Split Tube Furnaces

These furnaces are manufactured in two halves and are hinged together for easy loading of a worktube reactor vessel, or large workpiece. The design offers the flexibility to place the furnace around a fixed item - such as a pipe with flanges which are too large to pass through a solid tube furnace, or around a sample which is fixed into a materials test rig.

The HST models are ideally suited for horizontal, bench use, whilst the VST models have the same maximum internal diameter, but smaller external dimensions and are primarily designed to fit within test rigs. The VST models can also be mounted on a stand with either near or far hinge,* wall mounted with a bracket.**

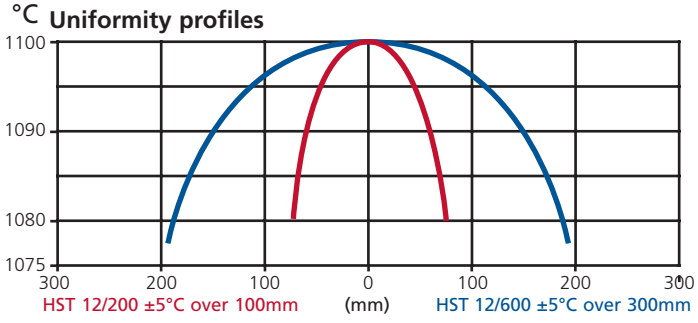
Both models have extended insulation beyond the heated length which provides the opportunity to accept any tube diameter up to 110mm maximum od, by cutting away part of the unheated insulation.

* Far hinges allow much larger openings but take up more room

** Alternatively vertical models can be wall mounted with a bracket

HST 12/70/600

Uniformity profiles



Horizontal Split Tube Furnaces	HST 12/200	HST 12/300	HST 12/400	HST 12/600	HST 12/900
Max. Temperature (°C)	1200	1200	1200	1200	1200
Continuous Temperature (°C)	1100	1100	1100	1100	1100
Heat up time (mins)	45	45	45	45	45
Maximum o/d of Separate Worktube (to hold sample) (min 20mm)	110	110	110	110	110
Separate Worktube Length required :					
heating in air (mm)	350	450	550	750	1050
heating with atmosphere	650	750	850	1050	1350
Heated Length (mm)	200	300	400	600	900
Overall Furnace Length (mm)	350	450	550	750	1050
Horizontal Mounting with remote control box	✓	✓	✓	✓	✓
Uniform Length +/-5°C	100	150	200	300	450
Thermocouple Type	N	N	N	N	N
Max. Power (W)	1000	1500	2000	3000	4500
Holding Power (W)	~	~	900	1100	~
External Dimensions:					
H (mm)	350	350	350	350	350
W (mm)	325	425	525	725	1025
D (mm)	410	410	410	410	410
Weight (kg)	26	28	32	38	60
Control Box Dimensions :					
H x W x D 222 x 570 x 375 (mm)	✓	✓	✓	✓	✓

1) Holding power is measured at 100°C below max. temperature, based on 240V supply, with an empty chamber.
2) Uniformity graphs are available on request, for most models.
3) All external dimensions are taken with the chamber closed.
4) Heat up time is measured at 100°C below max. temperature with an empty tube

Thank you for reading this data sheet.

For pricing or for further information, please contact us at our UK Office, using the details below.

UK Office
Keison Products,
P.O. Box 2124, Chelmsford, Essex, CM1 3UP, England.
Tel: +44 (0)330 088 0560
Fax: +44 (0)1245 808399
Email: sales@keison.co.uk