The new Sime series of cast iron sectional boilers is an exciting addition to the quality portfolio of hot water products available exclusively from Powrmatic.

These boilers have been designed and manufactured to the highest quality standards and meet all current European legislation. This value engineered series offers high efficiency, quiet and clean operation, reliability, ease of installation and maintenance, and perhaps more importantly, user friendliness.

At the heart of advanced heating

The extensive series of boilers consists of five ranges, available in heat outputs from 19kW to 279kW, providing ideal solutions for domestic, commercial and industrial applications.

Atmospheric Gas Fired

CE

RX
30kW - 60kW

RMG
70kW - 99kW

RS
107kW - 279kW

Oil Fired

Estelle
19kW - 48kW

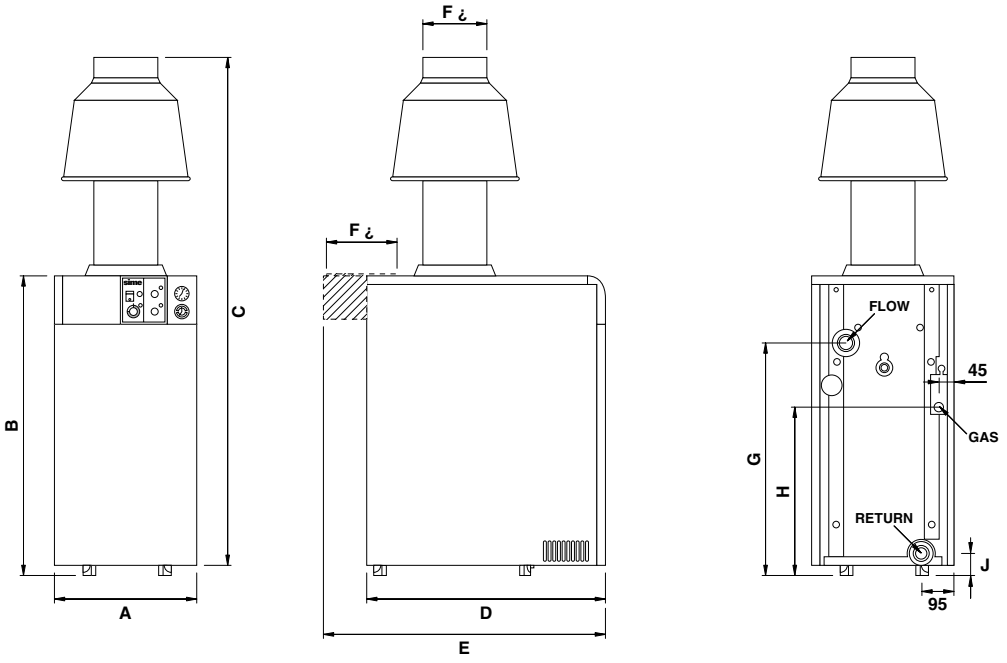
1R-2R
61kW - 267kW

Available direct from Powrmatic or through our nationwide network of approved distributors and stockists, Sime boilers are backed by the quality technical sales and service support one would expect from the UK's leading H & V equipment manufacturers.

Atmospheric Gas Fired

RX boilers are a quality range of atmospheric gas fired units with four output models from 30kW to 60kW. The aesthetically pleasing appearance ensures suitability in any application, be it domestic or small commercial.

- CE approved
- Clean and quiet operation
- Full safety and operating controls
- Electronic ignition
- Suitable for natural gas as standard - LPG to special order
- Available in four output sizes, 30kW to 60kW
- Suitable for gravity or pumped circulation
- Ideal for modular boiler applications
- Attractive white stove enamel paint finish
- Delivered to site fully assembled, tested and with casing fitted
- Simple installation and maintenance



