



## 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.\*\*

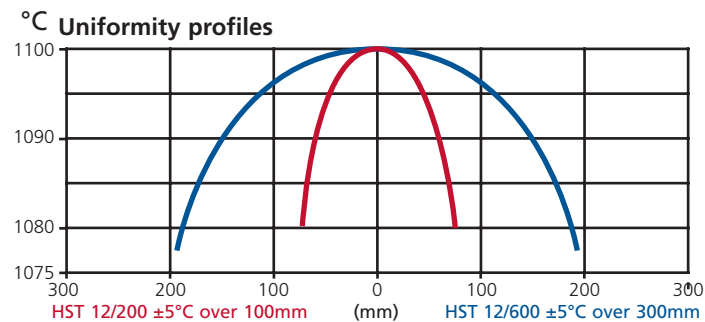
Both models have extended insulation beyond the heated length which provides the opportunity to accept any tube diameter up to 110mm maximum od, by cutting away part of the unheated insulation.

\* 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**



| Horizontal Split Tube Furnaces                                  | HST<br>12/200 | HST<br>12/300 | HST<br>12/400 | HST<br>12/600 | HST<br>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<br>(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 $\pm 5^{\circ}\text{C}$                          | 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



# tube furnaces



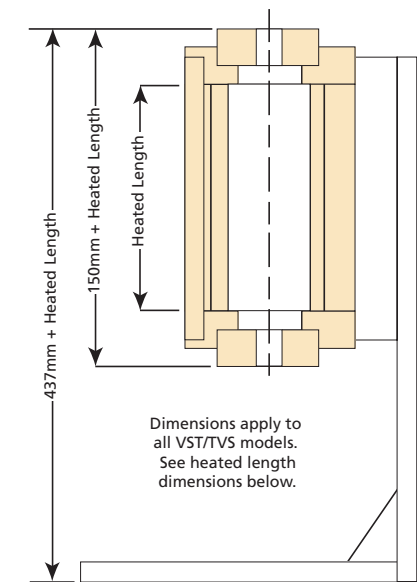
VST 17/250

## General Features

Standard vertical hinged tube furnaces are provided with a vertical support stand. Optional far hinge support stand or wall bracket are available if you need a wide opening. (See below)

| Wire embedded split tube furnaces<br>~ single zone              | VST<br>12/200 | VST<br>12/300 | VST<br>12/400 | VST<br>12/600 | VST<br>12/900 | VST<br>17/250 |
|---|---------------|---------------|---------------|---------------|---------------|---------------|
| Max. Temperature (°C)   | 1200          | 1200          | 1200          | 1200          | 1200          | 1700          |
| Continuous Temperature (°C)                                     | 1100          | 1100          | 1100          | 1100          | 1100          | 1600          |
| Heat up time (mins)   | 45            | 45            | 45            | 45            | 45            | ~             |
| Maximum o/d of Separate Worktube<br>(to hold sample) (min 20mm) | 110           | 110           | 110           | 110           | 110           | 90            |
| Separate Worktube Length required:                              | 500           | 600           | 700           | 900           | 1200          | 550           |
| Heating in air (mm)   | 500           | 600           | 700           | 900           | 1200          | 550           |
| Heating with Atmosphere (mm)                                    | 800           | 900           | 1000          | 1200          | 1500          | 850           |
| Heated Length (mm)  | 200           | 300           | 400           | 600           | 900           | 250           |
| Overall Furnace Length (or width) mm                            | 350           | 450           | 550           | 750           | 1050          | 900           |
| Vertical Stand mounted near hinge.                              |               |               |               |               |               |               |
| Optional wall bracket, far hinge, no stand                      | ✓             | ✓             | ✓             | ✓             | ✓             | ✓             |
| Thermocouple Type   | N             | N             | N             | N             | N             | B             |
| Max. Power (W)  | 1000          | 1500          | 2000          | 3000          | 4500          | 4500          |
| Holding Power (W)   | 800           | ~             | 900           | 1100          | ~             | ~             |
| External Dimensions:  |               |               |               |               |               |               |
| H (mm)  | 300           | 400           | 500           | 700           | 1000          | 865           |
| W (mm)  | 350           | 350           | 350           | 350           | 350           | 600           |
| D (mm)  | 350           | 350           | 350           | 350           | 350           | 705           |
| Weight (kg)   | 24            | 25            | 26            | 32            | 44            | ~             |
| 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



VST / TVS Tube Furnace on Standard Support Stand



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](mailto:sales@keison.co.uk)**

Please note - Product designs and specifications are subject to change without notice. The user is responsible for determining the suitability of this product.