Assembly Instructions
Gas & Oil Fired Heaters
Direct Drive Fans

1. Mounting the fan module
Place the fan module on a level noncombustible floor capable of supporting the weight of the heater. Fan module should be fixed to the supporting structure beneath by use of 4 x throughbolts or equivalent (not supplied). This will prevent any movement brought about by vibration whilst the heater is in operation.

2. Mounting the heat exchanger module
The heat exchanger section should be aligned on top of the fan section.

3. Connect the section
Use the section joining brackets to connect the separate sections together. The folded brackets should be fitted to connect the corners; the flat brackets should be fitted to connect the sides of the sections. Use the M8x25 bolts & washers (supplied).

4. Mounting the extension module (if required)
The extension section should be aligned on top of the heat exchanger section and secured using section joining brackets.

5. Mounting the air outlet module
The air outlet section should be aligned on top of the extension section and secured using section joining brackets.

6. Connect the flue
The flue tee should be secured to the heat exchanger flue port by self cutting screws. Connect suitable pipework to the condense drains from the flue tee and heat exchanger to drain off condense. The flue stack will need to be supported using suitable flue support brackets attached to an adequate supporting structure provided by the building. Contact Powrmatic for further details on the flue support bracket options available.

7. Connect the Burner
Burner cable plugs will need to be connected to the burner cable sockets attached to the burner.

8. Connect up the electrics
Connect power supply cables and wire according to the supplied wiring diagram. Other wiring (e.g. controls) may be required and should only be wired according to the supplied wiring diagram. Fan/limit thermostat cables from the fan section will need to be connected the terminal block in the black box on the side of the heat exchanger section. Ensure all cable colours are matched.

9. Check operation
Fully commission the heater and check for full operation. NB. Control panel may differ from that shown, depending on the choice of controls.
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![Image of the extension module]
5. Mounting the air outlet module

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10. TE Powrmaster Heater Dimensions

Note: TE 21 Fans and Combustion chamber/Heat exchanger are in one section

<table>
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<th>Model</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
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<tr>
<td></td>
<td></td>
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Specifications, Burner Pressures and Electrical Data.

TE heaters are designed to suit individual applications. Please refer to the enclosed specification sheet for the data specific to the heater supplied.

Note: The number of extension modules (0 - 2) depends on the application.
2.3 Electrical Cable Installation

1. Mounting the fan module
   Place the fan module on a level noncombustible floor capable of supporting the weight of the heater. Fan module should be fixed to the supporting structure beneath by use of 4 x throughbolts or equivalent (not supplied). This will prevent any movement brought about by vibration whilst the heater is in operation.

2. Mounting the heat exchanger module
   The heat exchanger section should be aligned on top of the fan section.

3. Connect the section
   Use the section joining brackets to connect the separate sections together.
   The folded brackets should be fitted to connect the corners; the flat brackets should be fitted to connect the sides of the sections. Use the M8x25 bolts & washers (supplied).

4. Mounting the extension module (if required)
   The extension section should be aligned on top of the heat exchanger section and secured using section joining brackets.

5. Mounting the air outlet module
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6. Connect the flue
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   Fan/limit thermostat cables from the fan section will need to be connected to the terminal block in the black box on the side of the heat exchanger section. Ensure all cable colours are matched.

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More information is available from our web site on:-
http://www.powrmatic.co.uk/products/heating/browse/view/product/te-warehouse-heater/