

FACT FILE 037

Useful Facts Radiant Boilers

HOT WATER

Sensor Failure
(Top Right)

-
Fault on Water

Flow switch:

Air Pressure Switch Failure

Fan Failure

Ignition starts but No Flame

Ignition starts,
flame lights, goes out
Boiler lock out light on

Boiler fails to ignite but gas
valve opens

SYMPTOMS

Pump runs continuously only, no further
action

Check by linking connections on

Main PCB (14 & 15)
Check hot & cold water connections
are piped correctly
Check flow switch piston for debris
Check flow switch operates with
Magnet placed on main body

Fan & Pump run
Disconnect tubes, suck or blow to
check switch operates
Remove Fan and clean blades
Check venturis are clean
Replace Air pressure switch
[59006LB]

Pump does not run check
continuity
Check there is 240 volts at Fan if
OK, replace fan

Check incoming Gas NG 20 mbrs
LPG 32 mbrs
Check electrode gaps [2 mm gap]
Check ignition gaspressure from test point
on gas valve, this is adjustable by the
wheel on ignition box toward you to
increase, away from you to decrease
Check gas valve opens

New installations check polarity
Check ionisation probe gap [5 mm]
Check all leads / connections on PCB
Replace ignition box / PCB
Lead or spark gap incorrect
Ignition box failure [replace]

CENTRAL HEATING

Boiler fires then goes off
Heating on, but no heating

Heating is selected but nothing
Works

Boiler not working at all
Low pressure LED on

Water pressure fault
Pressure rise above 4 bar
Discharges from blow off pipe

Pump runs but burner does
not light

Pump Jammed
Isolating valves in off position
TRV valves all off

Check clock is calling
Check Room stat (if fitted)
If HW is not working either Primary sensor
failure [Replace [73507LA]

Check water pressure, lightly tap gauge to
ensure gauge is not stuck
Check water pressure switch [link out M2
on main PCB terminals 9 & 7

Check pressure in expansion vessel
With pressure in system at zero expansion
Vessel pressure should be 1 bar, then
Re pressurise system to 2 bar

Remove water pressure switch plug top,
place a link between C & 3, if boiler fires
replace water pressure switch



Radiant Technical Help Line 01329 - 828555