HOUNSFIELD BOILERS

HANDBOOK AND SERVICE LOG

MODEL	
12/19	
20/25	
26/30	
50/70	
75/95	

BOILER SERIAL NUMBER: _____

Warranty registration

Your boiler is guaranteed for five years, we have a "no-quibble" policy which covers all components. For heat exchangers after the warranty period we have a discounted pricing structure based on age, the full cost being charged in year eleven.

Terms and conditions of warranty

We use the very best materials and engineering practice in the construction of our boilers, your boiler will provide many years service. Properly engineered product doesn't require reams of small print or get out clauses, our terms and conditions are concise:

1. Boiler warranty must be registered within thirty days of installation.

2. Ensure your boiler is serviced annually, validation in the form of service invoices must be retained.

3. Warranty work must be approved and authorised by Hounsfield boilers Ltd.

4. Normal service replacement items are excluded.

5. The Hounsfield oil filter kit and fire valve supplied with the boiler must be installed.

6. The Hounsfield life-long Teflon cored stainless steel flexible oil line must be retained..

7. Failure of components caused by non compliant installation or industry good practice are excluded.

Dear Home owner

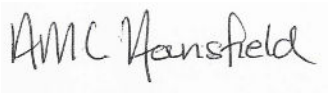
Thank you for investing in a Hounsfield Boiler, we know you'll be pleased with your new purchase.

Please familiarise yourself with the controls and operation of your boiler set out in this document.

Please ensure your boiler warranty is registered with Hounsfield Boilers Ltd. Our warranty is industry leading, however we do ask that you follow our the terms and conditions.

Our best sales generator is "word of mouth" please pass the additional brochure supplied with your boiler to a friend or neighbour.

Kind regards



Andrew Hounsfield

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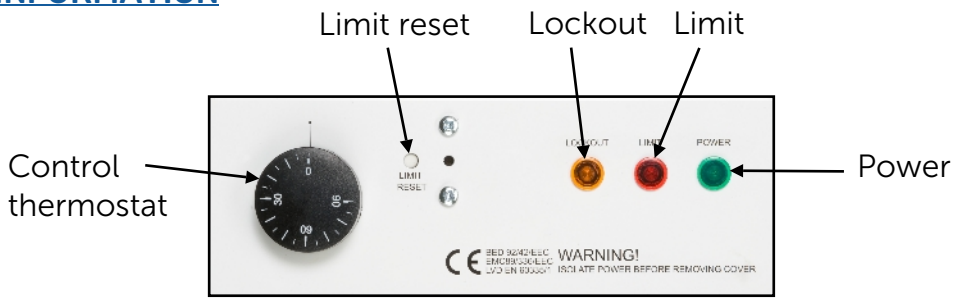
USER INFORMATION



Control thermostat

Controls the temperature of water within the boiler. For condensing boilers the temperature is preset to a maximum 70^0C, for non-condensing boilers 80^0C. A lower set point will increase boiler efficiency and in turn reduce fuel consumption.

Power neon

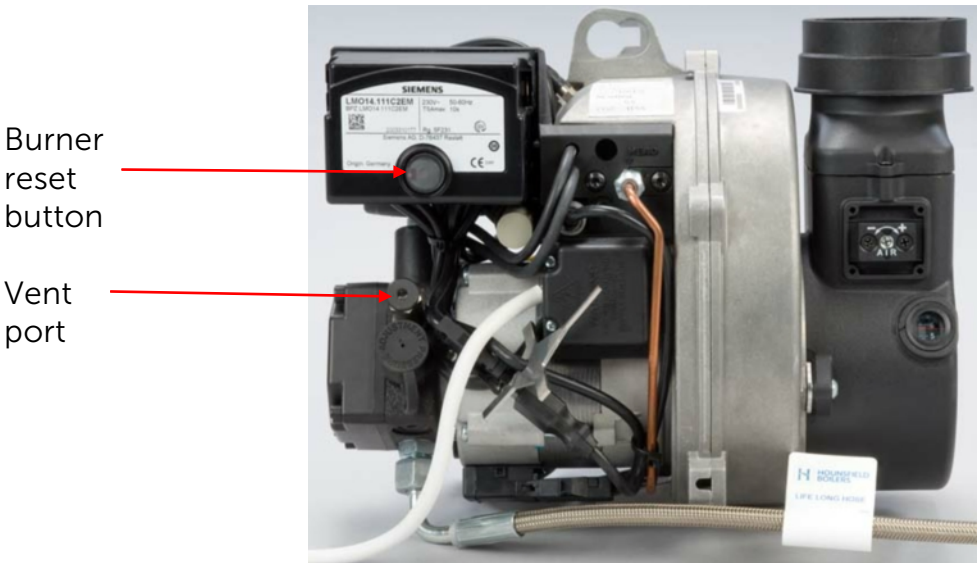
The green neon is illuminated when the heating system is switched on, via a room thermostat or the domestic hot water cylinder thermostat.

