

Universal Tube Furnaces

68 STF – High Temperature Single Zone Tube Furnaces

The STF tube furnaces are available at 1500 °C & 1600 °C.

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.

Standard features

- 1500 °C & 1600 °C maximum operating temperatures
- Accepts work tubes up to 60 or 90 mm outer diameter depending on model
- Heated lengths of 180, 450 or 610 mm
- Silicon carbide heating elements
- Horizontal configuration
- Carbolite 301 controller with single ramp to setpoint and process timer



STF 15/610 with L stand option

Options (specify these at time of order)

- Alternative mounting options are available (see page 39)
- Optionally configured for 2 phase or 3 phase electrical supply (depending on model)
- A range of additional work tubes is available in a variety of materials
- Insulation plugs & radiation shields to prevent heat loss & improve uniformity
- Modified atmosphere and vacuum end seal assemblies (see page 95)
- Over-temperature protection (recommended to protect valuable contents & for unattended operation)
- 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)

STF 16/180



Technical data

Model	Max temp (°C)	Dimensions: Max outer diameter accessory tube (mm)	Dimensions: Heated length (mm)	Tube length for use in air (mm)	Tube length for use with modified atmosphere (mm)	Dimensions: External H x W x D (mm)	Dimensions: Furnace body length (mm)	Uniform length $\pm 5^{\circ}\text{C}$ (mm)	Max power (W)	Thermo-couple type	Weight (kg)	Power supply		
												Volt	Phase	Ampere per phase
STF 15/180	1500	60	180	600	900	625 x 600 x 375	600	80	1500	R	29	200-240 110-120	single phase single phase	12 24
STF 15/450	1500	90	450	900	1200	650 x 875 x 430	875	350	5500	R	34	200-240 380-415 208	single phase 2 phase + N 3 phase + N	39 19.5 25
STF 15/610	1500	90	610	1200	1500	650 x 1080 x 430	1080	400	6000	R	45	220-240 200-208 380-415 380-415 200-240	single phase single phase 2 phase + N 3 phase + N 3 phase delta	32 44 19.5 19.5 34
STF 16/180	1600	60	180	600	900	625 x 600 x 375	600	80	2500	R	29	200-240	single phase	23
STF 16/450	1600	90	450	900	1200	650 x 875 x 430	875	350	6000	R	40	200-240 380-415 380-415 200-240 380-415	single phase 2 phase + N 3 phase + N 3 phase delta 3 phase no N	47 24 21 39 21
STF 16/610	1600	90	610	1200	1500	650 x 1080 x 430	1080	400	7000	R	50	200-240 380-415 380 400-415 200-220 230-240	single phase 2 phase + N 3 phase + N 3 phase + N 3 phase delta 3 phase delta	50 25 25 27 43 46

i Please note:

- Maximum continuous operating temperature is 100°C below maximum temperature
- Uniform length measured with insulation plugs fitted



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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.