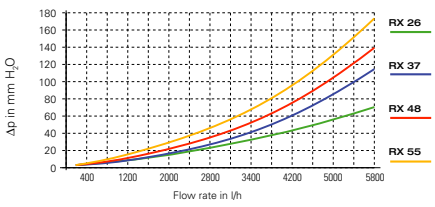
NOTE: RX26 DRAUGHT DIVERTER AS SHADED

SPECIFICATIONS

Model	Number of sections	Output	Input	Water content	Maximum water head	Min Flow @ 20°C t	Boiler resistance 20°C t	Flue Gas Temp	Flue Gas Volume	Gas Consumption Nat Gas	Electrical Consumption	Weight
		kW	kW	litres	bar	Litres/h	mm wg	°C	m^3/h	m^3/h	W	kg
RX 26	4	30.5	34.8	13	3	1296	6.0	118	104	3.68	16	126
RX 37	5	39.1	44.8	16	3	1675	11.0	110	157	4.73	16	150
RX 48	6	48.8	55.0	19	3	2088	15.0	130	159	5.82	16	176
RX 55	7	60.7	69.2	22	3	2592	37.0	141	177	7.32	16	202

DIMENSIONS

Model	A	B	C	D	E	F	G	H	J	Connection		
										Flow	Return	Gas
RX 26	400	850			720	150	660	475	60	$1^1/_2$"BSP	$1^1/_2$"BSP	$^1/_2$"BSP
RX 37	400	850	1435	670		180	660	475	60	$1^1/_2$"BSP	$1^1/_2$"BSP	$^3/_4$"BSP
RX 48	400	850	1435	770		180	660	475	60	$1^1/_2$"BSP	$1^1/_2$"BSP	$^3/_4$"BSP
RX 55	400	850	1675	870		200	660	475	60	$1^1/_2$"BSP	$1^1/_4$"BSP	$^3/_4$"BSP



CE

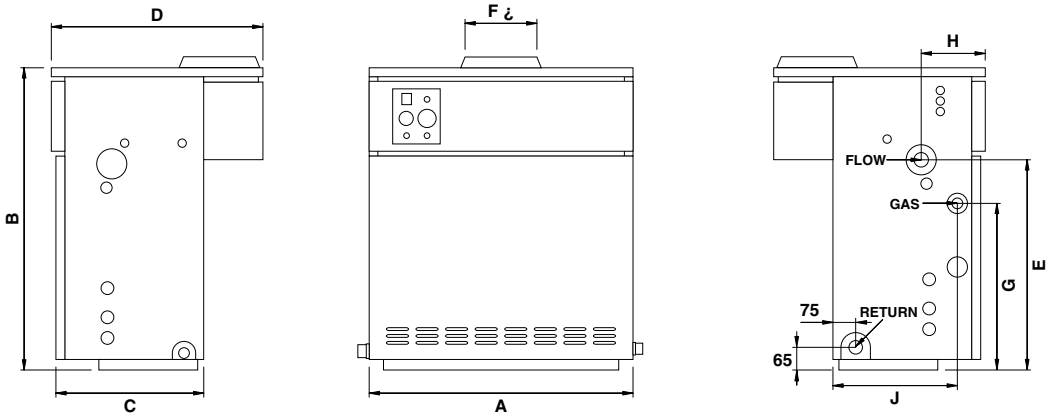
Atmospheric Gas Fired

NEW

SIME RMG

RMG range of atmospheric gas fired, cast iron sectional boilers are suitable for medium sized commercial applications. The compact design allows installation in plant rooms where space and access is limited.

- CE approved
- Clean and quiet operation
- Full safety and operating controls, including multi-functional control for reliable operation
- Automatic ignition
- Integral downdraught diverter
- Hi/low operation
- Suitable for natural gas as standard - LPG to special order
- Available in four output sizes, 70kW to 99kW
- Suitable for pumped circulation only
- Suitable for modular boiler applications
- Hard wearing red - orange stove enamel paint finish
- Delivered to site fully assembled, tested and with casing fitted
- Simple installation and maintenance

