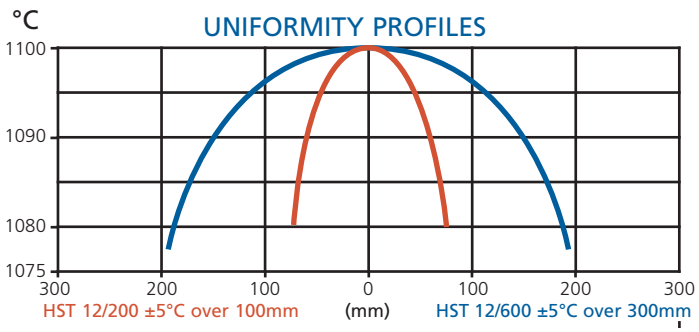
HST 12/70/600



HST 12/86/400/301

General Features

- Maximum operating temperature of 1200ºC.
- Available in multiple heated lengths of 8", 12", 16", 24" and 36".
- Split-hinge design allows for convenient process observation, enhanced cooling, and easy fixturing of the process tube.
- Designed to accept process tubes up to 4" OD (100 mm).
- Insulating end vestibules improve chamber uniformity and incorporate interchangeable tube adapters.
- These tube adapters allow easy conversion to different diameter process tubes.
- Carbolite split-hinge tube furnaces are available in single and three zone designs.
- Three zone tube furnaces provide a longer uniform temperature zone through elevation of end zone temperatures to compensate for normal end losses.
- Carbolite HZS and TVS three zone tube furnaces are zoned 6-12-6 and 6-24-6.
- Long-life free radiating heating element design provides excellent radial and linear chamber uniformity.
- High efficiency low mass vacuum formed ceramic fiber insulation enhances heat-up and recovery rates.
- Each three zone furnace incorporates three separate temperature controls to allow variation of setpoint temperature in each zone.
- HZS model end zone controllers may be slaved to the center zone or fully independent. (See page 45)
- Positive break furnace safety switch isolates power to the heating elements when furnace is opened.
- Low outer case temperature provided through double shell construction.
- Carbolite hinged tube furnaces are designed for bench mounting, and are interconnected to a separate control cabinet with a 6 foot cable.
- Choice of 301 or programmable controls.
- See furnace options on pages 43-46.

1200°C Horizontal Split-Hinge Tube Furnaces

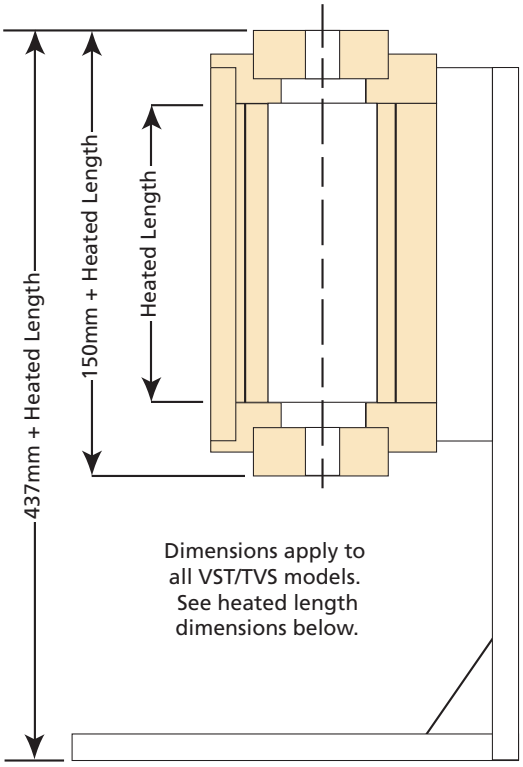
Furnace Model	Max. Temp. (°C)	Maximum O.D. Tube ✓ Inches (mm)	Heated Length Inches (mm)	No. of Zones	External Dimensions Inches (mm) Height	Length	Depth	TC Type	Max. Power (kW)	Furnace Voltage	Shipping Weight (lb.)
HST 12/200	1200	4.00 (100)	8.00 (200)	1	13.75 (350)	13.75 (350)	16.25 (410)	N	1.0	120	75
HST 12/300	1200	4.00 (100)	12.00 (300)	1	13.75 (350)	17.75 (450)	16.25 (410)	N	1.5	120	82
HST 12/400	1200	4.00 (100)	15.75 (400)	1	13.75 (350)	21.50 (550)	16.25 (410)	N	2.0	208/240	88
HST 12/600	1200	4.00 (100)	23.75 (600)	1	13.75 (350)	29.50 (750)	16.25 (410)	N	3.0	208/240	102
HST 12/900	1200	4.00 (100)	35.50 (900)	1	13.75 (350)	41.25 (1050)	16.25 (410)	N	4.5	208/240	153
HZS 12/600	1200	4.00 (100)	23.75 (600)	3	13.75 (350)	29.50 (750)	16.25 (410)	N	3.0	208/240	115
HZS 12/900	1200	4.00 (100)	35.50 (900)	3	13.75 (350)	41.25 (1050)	16.25 (410)	N	4.5	208/240	161

✓ Specify tube OD at time of order.
Continuous operating temperature is 100°C below maximum temperature.

