

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, Kanthal A1/APM, 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.



Standard features

- Maximum Temperature :
1200°C/1400°C/1600°C/1800°C
- Temperature Control : Microprocessor Based PID Controller
- Insulation : Ultra High Alumina Low Thermal Mass Insulation
- Thermocouple with NABL certification
- Safety Controller : For Over Heat Protection
- Heating Element : Kanthal APM / SiC / MoSi2
- Power control through thyristor or SSR unit

Standard Application

- | | |
|--------------------------------------|----------------------------|
| ✓ Case Hardening | ✓ Annealing |
| ✓ Decarb Annealing | ✓ Tempering |
| ✓ Ferritic Nitro Carburizing | ✓ Post Weld Heat Treatment |
| ✓ Hardening | ✓ Normalizing |
| ✓ Billet Heating | ✓ Pre-sintering |
| ✓ Die Heating | ✓ Sintering |
| ✓ Homogenizing | ✓ Stress Reliving |
| ✓ Solution Annealing / Solutionizing | ✓ Wire Annealing |
| ✓ Debinding / Delubing / Dewaxing | ✓ Brazing |
| ✓ Mould / Core Heating | ✓ Calciners |
| | ✓ Carbonization |

Technical Specification

Model	Max. Temp. (°C)	Effective Inner Dimensions	Effective Inner Dimensions	Heating Element
CF-900	900	Customized Size as Per Request	K Type	Nichrome
CF-1200	1200		N Type	Kanthal A1/APM
CF-1400	1400		R Type	SiC
CF-1600	1600		B Type	MoSi2
CF-1800	1800		B Type	MoSi2

Optional Features

- ✓ Provision for gas/vacuum purging application (Ar, N₂, O₂, H₂, CO₂ etc.)
- ✓ Programmable PID Controller with RS-232/RS-485/Ethernet & Data Logging Software
- ✓ Available in standard or as per customer size requirement

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