HST – Horizontal Split Tube Furnaces

The HST 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.

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 eg for use with modified atmosphere or vacuum. This information can be found on pages 92-93.
The use of a separate work tube has the advantage of protecting the heating elements from damage or contamination.

HST 12/600

Standard features

- 1200°C maximum operating temperature
- Accepts work tubes with outer diameters up to 110 mm
- Heated lengths of 200, 300, 400, 600, 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
- Carbolite 301 digital PID controller with single ramp to setpoint, digital display and process timer

Options (specify these at time of order)

- Insulation plugs, gas tight end seals and vacuum connections available
- Wide choice of tube diameters and materials is available: eg quartz, ceramic, metal. See pages 92-93 for tube materials and dimensions
- Over-temperature control; recommended for unattended operation and to protect a valuable load
- Available with 'L' stand for vertical and horizontal use
- Control module on longer 6 metre conduit
- 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)

Technical data

Model	Max temp (°C)	Heat-up time (mins)	Dimensions: Max outer diameter accessory tube (mm)	Dimensions: Heated length (mm)	Dimensions: Furnace body length (mm)	Recom-mended tube length for use in air (mm)	Recom-mended 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)	Thermo-couple type	Weight (kg)
HST 12/200	1200	45	110	200	350	350	650	350 x 350 x 410	222 x 370 x 376	100	1000	N	26
HST 12/300	1200	45	110	300	450	450	750	350 x 450 x 410	222 x 370 x 376	150	1500	N	28
HST 12/400	1200	45	110	400	550	550	850	350 x 550 x 410	222 x 370 x 376	200	2000	N	32
HST 12/600	1200	45	110	600	750	750	1050	350 x 750 x 410	222 x 370 x 376	300	3000	N	38
HST 12/900	1200	45	110	900	1050	1050	1350	350 x 1050 x 410	222 x 370 x 376	450	4500	N	60

Please note:
- Heat up rate is measured to 100°C below max, using an empty tube & insulation plugs
- Uniform length measured with insulation plugs fitted
- Maximum continuous operating temperature is 100°C below maximum temperature

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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.