Limit neon and limit reset button

The red neon is illuminated when the boiler has over heated. To reset wait for the boiler to cool down, then press the reset button. Call your engineer if this happens frequently, it's indicative of poor water circulation within the heating system.

Lockout neon and lockout reset button

The amber neon is illuminated when burner ignition has failed, this is a safety feature. To reset the burner, wait for two minutes then press the burner reset button.



Priming the burner if you run out of oil

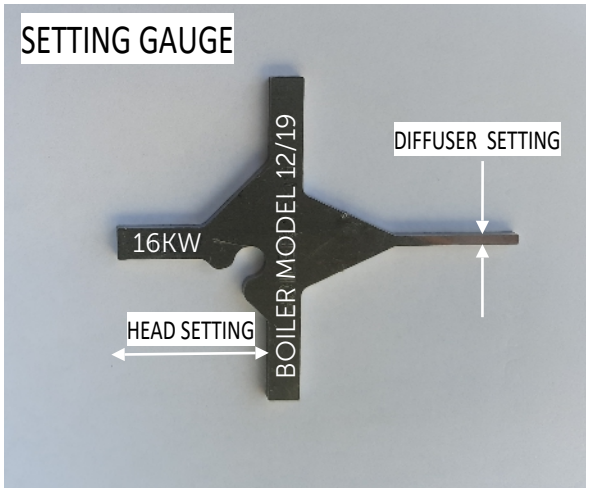
Use the 4 mm allen key located inside the boiler casing. Slacken the vent port plug, do not remove it. Press the reset button, the firing sequence will commence, gradually open the vent plug to purge air from the oil line. If ignition fails after a few attempts call your service engineer, the injector nozzle probably needs replacing.

