

MELLEN

BD BOX FURNACE

GENERAL INFORMATION

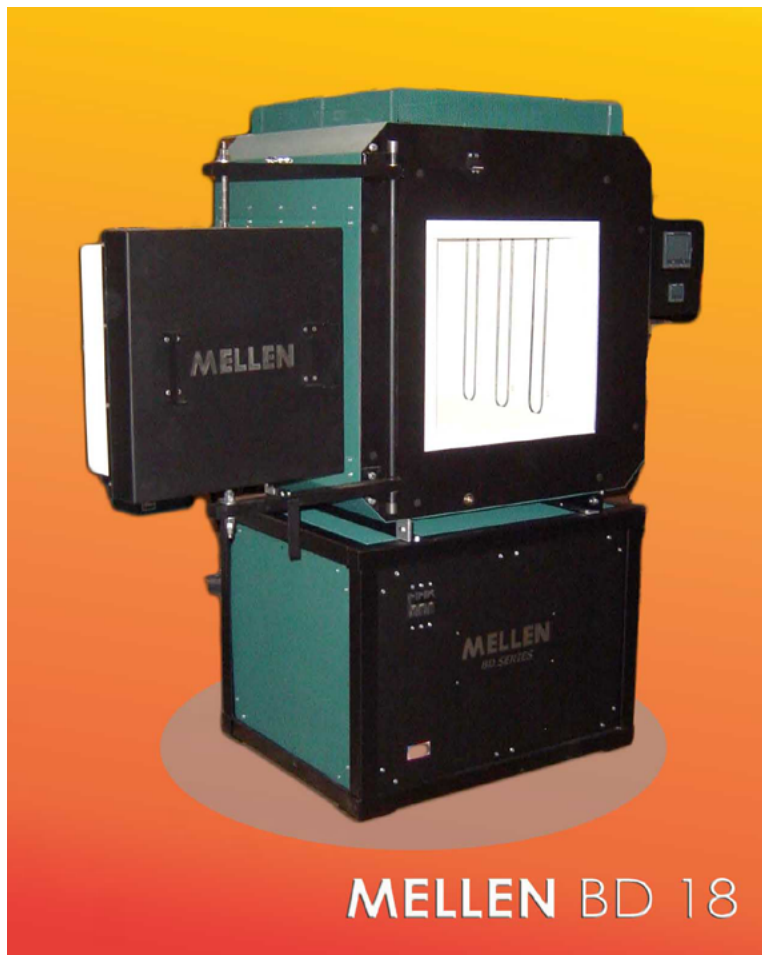
The furnace operates at temperatures up to 1800°C in air. It utilizes a reinforced, double-walled steel shell construction that provides a cooler exterior and maintains its shape after repeated thermal cycling. The shell is comprised of 1/8 inch thick sheet metal as well as 1/4 inch thick end plates. A double-pivoting door safely keeps the hot door face away from the operator when accessing the chamber.

HEATING ELEMENT

The furnace utilizes Moly Disilicide heating elements capable of 1800°C in air. They are operated with low surface-watt loading for longer life at elevated temperatures. The heating elements are field-replaceable and are strategically located to radiate uniformly to the internal chamber on all four sides. There are no power restrictions, even during heat up. When the furnace is idling at temperature, it is running well below the manufacturer's recommendations for watt density.

CONTROLLER

Sold Separately - Current-limited phase-angle fired power supply recommended.



MELLEN BD 18

SERIES	BD Box FURNACE
MAXIMUM TEMPERATURE	1800°C
ELEMENT TYPE	MOLY DISILICIDE
CONTROLLER	SOLD SEPARATELY
VOLTS	208V/240V
VALID PRICE DATE	2017



BD BOX FURNACE

MODEL NUMBER	HEATED LENGTH (WxHxD)	W	OVERALL DIMENSIONS (WxHxD)	LITER CAPACITY	MAXIMUM TEMPERATURE
BD17-6x6x6	6"x6"x6"	4700W	26"x31"x22"	3.5 L	1700°C
BD17-6x6x12	6"x6"x12"	8460W	26"x31"x32"	7 L	1700°C
BD17-9x9x12	9"x9"x12"	12500W	29"x35"x32"	16 L	1700°C
BD17-12x12x12	12"x12"x12"	18360W	32"x38"x32"	28 L	1700°C
BD17-12x12x18	12"x12"x18"	22950W	32"x38"x42"	42 L	1700°C
BD17-12x12x24	12"x12"x24"	27540W	32"x38"x47"	56.5 L	1700°C
BD17-12x12x36	12"x12"x36"	36720W	32"x38"x62"	84.95 L	1700°C
BD17-18x18x18	18"x18"x18"	41580W	38"x47"x42"	95.5 L	1700°C
BD18-6x6x6	6"x6"x6"	5640W	32"x35"x22"	3.5 L	1800°C
BD18-6x6x12	6"x6"x12"	8640W	32"x35"x32"	7 L	1800°C
BD18-9x9x12	9"x9"x12"	15000W	35"x39"x32"	16 L	1800°C
BD18-12x12x12	12"x12"x12"	22032W	32"x42"x32"	28 L	1800°C
BD18-12x12x18	12"x12"x18"	27540W	32"x42"x42"	42 L	1800°C
BD18-12x12x24	12"x12"x24"	33048W	32"x42"x47"	56.5 L	1800°C

Please note, all exterior dimensions are approximate.