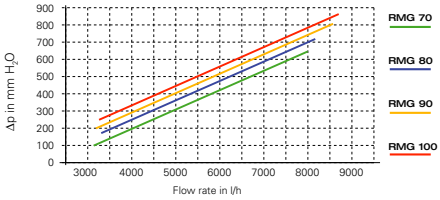


SPECIFICATIONS

Model	Number of sections	Output	Input	Water content	Maximum water head	Min Flow @ 20°C t	Boiler resistance 20°C t	Flue Gas Temp	Flue Gas Volume	Gas Consumption Nat Gas	Electrical Consumption	Weight
		kW	kW	litres	bar	Litres/h	mm wg	°C	m³/h	m³/h	W	kg
RMG 70	8	49.1 - 70.1	54.5 - 77.9	27	4	3004	100	158	147	8.2	16	238
RMG 80	9	56.0 - 78.7	62.2 - 87.4	30	4	3372	175	160	155	9.2	16	266
RMG 90	10	63.0 - 90.0	70.0 - 100.0	33	4	3857	280	160	189	10.6	16	294
RMG 100	11	69.9 - 98.6	77.7 - 109.5	36	4	4225	350	144	243	11.6	16	322

DIMENSIONS

Model	A	B	C	D	E	F	G	H	J	Connection		
										Flow	Return	Gas
RMG 70	840	1000	475	645	665	180	485	195	415	$1^1/_2$"BSP	$1^1/_2$"BSP	$^3/_4$"BSP
RMG 80	940	1000	475	645	665	180	485	195	415	$1^1/_2$"BSP	$1^1/_2$"BSP	$^3/_4$"BSP
RMG 90	1040	1000	475	645	665	200	485	195	415	$1^1/_2$"BSP	$1^1/_2$"BSP	$^3/_4$"BSP
RMG 100	1140	1000	475	645	665	225	485	195	415	$1^1/_2$"BSP	$1^1/_2$"BSP	$^3/_4$"BSP



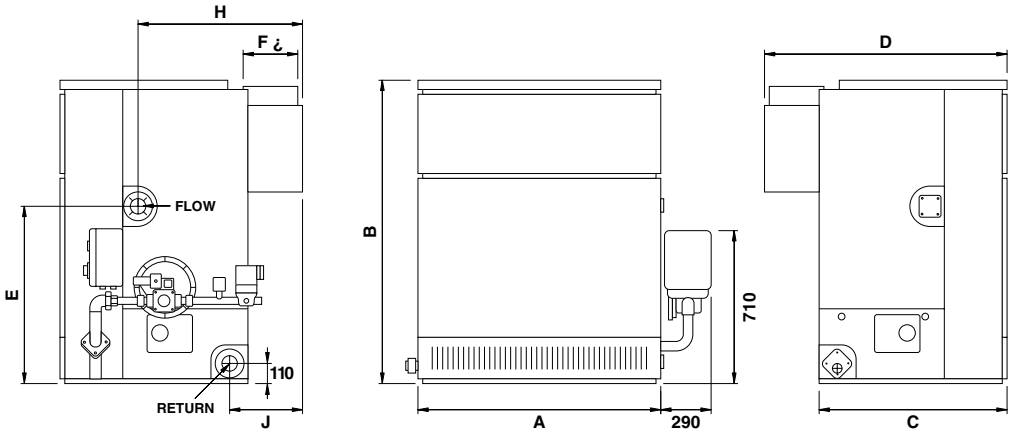
NEW

CE

Atmospheric Gas Fired

The RS range of atmospheric gas fired boilers. Suitable for both commercial and industrial applications, they are available in nine output models from 107kW to 279kW.

- CE approved
- Clean and quiet operation
- Full safety and operating controls
- Full electronic ignition
- Suitable for natural gas as standard - LPG to special order
- Available in nine output sizes, 107kW to 279kW
- Suitable for pumped circulation only
- Suitable for modular boiler applications
- Hard wearing red - orange stove enamel paint finish
- Delivered to site with fully assembled and tested waterways. Burner assembly, control assembly, casing and down draught divertor fitted on site
- Can be supplied with waterways broken down for site assembly
- Simple installation and maintenance