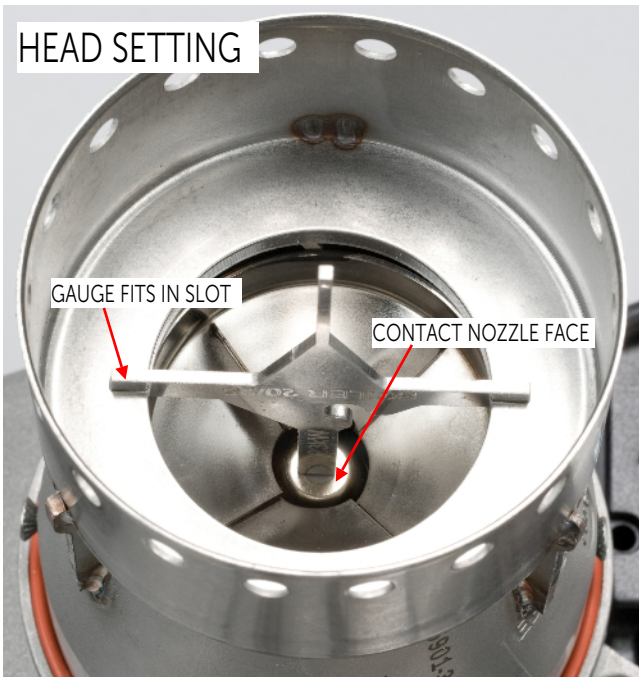
SERVICE ENGINEER'S INFORMATION

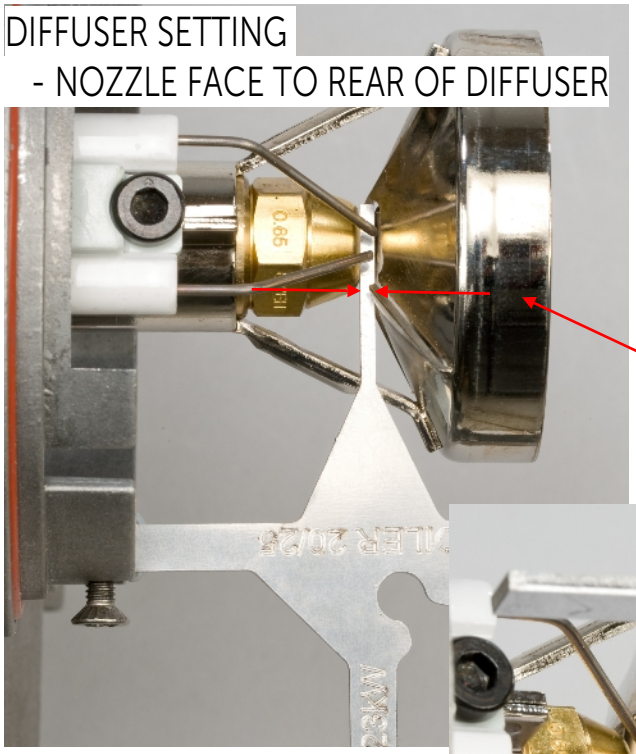
WARNING

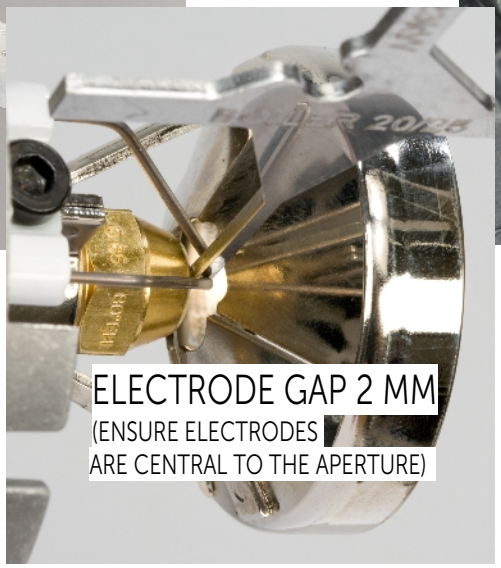
This section provides information for service engineers. Our burners are at the forefront of burner technology, under no circumstances should any adjustments be made without an electronic combustion analyser and associated equipment and essentially the competence of a qualified professional.

1. Burners are factory set and test fired, but will require commissioning after installation.
2. A setting gauge is supplied with every boiler to check critical dimensions.
3. To change the factory set output a different gauge is required - see table.









