

## Industrial Furnace

### Standard feature:

- Maximum Temperature : 1200°C/1400°C/1600°C/1800°C.
- Temperature Control : Microprocessor Based PID Controller.
- Insulation : Bricks & Insulation board.
- Thermocouple with NABL certification.
- Safety Controller : For Over Heat Protection.
- Heating Element : FeCrAl / SiC / MoSi<sub>2</sub>.
- Power control through thyristor or SSR unit.

### Optional Features:

- Provision for gas/vacuum purging application (Ar, N<sub>2</sub>, O<sub>2</sub>, H<sub>2</sub>, CO<sub>2</sub> etc.)
- Programmable PID Controller with RS-232/RS-485/Ethernet & Data Logging Software.
- Available in standard or as per customer size requirement.

### Standard Application:

- Case Hardening.
- Ferritic Nitro Carburizing.
- Hardening.
- Die Heating.
- Solution Annealing / Solutionizing.
- Debinding / Dewaxing.
- Mould / Core Heating.
- Post Weld Heat Treatment.
- Normalizing.
- Pre-sintering /Sintering.
- Stress Reliving.
- Wire Annealing.
- Calciners.
- Carbonization.

## BOX CHAMBER FURNACE - CF



All high temperature furnaces are designed in the most advance technology for heat treatment application with high temperature accuracy. Chamber furnaces are usually rugged, refractory based construction or lightweight ceramic fiber board and insulation based in construction. Heating elements could be Nichrome, NiCr, FeCrAl, SiC, MoSi<sub>2</sub> silicon carbide or molybdenum disilicide depending on the temperature and process. These furnaces can be used for hardening, annealing, normalizing, sintering, tempering, stress relieving, pre-heating etc. The entire range, size and temperature can be determined by individual need and requirement. The door design can be Hinge Type or Vertical Lifting as per chamber size.

Model	Max Temp. (°C)	Effective Inner Dimensions HxWxD	Controlling Sensor	Heating Element
CF-900	900	Customized Size as Per Request	K Type	NiCr
CF-1200	1200		N Type	FeCrAl
CF-1400	1400		R Type	SiC
CF-1600	1600		B Type	MoSi <sub>2</sub>
CF-1800	1800		B Type	MoSi <sub>2</sub>

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