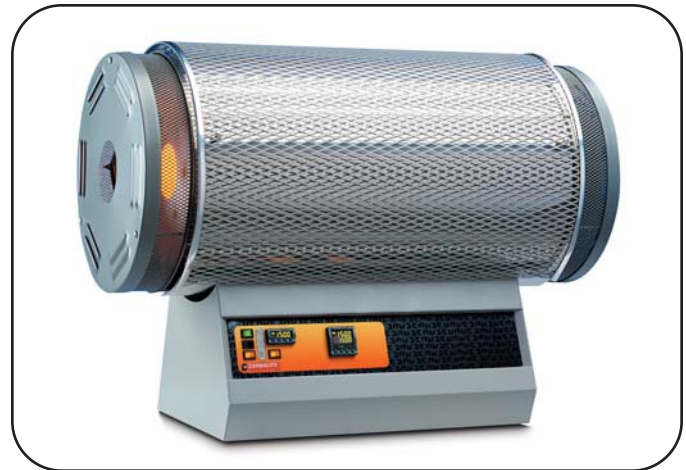




General Features

- Maximum operating temperatures of 1500°C or 1600°C.
- Available in heated lengths of 18" and 24" single zone.
- The 24" heated length is also available in a 3 zone design.
- Three zone tube furnaces provide a longer uniform temperature zone through elevation of end zone temperatures to compensate for normal end losses.
- Mini design offered with 7" heated length, for use with process tubes up to 2.25" OD.
- Furnaces incorporate low thermal mass ceramic fiber insulation for improved heat-up rates and energy efficiency.
- Long-life free radiating silicon carbide heating elements provide excellent radial and linear chamber uniformity.
- Power may be easily increased to heating elements from the temperature controller to compensate for SiC element resistance change (aging). This feature assures that the furnace's original heat-up characteristics and maximum rated temperature is always achieved.
- Furnaces are normally mounted horizontally on a support base or cabinet.
- Furnace controls are built into the support base, providing convenient observation and access to all power and temperature controls.
- Insulating end vestibules improve chamber uniformity.
- Safety outer mesh guard provides low temperature external surface.
- All 1500° & 1600°C tube furnaces can be provided for optional vertical operation. (See page 44)
- Vertical design is interconnected to a separate control cabinet with 6 ft. cable.
- Three zone furnaces incorporate three separate temperature controls to allow variation of setpoint temperature in each zone.
- TZF model end zone controllers may be slaved to the center zone or fully independent. (see page 45)
- Choice of 301 or programmable controls.
- See furnace options on pages 43-46.



STF 15/450/3216P1/OTC



STF 15/610/3216P1
with Vertical Option "L" Stand

1500°C & 1600°C Single and Three Zone Tube Furnaces

Furnace Model	Max. Temp. (°C)	Maximum O.D. Tube ✓ Inches (mm)	Heated Length Inches (mm)	No. of Zones	TC Type	Max. Power (kW)	Furnace Voltage	External Dimensions Inches (mm)			Shipping Weight (lb.)
								Height	Length	Depth	
STF 15/180	1500	2.25 (60)	7.00 (180)	1	R	1.5	208/240	19.75 (500)	23.75 (600)	14.75 (375)	85
STF 15/450	1500	3.50 (90)	17.75 (450)	1	R	5.5	208/240	26.00 (660)	32.75 (830)	17.50 (445)	100
STF 15/610	1500	3.50 (90)	24.00 (610)	1	R	6.0	208/240	26.00 (660)	44.50 (1130)	17.50 (445)	133
STF 16/180	1600	2.25 (60)	7.00 (180)	1	R	2.5	208/240	19.75 (500)	23.75 (600)	14.75 (375)	95
STF 16/450	1600	3.50 (90)	17.75 (450)	1	R	6.0	208/240	26.00 (660)	32.75 (830)	17.50 (445)	110
STF 16/610	1600	3.50 (90)	24.00 (610)	1	R	7.0	208/240	26.00 (660)	44.50 (1130)	17.50 (445)	139
TZF 15/610	1500	3.50 (90)	24.00 (610)	3	R	8.0	208/240*	26.00 (660)	44.50 (1130)	17.50 (445)	133
TZF 16/610	1600	3.50 (90)	24.00 (610)	3	R	9.0	208/240*	26.00 (660)	44.50 (1130)	17.50 (445)	139

✓ Specify tube OD at time of order.

Specify voltage at time of order.

* 3 phase electrical design.

Continuous operating temperature is 100°C below maximum temperature.