

### ◆ 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 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 and 20 foot lengths
- ◆ Operating range 266° F (130° C) to 400° F (204° C)
- ◆ Non-magnetic/non-metallic model
- ◆ High velocity airflow with adjustable louvers for temperature uniformity throughout the chamber, even with varying load conditions



12ft front-load  
non-magnetic  
PTC model

**Performance** – Marinite louver panels for uniform airflow.

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

### STANDARD FEATURES

- ◆ Temperatures up to 400° F (204° C)
- ◆ Fiberglass oven body construction with fiberglass structural supports and painted exterior.
- ◆ Heater and fan compartment at one end, separated from the workspace.
- ◆ High velocity airflow with adjustable louvers for temperature uniformity throughout the chamber, even with varying load conditions
- ◆ Multiple door sections with silicone 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.
- ◆ Protocol 3™ controller, with manual, timer and profile modes, complete with manual reset high limit



	12 FT LENGTH	20 FT LENGTH
<b>PHYSICAL SPECIFICATIONS</b>		
Work chamber dimensions (width x depth x height)	144 x 9 x 12 in. 366 x 23 x 30.5 cm	288 x 9 x 12 in. 731.5 x 22.9 x 30.5 cm
Overall dimensions (width x depth x height)	185 x 63 x 64 in. 470 x 160 x 163 cm	326.5 x 61.5 x 70.5 in. 829.3 x 156.2 x 179.1 cm
Workspace length	12 ft (366 cm)	20 ft (610 cm)
Three phase voltage	480v	480v
Configuration/Airflow	Front load/vertical down	Top load/horizontal
<b>FUNCTIONAL SPECIFICATIONS</b>		
Operating range Based on 68° F (20° C) ambient temperature	150° F (66° C) to 400° F (204° C)	150° F (66° C) to 400° F (204° C)
Chamber temperature uniformity	+/- 5° F (+/- 2.8° C)	+/- 5° F (+/- 2.8° C)
Recirculating fan motor (Custom sizes available)	3 HP - 1200 CFM (566 LPS)	5 HP - 2000 CFM (944 LPS)
Heater capacity (Other sizes available)	16 KW	32 KW
Operating voltages (Custom voltages available) 120 volt control circuit -step down transformer included	480v/3phase/60Hrtz	480v/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

service parts: 1-800-473-7373  
international service/main: 1-952-469-8230  
service fax: 1-952-469-8193  
service@despatch.com  
usparts@itweae.com

### GLOBAL HEADQUARTERS

main phone: 1-800-726-0110  
international/main: 1-952-469-5424  
sales: 1-800-726-0550  
international/sales: 1-952-469-8240  
sales@despatch.com

### WWW.DESPATCH.COM

8860 207th Street West  
Minneapolis, MN 55044 USA

**Despatch**  
Thermal Processing Technology **ITW EAE**