

### ◆ PTC Non-Magnetic Oven

For burn-in and qualification testing of down-hole electronic logging equipment



The PTC Non-Magnetic Test Oven is specifically designed for burn-in, qualification testing and calibration of electromagnetic downhole drilling instruments. In the field, these ovens are used for periodic calibration of the electronics on the drill tool. The oven simulates the downhole temperature conditions and validates that the instruments will work properly and accurately throughout the run.

The non-conductive oven is constructed with a fiberglass body and structural supports and is built to withstand the harsh oilfield environment. High-velocity, vertical down airflow with adjustable louvers ensures uniform airflow across the entire length of the chamber.

PTC ovens come equipped with the Protocol 3™ microprocessor-based temperature and hi-limit controller with a large LCD display and real time clock for auto start capability. It features three operating modes: Manual, Timer, and Profile. The data-logging functionality enables reporting and analysis, and data files can be exported via the controller's USB port.

#### FEATURES AT A GLANCE

- ◆ Fiberglass oven body construction with fiberglass structural supports
- ◆ 12, 15 and 24 foot lengths
- ◆ Operating range 266° F (130° C) to 356° F (180° C)
- ◆ Non-magnetic/non-metallic model
- ◆ High velocity vertical down airflow for uniform airflow, even with varying load conditions
- ◆ Custom configurations available



## STANDARD FEATURES

- ◆ Temperatures up to 180° C (356° F)
- ◆ Fiberglass oven body construction with fiberglass structural supports and painted exterior.
- ◆ Heater and fan compartment at one end, separated from the workspace.
- ◆ High velocity vertical down airflow for uniform airflow, even with varying load conditions.
- ◆ Multiple door sections with fiberglass seal and tight closing latching mechanism allow full access to the workspace.
- ◆ Pre-wired NEMA rated control enclosure mounted to the heater compartment.
- ◆ Fast response open coil electric heater operated by solid state relays.
- ◆ Removable marinite end plates can be machined to insert instruments or tooling.
- ◆ Completely assembled, pre-wired and tested prior to shipment.
- ◆ Custom chamber lengths
- ◆ Digital, three-mode PID control for precise temperature control
- ◆ High-limit control with manual reset for protection against over-temperature
- ◆ Optional oven base casters for portability

**Small Footprint** – The PTC ovens are designed with fans and controls located below the work chamber to minimize floor space.

**Performance** – Louvers for uniform airflow.

**Reliability/Repeatability** – Consistent, repeatable performance in a small package. Rugged designs for long term reliability, units are low maintenance.

	12 FT LENGTH	15 FT LENGTH	24 FT LENGTH
<b>PHYSICAL SPECIFICATIONS</b>			
Work chamber dimensions (width x depth x height)	365.8 x 17.8 x 30.5 cm 144 x 7 x 12 in.	457.2 x 17.8 x 30.5 cm 180 x 7 x 12 in.	731.5 x 22.9 x 30.5 cm 288 x 9 x 12 in.
Overall dimensions (width x depth x height) *Does not include dolly which adds 9 inches (23.9 cm)	459.7 x 144.8 x 161.3* cm 181 x 57 x 63.5* in.	561.3 x 152.4 x 163.8* cm 221 x 60 x 64.5* in.	829.3 x 156.2 x 179.1* cm 326.5 x 61.5 x 70.5* in.
Workspace length (Custom lengths available)	365.8 cm (12 ft)	457.2 cm (15 ft)	731.5 cm (24 ft)
Single phase voltage (Three phase also available)	208v or 240v	208v or 240v	208v or 240v
<b>FUNCTIONAL SPECIFICATIONS</b>			
Operating range Based on 68° F (20° C) ambient temperature	130° C (266° F) to 180° C (356° F)	130° C (266° F) to 180° C (356° F)	130° C (266° F) to 180° C (356° F)
Chamber temperature uniformity	+/- 2.8° C (5° F)	+/- 2.8° C (5° F)	+/- 2.8° C (5° F)
Recirculating fan motor (Custom sizes available)	1 HP - 519 LPS (1100 CFM)	3 HP - 944 LPS (2000 CFM)	55 HP - 1699 LPS (3600 CFM)
Heater capacity (Other sizes available)	12 KW	16 KW	16 KW
Operating voltages (Custom voltages available) 120 volt control circuit -step down transformer included	208v/3phase/60Hrtz	208v/3phase/60Hrtz	208v/3phase/60Hrtz

*PTC models are not to be used with flammable solvents, materials or enclosed containers. If your process involves flammable solvents, consult the factory.*

## SERVICE AND TECHNICAL SUPPORT

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