



FACT FILE 038

Useful Facts Radiant Boilers

<p>Dead Boiler</p>	<p>Check water pressure on gauge and LED Check power at source & at boiler [240V] Check fuse on Main PCB</p>	<p>Boiler fires then goes to overheat</p>	<p>Check Pump [Jammed or failed] Check 3 Port valve [for debris or failure]</p>																
<p>Water Pressure Switch</p>	<p>Test by fitting link between 43 & 44 [M9] on Main PCB If room sealed model flue sensor (30 LED flashes) this may indicate either a pressure switch, fault or heating sensor fault</p>	<p>Lack of hot water</p>	<p>3 port valve [with head removed] head motors open & closes continuously head Faulty [replace] Valve body spindle should push in and out easily, if not remove cartridge and replace same</p>																
<p>Power Supply failure</p>	<p>Check polarity Check PCB fuse, if this has blown, this indicates a mains fault, check Fan & Pump, Check fan for burnt or water marks on windings</p>	<p>Boiler attempts to fire But no ignition or flame</p>	<p>Check high limit stat Check in coming gas rate Check ignition electrodes and wires for damage etc.</p>																
<p>All lights flashing Intermittently</p>	<p>Hot water setting Low water pressure just on top up pressure Lights stop when Heating is switched on Increase water pressure to 1.5 bar to stop</p>	<p>Main PCB</p>	<p>Fan & Pump get power from PCB if no power is detected (and water pressure switch is OK) PCB may be suspect</p>																
<p>Hot water selected</p>	<p>No demand light on Check flow switch by linking out on [M9] 41 & 42 Check flow switch piston and filter for debris</p>	<p>P4</p>	<p>Ignition start up Remove Jumper from CM2 and fit on CM RLA adjust ignition on P4 with screwdriver</p>																
<p>Boiler fires but only runs On low fire</p>	<p>Check wiring to the gas valve PCB Check Gas valve PCB is installed correctly Check gas rate settings Check boiler has been commissioned correctly [re-commission]</p>	<p>P5</p>	<p>Anti cycling timer 0 - 7 minutes, set with arrow pointing down ½ way</p>																
<p>Hot water pump over run When in winter position</p>	<p>Runs approximately 90 seconds</p>	<p>P3</p>	<table border="0"> <tr> <td>Heating output</td> <td>High</td> <td>NG</td> <td>13.7 mbrs</td> </tr> <tr> <td></td> <td>Low</td> <td>NG</td> <td>04.2 mbrs</td> </tr> <tr> <td></td> <td>High</td> <td>PG</td> <td>32.0.Mbrs</td> </tr> <tr> <td></td> <td>Low</td> <td>PG</td> <td>00.6 Mbrs</td> </tr> </table>	Heating output	High	NG	13.7 mbrs		Low	NG	04.2 mbrs		High	PG	32.0.Mbrs		Low	PG	00.6 Mbrs
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<p>HWS sensor failure</p>	<p>40° LED flashes [replace]</p>	<p>Boiler fan runs slow speed, fan will not go to high speed Boiler stops on call for heat</p>	<p>Check out PCB voltages, DO NOT CHANGE MAIN PCB until after leads to fan & air Pressure switch have been replaced</p>																
<p>Heating sensor failure</p>	<p>50° LED flashes [replace]</p>	<p>We have found that faulty lead to Air pressure switch & fan are the cause Of Main PCB (relay) failure</p>																	

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