

XSL - 1200°C Solid Tube Furnaces
1-Zone



XSL-3-0-12-1C-F01

The XSL solid tube furnaces have a continuous solid body design. Process tubes can be inserted through the furnace chamber before attaching end seals.

These furnaces use ceramic refractory heating elements with embedded resistance wire. The tube adapters can be changed by removing the end caps so that multiple process tube sizes can be used with one furnace.

Temperature uniformity is excellent due to the heavy ceramic refractory heating elements and continuous solid tube heated chamber.

Standard Features

- 1200°C maximum operating temperature
- Ceramic refractory with embedded wire heating elements ensure excellent temperature uniformity
- Thermcraft SmartControl touch screen PID control system (see control system descriptions)
- Long life Inconel sheathed Type K thermocouple
- Accepts process tube outer diameters up to 2.75" (69mm)
- Heated lengths up to 24" (609mm)
- Includes 1 set of tube adapters sized to desired internal diameter
- 10' (3m) interconnecting and power cables
- Furnace and controller ship fully assembled and ready for connection to incoming power supply
- Can be used in horizontal or vertical orientation

Options and Upgrades

- The SmartControl can be upgraded to include profile programming, data acquisition and communications. These options can be purchased individually or separately and can also be purchased as an upgrade after the unit has been shipped and installed
- Independent over temperature control
- Additional sets of tube adapters
- Process tubes in various sizes and materials
- Process tube end seals for gas and vacuum
- Eurotherm 2404 series controls and communications upgrades
- Available without control system
- Custom options and upgrades available upon request, such as output control of external devices, actuators, flow controllers, etc. (extends delivery time)

XSL-3-0-18-1C-F01

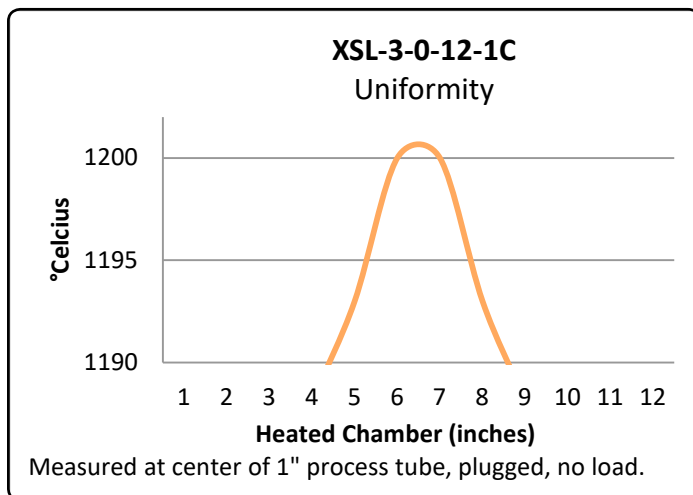


Specifications

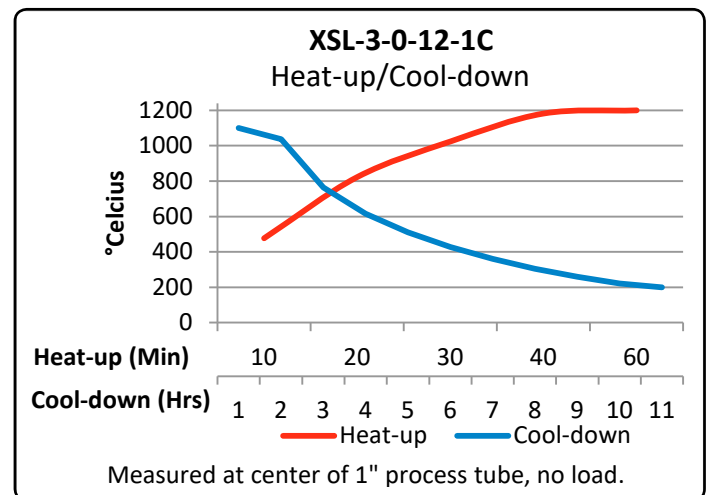
Model	Max Temp (°C)	Heat Zones	Heat Up Time (mins)	Max OD Process Tube in. (mm)	Heated Length in. (mm)	Furnace External Dimensions HxWxD in. (mm)	Control External Dimensions HxWxD in. (mm)	Max Power (Watts)	Volts	Amps	Thermo couple Type	Weight lbs (kg)
XSL-3-0-12-1C	1200	1	60	2.75 (69)	12 (304)	15x15x18 (381x381x457)	9x14x14 (229x356x356)	2260	230	10	K	53 (24)
XSL-3-0-18-1C	1200	1	65	2.75 (69)	18 (457)	15x21x18 (381x533x457)	9x14x14 (229x356x356)	3440	230	15	K	71 (33)
XSL-3-0-24-1C	1200	1	70	2.75 (69)	24 (609)	15x27x18 (381x686x457)	9x14x14 (229x356x356)	4520	230	20	K	89 (41)

Notes
 -Continuous operating temperature is 100°C below maximum temperature
 -Heat up times are measured under no load

Temperature Profiles



- Uniformity profile taken at a set-point of 1200°C
- ±5°C over 5" (127mm), ±1°C over 2" (51mm)
- Uniform length increases respectively in furnace models with longer heated lengths.



- Heat-up time measured from ambient to 1200°C at 100% power output
- Cool-down rate measured with power shut off
- Faster cool-down rates can be achieved with forced cooling (reduces heater life)