Burner service video

BOILER MODEL		12/19 CONDENSING				20/25 CONDENSING			26/30 CONDENSING			50/70 NON CONDENSING			75/95 NON CONDENSING		
OUTPUT	K/W	12	14	16*	19	20	23*	25	26	28*	30	14	16*	19	22	25*	28
	BTU/HR.	41000	48000	55000	65000	68000	78000	85000	89000	96000	102000	48000	55000	70,000	75000	85000	95000
NOZZLE	DANFOSS	0.35/60° S	0.4/60° ES	0.45/60° ES	0.55/60° ES	0.6/60° ES	0.65/60° ES	0.75/60° ES	0.75/60° ES	0.75/60° ES	0.85/60°ES	0.40/60° ES	0.45/60° ES	0.55/60° ES	0.65/60°ES	0.75/60° ES	0.85/60° ES
OIL PRESSURE	PSI	120	115	115	115	115	120	110	120	145	120	115	130	125	120	115	115
FIRING RATE kg/h ±4%		1.02	1.22	1.38	1.64	1.73	1.98	2.14	2.24	2.43	2.56	1.26	1.43	1.7	1.94	2.24	2.5
FIRING RATE ltrs./h ±4%		0.81	0.96	1.09	1.3	1.37	1.56	1.69	1.77	1.92	2.02	1	1.13	1.34	1.53	1.77	1.98
SETTING GAUGE PT.NO.		BS0070	BS0071	BS0072	BS0073	BS0074	BS0075	BS0076	BS0077	BS0078	BS0079	BS0080	BS0081	BS0082	BS0083	BS0084	BS0085
DIFFUSER SETTING ± 0.1 MM		2	2	2	2	2	2	2	3	3	3	2	2	2	3	3	3
NOMINAL AIR SETTING		0.4	0.8	1.2	1.6	3	3.6	4.2	5	5.4	6	1.2	1.5	1.9	4.2	5	5.6
CO2%		12.5				12.5			12.5			12.5			12.5		
CO (PPM) **		10.5				9			7			8.7			8.4		
NOx (PPM)**		59.2	58	58.2	57.6	59.7	60.1	61	63	56.7	57.5	57.6	58	59	57	56.4	61
NOx to ERP calcs. (mg/kWh)**		106.8	105.2	104.7	103.6	102.4	104.3	109.7	111	109	109	107	109	109	108	107	112
FAN PRESSURE		2.3	2.3	2.25	2.25	2.2	2.5	2.6	3.6	3.8	3.6	3.2	3.3	3.6	3	3.3	3.6
ELECTRIC ABSORBED (W)**		131	130	130	129	128	129	134	170	165	160	160	162	165	165	162	165
EFFICIENCY NETT %		96-97				96-97			96-97			93			93		
FGT DEG. oC @ NOMINAL 60oC RETURN, 80OC FLOW		67				75			80			140			140		
FGT DEG. oC @ NOMINAL 50oC RETURN, 70OC FLOW		60	61	67	75	68	74	79	72	74	76	N/A			N/A		

* FACTORY SETTING ** LABORATORY TEST RESULTS * FACTORY SETTINGS SMOKE NUMBER "0" Doc. Ref LI0020 Issue 4

Siemens electronic control box diagnostics codes Pt.no. LMO14.111C2EM compatible with mechanical box LOA24.171B27EM			
	Reset button colour	Status	
1	Flashing yellow	Ignition phase	
2	Solid green	Normal operation	
3	Flashing green	Poor flame - refer line 9 for corrective action	
4	Flashing green & red	False light on burner start up	
5	Flashing yellow-red	Under voltage	
6	Solid red	Lock-out - fault alarm	
7	Flashing red	A number of flashes with a pause between communicates an error code - see below.	Pressing the reset button 3 seconds or more activates the error code mode. Pressing the reset button again for 3 seconds or more activates the diagnostics mode. To deactivate press the button for 1 second, or remove control box to reboot.
8	Flickering red	Communication mode for connection to a computer	

When a solid red light is illuminated, you can get information about what has caused the problem by pressing & holding the reset button for 3 seconds. The number of flashes is is repeated with a pause between.

	Fault code	Cause	Typical faults that cause lockout
9	2 flashes	No flame when ignition safety time expires	- lack of fuel supply - faulty nozzle - poor burner adjustment - faulty solenoid coil
10	4 flashes	False light during start	
11	7 flashes	Too many losses of flame during operation.	check corrective action for 2 flashes
12	10 flashes	Incorrect wiring, internal fault or simultaneous occurrence of two faults	
13	Return to normal operation, press reset button for 1 second or remove control box to reboot		

SERVICE LOG

YEAR	DATE	YEAR	DATE
1		11	
2		12	
3		13	
4		14	
5		15	
6		16	
7		17	
8		18	
9		19	
10		20	

Service engineer's contact details

Business / contact name:

Mobile: Tel.: Email:

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