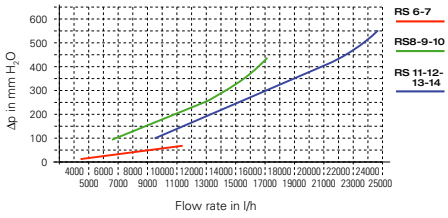


SPECIFICATIONS

Model	Number of sections	Output	Input	Water content	Maximum water head	Min Flow @ 20°C t	Boiler resistance 20°C t	Flue Gas Temp	Flue Gas Volume	Gas Consumption Nat Gas	Electrical Consumption	Weight
		kW	kW	litres	bar	Litres/h	mm wg	°C	m³/h	m³/h	W	kg
RS 6	6	107.7	121.7	58.0	5	4630	12	136	312	12.88	50	472
RS 7	7	129.0	145.9	67.5	5	5546	18	154	328	15.44	50	542
RS 8	8	150.6	170.0	77.0	5	6474	87	170	335	17.99	50	612
RS 9	9	172.2	194.2	86.5	5	7403	110	173	355	20.55	80	682
RS 10	10	193.7	218.2	96.0	5	8327	125	153	482	23.10	80	757
RS 11	11	215.2	242.1	105.5	5	9251	100	160	492	25.63	80	829
RS 12	12	236.5	266.0	115.0	5	9909	112	143	620	28.16	80	904
RS 13	13	257.8	290.0	124.5	5	11083	137	148	640	30.70	80	974
RS 14	14	279.1	313.6	134.0	5	11999	162	154	637	33.20	80	1044

DIMENSIONS

Model	A	B	C	D	E	F	G	H	J	Connection		
										Flow	Return	Gas
RS 6	700	1365	880	1110	825	250	380	730	315	2"BSP	2"BSP	1"BSP
RS 7	810	1365	880	1110	825	250	380	730	315	2"BSP	2"BSP	1"BSP
RS 8	920	1365	880	1110	825	250	380	730	315	2"BSP	2"BSP	1"BSP
RS 9	1030	1365	880	1110	825	250	380	730	315	2"BSP	2"BSP	1"BSP
RS 10	1145	1365	880	1140	825	300	380	760	345	2"BSP	2"BSP	1"BSP
RS 11	1255	1365	880	1140	825	300	380	760	345	2"BSP	2"BSP	1½"BSP
RS 12	1370	1365	880	1190	825	350	380	810	395	2"BSP	2"BSP	1½"BSP
RS 13	1480	1365	880	1190	825	350	380	810	395	2"BSP	2"BSP	1½"BSP
RS 14	1580	1365	880	1190	825	350	380	810	395	2"BSP	2"BSP	1½"BSP



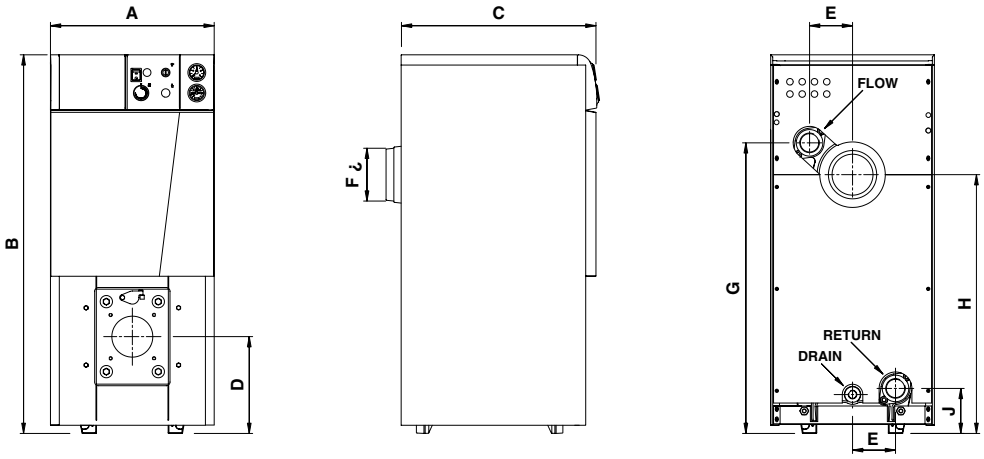
CE

Oil Fired

ESTELLE

The ESTELLE range of oil fired boilers has been developed primarily for domestic and small commercial applications. The advanced design technology and proven quality of manufacture ensures optimum efficiency and reliability.

