

◆ FCH Cabinet Furnace

Rugged construction for years of heavy-duty high temperature heat treating performance



The FCH Furnace features horizontal recirculating airflow to ensure exceptional temperature uniformity throughout the furnace. This high-performance furnace delivers temperatures up to 1350°F (732°C). Special Despatch long-life nichrome heaters, heavy-duty high-temperature fans and rugged construction throughout assure years of trouble-free performance. The FCH is built with a heavy steel exterior, type 304 stainless steel interior and has seven inches of insulation between the inner and outer walls. A tight sealing door is mounted on heavy cast strap hinges and has a no-slam type latch that assures a positive seal.

The FCH cabinet furnace is great for such processes as aging, brass annealing, low temperature porcelain enameling, steel tempering, wire annealing and stress relieving and other heat treating applications. It is ideal for production of small lot sizes or smaller parts.

Advanced control. Protocol 3™ is a microprocessor-based temperature and hi-limit controller with large LCD display and real time clock for auto start capability. The LCD display shows temperature readings along with clear, detailed information on oven status. Protocol 3™ features three operating modes for quick and easy operation: Manual mode, Timer mode and Profile mode. The data-logging functionality enables reporting and analyzing and data files can be exported via the controller's USB port. Modbus RS485 communications are included for easy data access.

FEATURES AT A GLANCE

- ◆ Temperatures to 1350°F (732°C)
- ◆ Fully assembled and factory tested
- ◆ Protocol 3™ control with large LCD display, integrated data logging capabilities and USB port for simple oven set-up and data export
- ◆ Type 304 stainless steel interior
- ◆ Horizontal recirculating airflow



PHYSICAL SPECIFICATIONS

Chamber size (A) width* x (B) depth x (C) height *24 in. width (61 cm) between shelf supports	26 x 36 x 24 in. 66 x 91.5 x 61 cm
Capacity in cubic feet (liters)	12 (340)
Overall size (D) width x (E) depth x (F) height	89 x 54 x 76 in. 226 x 137 x 193 cm
Electrical: 60 hertz - three phase 480 Volts	48 FLA
Capacity per shelf	200lb/91kg
Maximum number of shelves (two provided)	7 on 3 in. centers
Shelf dimensions (width x depth)	25.25 x 35.5 in. (64 x 90 cm)
Approximate shipping weight	4100 lbs (1860 kg)

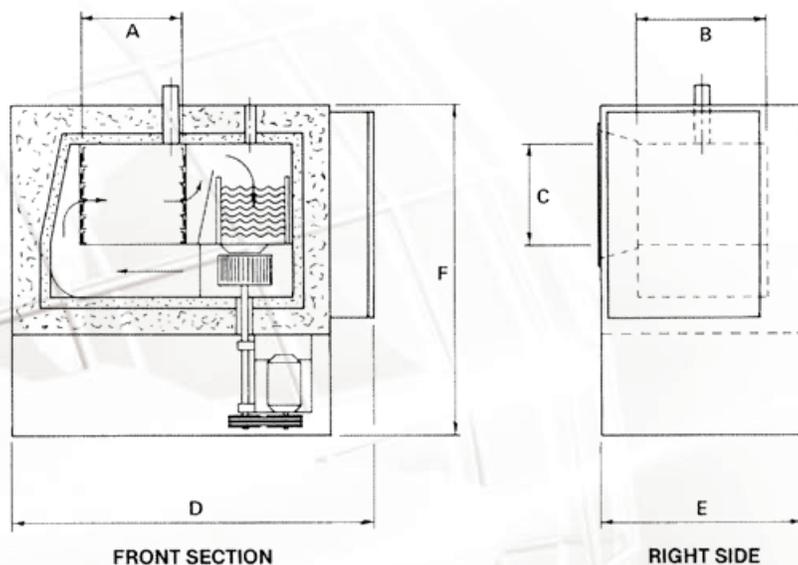
FUNCTIONAL SPECIFICATIONS

Time to temp with no load (70°F to 1350°F)	81 minutes
Temperature uniformity (Based on 9 point test in empty oven)	+/- 12°F at 1000°F
Operating range with 70°F ambient	200°F - 1350°F
Control stability	+/-0.5°F
Maximum load capacity	400 lbs. (182 kg)
Recirculating fan	5 HP
Exhaust capacity with exhaust fan	936 CFM

OPTIONS

- ◆ Despatch unique adjustable louvers
- ◆ Automated dampers for cooling
- ◆ Audible alarm
- ◆ Access ports for test wires
- ◆ Chart recorder
- ◆ A Class A version is available which is specifically designed to meet NFPA 86 requirements for applications that include flammable solvents or large amounts of moisture removal. This Class A furnace is complete with a pressure relief panel, purge timer, and exhaust fan.

Notes: Uniformity figures are based on a nine-point test conducted in an empty oven after stabilization period. Uniformity can vary slightly depending on unit and operating conditions. Minimum operating temperature and cooling times are based on 20°C ambient temperature measured at the fresh air inlet with the fresh air and exhaust dampers fully open. Specifications are subject to change without notice.

**SERVICE AND TECHNICAL SUPPORT**

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