

### XSB - 1200°C Box Furnaces 1-Zone

The XSB box furnaces have a hinged vertical lift door that keeps the hot door insulation always facing away from the operator. A door safety switch interrupts power to the heating elements when the door is opened.

These furnaces use Fibercraft™ vacuum formed ceramic fiber heating elements with free radiating wire embedded into the body of the heater. The furnace chamber, heating elements, hearth plate and chamber threshold are designed to be easily replaced if they become worn out.

An air gap between the heated chamber exterior and furnace exterior surface is designed to minimize the external surface temperature of the furnace.



XSB-6-6-9-1V-F01

### Standard Features

- 1200°C maximum operating temperature
- Vacuum formed ceramic fiber heating elements ensure rapid heat up, excellent temperature uniformity and quick cool down
- Thermcraft SmartControl touch screen PID control system (see control system descriptions)
- Long life Inconel sheathed Type K thermocouple
- Heated chamber volume up to 42L
- 10' (3m) power cables
- Furnace and controller ship fully assembled and ready for connection to incoming power supply

### Options and Upgrades

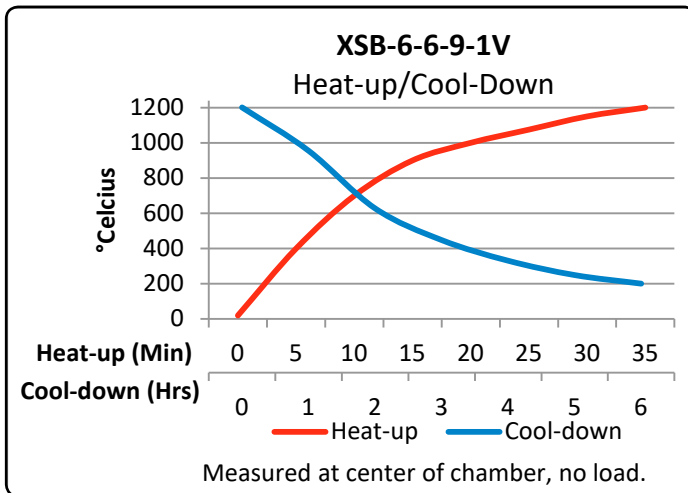
- The SmartControl can be upgraded to include profile programming, data acquisition and communications. These options can be purchased individually or separately and can also be purchased as an upgrade after the unit has been shipped and installed
- Independent over temperature control
- Inlet and outlet fittings for gas purging
- Forced exhaust fan and duct
- Sealed atmosphere retort
- Exhaust pipe for fume extraction
- Eurotherm 2404 series controls and communications upgrades
- Custom options and upgrades available upon request, such as output control of external devices, actuators, flow controllers, etc. (extends delivery time)

## Specifications

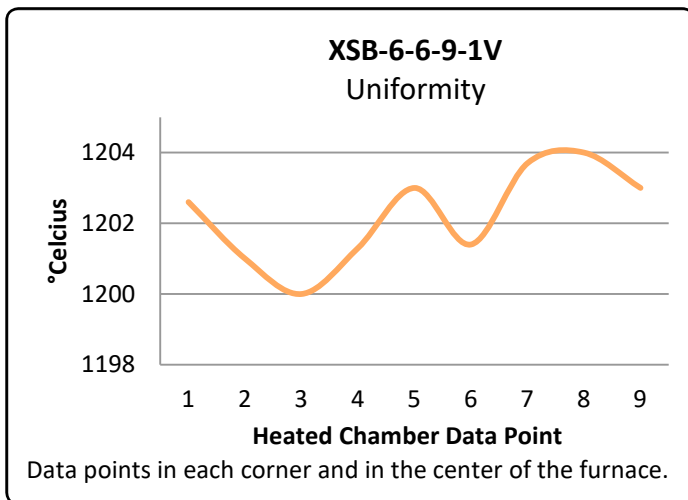
Model	Max Temp (°C)	Heat Zones	Heat Up Time (mins)	Chamber Volume (L)	Chamber Internal Dimensions HxWxD in. (mm)	Furnace External Dimensions HxWxD in. (mm)	Height with Door Open in. (mm)	Max Power (Watts)	Volts	Amps	Thermo couple Type	Weight lbs (kg)
XSB-6-6-9-1V	1200	1	35	5	6x6x9 (152x152x228)	22x18x26 (558x457x660)	32 (812)	2700	230	12	K	88 (40)
XSB-8-8-12-1V	1200	1	40	12	8x8x12 (203x203x304)	24x20x29 (610x508x737)	38 (965)	5500	230	24	K	132 (60)
XSB-12-12-18-1V	1200	1	50	42	12x12x18 (304x304x457)	29x24x34 (737x610x864)	44 (1118)	11000	230	48	K	176 (80)

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

## Temperature Profiles



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



- Uniformity profile taken at a set-point of 1200°C
- ±5°C over 9 data points



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