- Meets current European legislation
- Full safety and operating controls
- Riello oil burner, or alternatively without burner
- Suitable for 35 second oil as standard - 28 second oil to special order
- Available in four output sizes, 19kW to 48kW
- Suitable for pumped circulation only
- Suitable for modular boiler applications
- Hard wearing stove enamel paint finish
- Delivered to site with fully assembled and tested waterways. Burner assembly, control assembly, casing and smoke hood fitted on site
- Simple installation and maintenance



SPECIFICATIONS

Model	Number of sections	Output	Input	Water content	Maximum water head	Min Flow @ 10°C t	Boiler resistance 10°C t	Flue Gas Temp	Flue Gas Volume	Fuel Consumption 35 sec oil	Electrical Consumption	Weight
Estelle		kW	kW	litres	bar	Litres/h	mm wg	°C	m^3/h	l/h	W	kg
3	3	19	21.1	12.8	4	1634	51	160	24.0	2.09	160	126
4	4	29	32.5	16.8	4	2493	102	180	38.7	3.22	160	150
5	5	40	44.3	20.8	4	3493	153	185	52.8	4.40	160	174
6	6	48	53.0	24.8	4	4127	205	170	63.2	5.26	160	198

NOTE - Technical data based on Nuway burners.

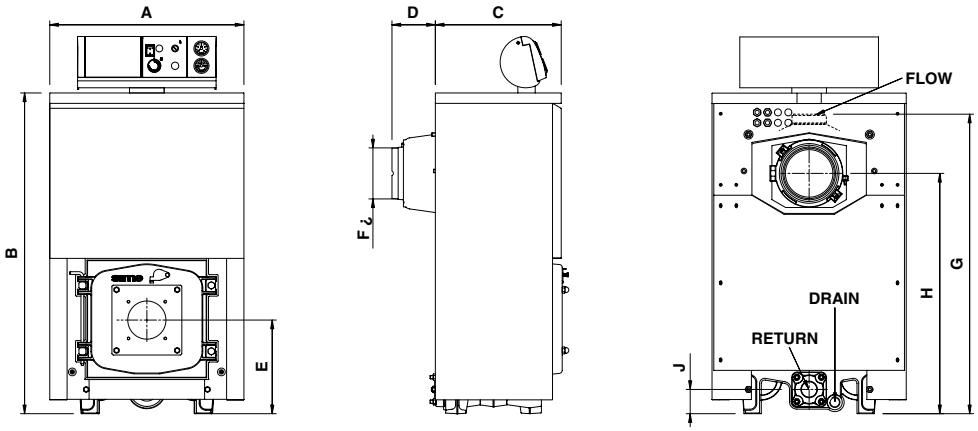
DIMENSIONS

Model Estelle	A	B	C	D	E	F	G	H	J	Connection		
										Flow	Return	Drain
3	460	850	415	280	505	130	625	55	95	$1^1/4$"BSP	$1^1/4$"BSP	$^1/2$"BSP
4	460	850	515	280	505	130	625	55	95	$1^1/4$"BSP	$1^1/4$"BSP	$^1/2$"BSP
5	460	850	615	280	505	130	625	55	95	$1^1/4$"BSP	$1^1/4$"BSP	$^1/2$"BSP
6	460	850	715	280	505	130	625	55	95	$1^1/4$"BSP	$1^1/4$"BSP	$^1/2$"BSP

CE

Already very successful, the 1R and 2R range of boilers has been enhanced by the addition of three further units which now extend the maximum output to 267kW. Combined with the new look casing and upgraded control panel, this unit is better than ever.

- Meets current European legislation
- Full safety and operating controls
- Suitable for pumped circulation only
- Simple installation and maintenance
- Suitable for modular boiler applications
- Hard wearing red - orange stove enamel paint finish
- Can be supplied with waterways broken down for site assembly
- Choice of Nuway or Riello oil burner, or alternatively without burner
- Suitable for 35 second oil as standard - 28 second oil to special order
- Available in fourteen output sizes, 61kW to 267kW
- Delivered to site with fully assembled and tested waterways. Burner assembly, control assembly, casing and smoke hood fitted on site



