# TEMPSENS

# Bottom loading furnace

## ▶ General Information

Bottom loading furnaces are designed for uniform thermal distribution inside the chamber, easy loading and unloading of sample with help of lifting arrangement



Maximum Temperature  : 1800 $^0$C

Working Chamber*     :   120(W) X 120(D) X 120(H) mm

Controller           :   PID based programmable controller

Controlling sensor   :   Thermocouple "B" type

Heating element      :   "U" MoSi2 Heating element

Insulation           :   Multiple layers of high temperature fiber insulation boards ensure minimum heat loss.

Time to reach max     :   1.5 Hr        temperature

Temperature uniformity  : approx +/- 5 $^0$C

Bottom lifting arrangement: Bottom lifting platform with D.C motor ensures smooth lifting with speed approx 10 mm/sec.

Total lift movement   :   Approx 200mm

Outer Construction    :   CRCA sheets duly powder coated.

Power supply          :   230V AC, 50 Hz

* Customized chamber size available on request.

| Model | Maximum Temperature($^0$C) | Internal Dimension* (HXWXD) (mm) | External Dimension (HXWXD) (mm) | Controlling Thermocouple | Heating Element |
|-------|------------------|----------------------------------|----------------------------------|--------------------------|-----------------|
| BLF - 1200 | 1200 | 120X120X120 * Customized chamber size available on request. | 1010X600X595 | N | Kanthal A1 |
| BLF - 1500 | 1500 | | 1010X600X595 | R | Silicon Carbide |
| BLF - 1800 | 1800 | | 1010X600X595 | B | MoSi$_2$ |

## ▶ Advantages

1. Easy loading and unloading of sample

2. Uniform Temperature distribution inside chamber

3. Fast Cooling

4. Low heat loss

5. smooth lifting arrangement