

TruTemp

by International Thermal Systems

Box Furnace



Standard Features

- Standard designs to 2000°F
- Gas and electric versions
- Heavy plate construction
- Accepts heavy loads
- Energy efficient ceramic fiber insulation
- NEMA 12 Control Panel (machine-mounted)
- Electric vertical lift door
- Single button E-stop on control panel
- Burner safety equipment
- Furnace chamber and hi-limit microprocessor based temperature controllers
- Electric version SCR controlled
- Heavy duty piers with optional hearth
- Excellent temperature uniformity

Additional Options:

- PLC/HMI for process automation
- Data acquisition
- Inert gas construction
- Recirculation Fans
- Automatic shutdown circuit
- UL/CE listed electrical panel – panel inspected, certified, serialized (CE provides declaration of conformity)
- Special temperature uniformities
- Hearth roller rails
- Load tables
- Quench tanks
- Spare parts
- Field installation, installation supervision and commissioning
- Temperatures to 3300°F



The TruTemp™ Box Furnaces are an excellent solution to heat treat a wide variety of materials, from welded fabrications and forgings, to spun products and plates. Processes include tempering, hardening, normalizing, annealing, preheating and stress relieving to name a few. Industries served are aerospace, oil drilling, steel mills, automotive, military and many more. Materials processed include aluminum, steel, cast iron, high nickel alloys, titanium and others.

The TruTemp™ Box Furnace has many established design features, such as vertical lift doors, energy efficient insulation, fully proportional gas and electric heat, heavy duty cast hearth and piers and state-of-the-art control packages.

The TruTemp™ Box Furnace has standard designs to 2000°F and can be customized for each individual application up to 3300°F. In addition, all furnaces are available with optional inert gas and recirculation systems.

Contact ITS today for all your box furnace and heat treat equipment needs.

Box Furnace

2000 °F STANDARD BOX FURNACE SIZES and CAPACITIES										
Model Number	Chamber Dimensions			Outside Dimensions		Height (overall)	Load LBS (kgs)	Heater INPUT (kw's)	Burner INPUT (BTU,s)	Voltage Range
		INCHES/METRIC	VOLUME		INCHES					
SBF-223	W	24" / 610mm	12 ft ³ (.33 m ³)	W	62.5" / 1588mm	170" (4318mm)	1200 LBS (544kg)	48 KW	500,000	380/3/50 through 480/3/60
	H	24" / 610mm		H	63.5" / 1613mm					
	L	36" / 915mm		L	69" / 1753mm					
SBF-434	W	48" / 1219mm	48 ft ³ (1.8 m ³)	W	86.5" / 2197mm	218" (5537mm)	4800 LBS (2902kg)	64 KW	800,000	
	H	36" / 1219mm		H	69" / 1753mm					
	L	48" / 1219mm		L	81" / 2057mm					
SBF-444	W	48" / 1219mm	64 ft ³ (1.8 m ³)	W	86.5" / 2197mm	218" (5537mm)	6400 LBS (2902kg)	105 KW	1,000,000	
	H	48" / 1219mm		H	87.5" / 2223mm					
	L	48" / 1219mm		L	81" / 2057mm					
SBF-446	W	48" / 1219mm	96 ft ³ (2.7 m ³)	W	86.5" / 2197mm	218" (5537mm)	9600 LBS (4354kg)	126 KW	1,500,000	
	H	48" / 1219mm		H	87.5" / 2223mm					
	L	72" / 1829mm		L	105" / 2667mm					
SBF-448	W	48" / 1219mm	128 ft ³ (3.6 m ³)	W	86.5" / 2197mm	218" (5537mm)	12800 LBS (5806kg)	147 KW	2,000,000	
	H	48" / 1219mm		H	87.5" / 2223mm					
	L	96" / 2438mm		L	129" / 3277mm					
SBF-666	W	72" / 1829mm	216 ft ³ (6.1 m ³)	W	110.5" / 2807mm	266" (6756mm)	21600 LBS (9797kg)	192 KW	2,250,000	
	H	72" / 1829mm		H	111.5" / 2832mm					
	L	72" / 1829mm		L	105" / 2667mm					
SBF-668	W	72" / 1829mm	288 ft ³ (8.1m ³)	W	110.5" / 2807mm	266" (6756mm)	28800 LBS (13063kg)	216 KW	2,400,000	
	H	72" / 1829mm		H	111.5" / 2832mm					
	L	96" / 2438mm		L	129" / 3277mm					
SBF-868	W	96" / 2438mm	384 ft ³ (10.8m ³)	W	134.5" / 3416mm	266" (6756mm)	38400 LBS (17418kg)	240 KW	3,000,000	
	H	72" / 1829mm		H	111.5" / 2832mm					
	L	96" / 2438mm		L	129" / 3277mm					
SBF-886	W	96" / 2438mm	384 ft ³ (10.8m ³)	W	134.5" / 3416mm	314" (7976mm)	38400 LBS (17418kg)	288 KW	3,000,000	
	H	96" / 2438mm		H	135.5" / 3442mm					
	L	72" / 1829mm		L	105" / 2667mm					
SBF-888	W	96" / 2438mm	512 ft ³ (14.5m ³)	W	134.5" / 3416mm	314" (7976mm)	51200 LBS (23224kg)	330 KW	3,500,000	
	H	96" / 2438mm		H	135.5" / 3442mm					
	L	96" / 2438mm		L	129" / 3277mm					

Standard Features:

- Electric heaters arranged for maximum coverage
- SCR controlled
- NEMA 12 Control Panel (machine-mounted)
- Multi-function electronic timer with end-of-cycle indicator light (on control panel)
- Single button E-stop on control panel
- Oven chamber and hi-limit temperature controller
- Standard temperature uniformities at $\pm 25^{\circ}\text{F}$. Option for uniformities to $\pm 5^{\circ}\text{F}$.

Note: All furnaces can be customized to fit your needs and can be supplied with many options.