



# The Powrmaster TE Range

**Users Instructions**

**WARNING: THIS APPLIANCE MUST BE EARTHED**

£1.00 When supplied separately.

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## **Addendum to Instructions**

Please note that Powrmaster TE units are now fitted with Eurotrol 2 controllers, instructions for which are enclosed with the heater.

## 1. Checks before lighting the Air Heater

The following preliminary checks should be made before lighting the heater(s)

- a) Ensure that the ELECTRICAL supply to the heater is switched OFF.
- b) Check that all warm air delivery outlets are clear.
- c) Check that the thermostat, if fitted, is set at MAX.
- d) Check that the clock control is set to an ON period.
- e) Check that any other controls are calling for heat.
- f) Ensure that the Summer/Winter switch is in the Winter position.
- g) Check that the overheat reset button has not operated.

## 2. Lighting the Air Heater

**NOTE:** On initial lighting of the heater(s), it may take some time to purge the internal pipework of air. If it is not possible to light the heater after several attempts contact the local service company.

1. Switch on the electrical supply at the isolator and turn the control panel mode switch to 'AUTO'. The burner start-up sequence will commence. The burner air fan will run and after a pre purge period of approximately 30 seconds the ignition spark will be generated.

The start gas valves will be opened and a start gas flame established.

**NOTE:** *If the main burner or a start gas flame fails to establish the burner will go to lockout and the lockout indicator / reset button on the main electrical panel will be illuminated. To restart the burner push the lockout reset button.*

When a start gas flame is established the main gas valves will be energized and the start gas flame will expand to main flame. If the unit will not light after four or five attempts then shut down the unit and call in a service engineer.

## 3. To Shut Down the Air Heater

3.1 **For Short Periods:** Turn the control panel mode switch to 'OFF'.

3.2 **For Long Periods:** Turn the control panel mode switch to 'OFF'. Wait approximately 4-5 minutes for the main air fan of the heater to stop running

and then turn off the gas and electric supplies to the heater.

## 4. Description of Operation

**Important:** The heaters must be controlled by the fitted internal controls, and any external controls that the specification calls for, and not by use of the main switch in the electrical supply to the heater.

The heater main air fans will run continuously during time clock on periods (*See 4.1 Mode Switch*). The burner start up sequence will commence each time that the controls call for heat. The burner air fan will run and after a pre purge period of approximately 30 seconds the ignition spark will be generated.

The start gas valves will be opened and a start gas flame established, the main gas valves will then be energized and the start gas flame will expand to main flame. If a modulating burner has been specified the heat input will now be modulated with respect to the return air temperature.

If, when the burner is continuously at low fire, the return air temperature continues to rise the burner will be switched off.

### 4.1 Mode Switch

**Off:** The heater does not operate. Note that if the mode switch is moved to OFF whilst the heater is running both the burner and fans will continue to operate for a short period until control sequences are completed.

**Auto:** The heater will operate normally. ie During time clock 'ON' periods the burner will operate to the temperature

set point of the Eurorol OSII, and modulate heat input, relative to return air temperature and the heater fans will run continuously.

**Man:** The internal heater controls are overridden, Both the fans and burner will run continuously. The burner heat input will be modulated with respect to the return air temperature.

## 5. Fan and Limit Control

The fan and limit controls are mounted towards the top of the heater centre front panel.

### Limit Thermostat Reset

In the event of a fault that causes the temperature of the air leaving the air heater to rise significantly e.g. Blocked air inlets, the limit thermostat will operate to shut down the burner. Remove the cause of the fault, wait 10 minutes and then reset the thermostat by pushing the green reset button. If the limit thermostat continues to operate turn off the air heater and call a service engineer.

## 5. Maintenance

Regular servicing is essential to maintain efficient, reliable and safe operation of the heater. Users are strongly recommended to have the heater serviced at least annually and preferably at the end of the heating season.

## 6. IMPORTANT

Free access must be maintained to and around the heater for servicing purposes and the air supply to the heater must not be restricted in any way. Combustible materials must not be stored adjacent to the heater. If at any time a gas leak is suspected turn OFF the gas supply - DO NOT USE A NAKED FLAME - and contact the local gas undertaking immediately.

## Gas Safety (Installation & Use) Regulations 1994

It is law that all gas appliances are installed, adjusted and, if necessary, converted by qualified persons\* in accordance with the above regulations. Failure to install appliances correctly can lead to prosecution. It is in your own interests and that of safety to ensure that the law is complied with.

\* e.g. Corgi Registered



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