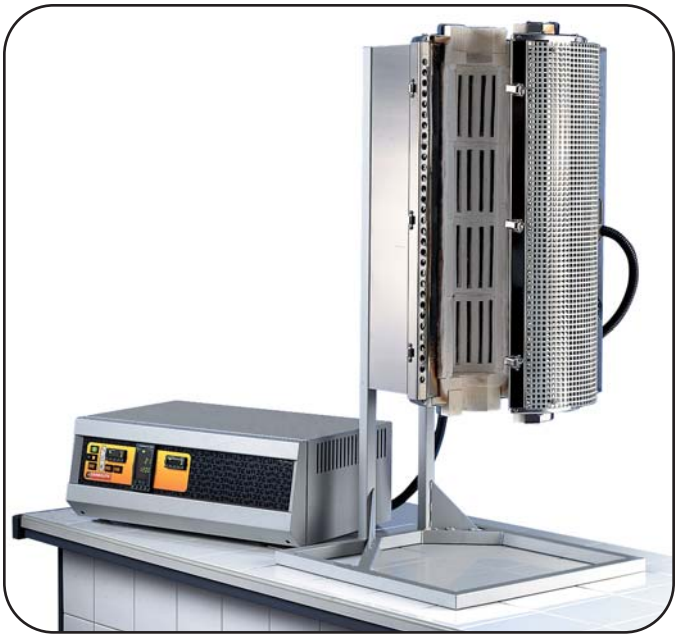
Specify voltage at time of order.
Furnaces operate on single phase voltage.

General Features

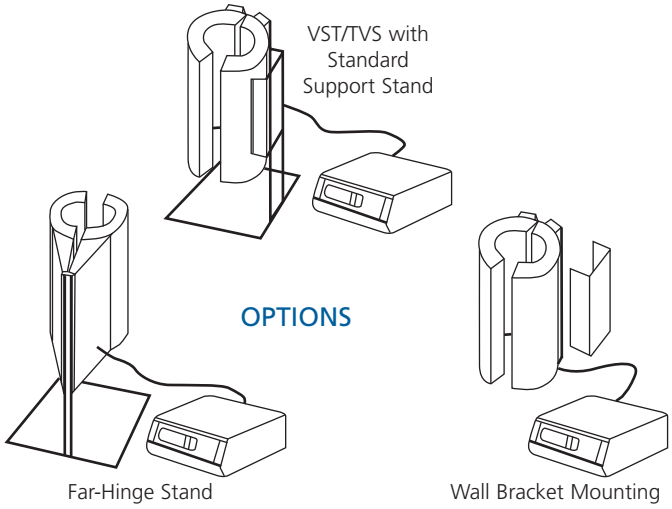
- General design features listed for horizontal split-hinge tube furnaces (page 32) also apply to vertical split-hinge tube furnaces.
- Standard vertical hinged tube furnaces are provided with a vertical support stand.
- Optional far hinge vertical support stand or wall bracket are available. (see illustrations below)



VST/TVS Tube Furnace on Standard Support Stand



TVS 12/600/3508P1



1200°C Vertical Split-Hinge Tube Furnaces

Furnace Model	Max. Temp. (°C)	Maximum O.D. Tube ✓ Inches (mm)	Heated Length Inches (mm)	Overall Furnace Length Inches (mm)	Number of Zones	TC Type	Max. Power (kW)	Furnace Voltage	Shipping Weight (lb.)
VST 12/200	1200	4.00 (100)	8.00 (200)	13.75 (350)	1	N	1.0	120	71
VST 12/300	1200	4.00 (100)	12.0 (300)	17.75 (450)	1	N	1.5	120	73
VST 12/400	1200	4.00 (100)	15.75 (400)	21.50 (550)	1	N	2.0	208/240	75
VST 12/600	1200	4.00 (100)	23.75 (600)	29.50 (750)	1	N	3.0	208/240	91
VST 12/900	1200	4.00 (100)	35.50 (900)	41.25 (1050)	1	N	4.5	208/240	200
TVS 12/600	1200	4.00 (100)	23.75 (600)	29.50 (750)	3	N	3.0	208/240	91
TVS 12/900	1200	4.00 (100)	35.50 (900)	41.25 (1050)	3	N	4.5	208/240	200

✓ Specify tube OD at time of order. Specify voltage at time of order. Furnaces operate on single phase voltage.
Continuous operating temperature is 100°C below maximum temperature.