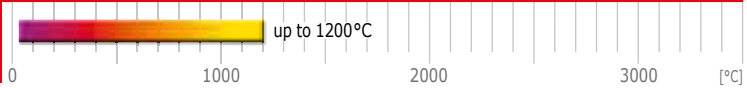


HST, HZS – Horizontal Split Tube Furnaces



HZS 12/900 with 3216P1 centre zone and 3216CC end zones option

The single zone HST and three zone HZS tube furnace range uses 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.

These furnaces comprise a furnace body which is hinged and split into two halves along its length. This makes exchange of work tubes easier and also enables the furnace to be used with reactors or work tubes where end flanges would make insertion into a non-split furnace difficult. 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, for example, for use with modified atmosphere or vacuum. This information can be found on pages 98-99.

The use of a separate work tube has the advantage of protecting the heating elements from damage or contamination.

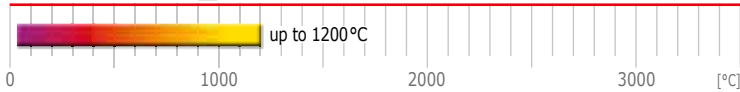
The HZS offers excellent uniformity which results from division of the heated length into 3-zones each with its own controller and thermocouple.

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 (see pages 94 – 97)
- Over-temperature control; recommended for unattended operation and to protect a valuable load
- A range of additional work tubes (pages 98 – 99) and end seals (page 102) or work tube packages (pages 100 – 101) are available
- Insulation plugs, gas tight end seals and vacuum connections available
- Wide choice of tube diameters and materials is available. See pages 98 – 99 for tube materials and dimensions
- Available with 'L' stand for vertical and horizontal use
- Control module on longer 6 metre conduit
- HZS: Three equal length zones
- HZS: If programmed cooling is required, programmable controllers capable of retransmission of setpoint can be supplied.

Standard features

- 1200°C maximum operating temperature
- Carbolite Gero 301 digital PID controller with single ramp to setpoint, digital display and process timer
- Accepts work tubes with outer diameters up to 110 mm
- Heated lengths, single zone 200, 300, 400, 600 or 900 mm
- Heated lengths, 3-zone 600 or 900 mm
- Horizontal furnace with a separate control module on a 2 metre conduit
- Furnace splits into two halves to accommodate work tubes or samples fixed into a test rig
- Wire elements in high quality vacuum formed insulation ensure fast heat up, excellent temperature uniformity and short cool down times
- HZS: End zone control is via back to back thermocouples
- HZS: End zones of 150 mm at each end



HST 12/600 with work tube option

Technical data

CGH	Model	Max. temp. [°C]	Heat-up time [mins]	Dimensions: Max. outer diameter accessory tube [mm]	Dimensions: Heated length [mm]	Dimensions: Furnace body length [mm]	Recommended tube length for use in air [mm]	Recommended tube length for use with modified atmosphere [mm]	Dimensions: External Furnace (inc. stand) H x W x D [mm]	Dimensions: Control module H x W x D [mm]	Uniform length ±5°C [mm]	Max. power [W]	Holding power [W]	Thermo-couple type	Weight [kg]
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Single Zone Horizontal Split Tube Furnaces HST

HST 12/200	1200	45	110	200	350	350	650	350 x 350 x 410	222 x 370 x 376	100	1000	800	N	26
HST 12/300	1200	45	110	300	450	450	750	350 x 450 x 410	222 x 370 x 376	150	1500	850	N	28
HST 12/400	1200	45	110	400	550	550	850	350 x 550 x 410	222 x 370 x 376	200	2000	900	N	32
HST 12/450	1200	56	110	450	600	600	900	360 x 600 x 445	222 x 370 x 376	220	2250	950	N	33
HST 12/600	1200	47	110	600	750	750	1050	350 x 750 x 410	222 x 370 x 376	300	3000	1100	N	38
HST 12/900	1200	45	110	900	1050	1050	1350	350 x 1050 x 410	222 x 370 x 376	450	4500	1450	N	60

3-Zone Horizontal Split Tube Furnaces HZS

HZS 12/600	1200	45	110	600	750	750	1050	350 x 750 x 410	225 x 570 x 380	500	3000	1000	N	40
HZS 12/900	1200	45	110	900	1050	1050	1350	350 x 1050 x 410	225 x 570 x 380	750	4500	1400	N	65

i Please note:
 - Heat up rate when using an optional ceramic work tube must be limited to 5°C/min
 - Holding power is measured at continuous operating temperature
 - Heat up time is measured to 100°C below max, using an empty tube & insulation plugs

- Control box width increases to 570 mm for models with three phase power supply
 - Uniform length measured with insulation plugs fitted
 - Maximum continuous operating temperature is 100°C below maximum temperature



Wolflabs

Wolf Laboratories Limited

www.wolflabs.co.uk

Tel: 01759 301142

Fax: 01759 301143

sales@wolflabs.co.uk



Use the above details to contact us if this literature doesn't answer all your questions.

Pricing on any accessories shown can be found by keying the part number into the search box on our website.

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.