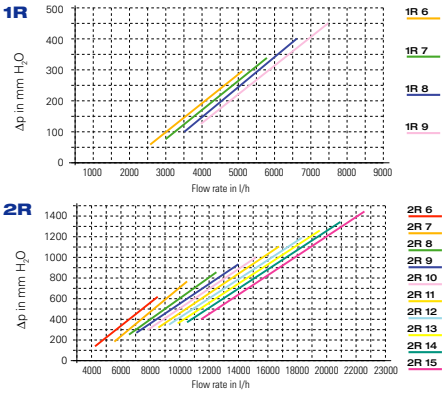
SPECIFICATIONS

Model	Number of sections	Output	Input	Water content	Maximum water head	Min Flow @ 20°C t	Boiler resistance 20°C t	Flue Gas Temp	Flue Gas Volume	Fuel Consumption 35 sec oil	Electrical Consumption	Weight
		kW	kW	litres	bar	Litres/h	mm wg	°C	m^3/h	l/h	W	kg
1R6	6	60.8	68.5	37.5	4	2592	60	175	113	6.47	75	287
1R7	7	69.3	77.8	42.0	4	2952	75	177	128	7.95	75	317
1R8	8	78.7	88.0	46.5	4	3348	100	170	146	8.67	75	353
1R9	9	87.1	97.5	51.0	4	3708	130	153	163	9.73	250	386
2R6	6	100.6	113.2	92.0	5	4284	120	173	181	11.17	250	487
2R7	7	123.8	139.2	107.0	5	5292	160	174	217	13.90	250	541
2R8	8	147.1	164.9	122.0	5	6300	250	163	250	15.91	250	608
2R9	9	165.1	184.7	136.0	5	7056	270	177	285	17.61	250	684
2R10	10	179.7	200.5	151.0	5	7668	300	189	320	20.79	250	758
2R11	11	197.7	220.1	165.0	5	8460	320	177	353	21.66	250	815
2R12	12	213.4	237.0	180.0	5	9144	350	162	379	24.28	250	871
2R13	13	230.2	255.8	194.0	5	9864	360	179	T.B.A.	T.B.A.	250	929
2R14	14	248.8	276.7	209.0	5	10656	370	180	T.B.A.	T.B.A.	250	987
2R15	15	266.9	296.5	223.0	5	11556	410	183	T.B.A.	T.B.A.	250	1045

NOTE - Technical data based on Nuway burners.

DIMENSIONS

Model	A	B	C	D	E	F	G	H	J	Connection		
										Flow	Return	Drain
1R6	560	925	595	125	270	150	865	695	70	$1^1/_2$"BSP	$1^1/_2$"BSP	$^3/_4$"BSP
1R7	560	925	670	125	270	150	865	695	70	$1^1/_2$"BSP	$1^1/_2$"BSP	$^3/_4$"BSP
1R8	560	925	750	125	270	150	865	695	70	$1^1/_2$"BSP	$1^1/_2$"BSP	$^3/_4$"BSP
1R9	560	925	825	125	270	150	865	695	70	$1^1/_2$"BSP	$1^1/_2$"BSP	$^3/_4$"BSP
2R6	700	1130	735	135	330	200	1075	875	85	2"BSP	2"BSP	$^3/_4$"BSP
2R7	700	1130	835	135	330	200	1075	875	85	2"BSP	2"BSP	$^3/_4$"BSP
2R8	700	1130	935	135	330	200	1075	875	85	2"BSP	2"BSP	$^3/_4$"BSP
2R9	700	1130	1035	135	330	200	1075	875	85	2"BSP	2"BSP	$^3/_4$"BSP
2R10	700	1130	1135	135	330	200	1075	875	85	2"BSP	2"BSP	$^3/_4$"BSP
2R11	700	1130	1235	135	330	200	1075	875	85	2"BSP	2"BSP	$^3/_4$"BSP
2R12	700	1130	1335	135	330	200	1075	875	85	2"BSP	2"BSP	$^3/_4$"BSP
2R13	700	1130	1435	135	330	200	1075	875	85	2"BSP	2"BSP	$^3/_4$"BSP
2R14	700	1130	1535	135	330	200	1075	875	85	2"BSP	2"BSP	$^3/_4$"BSP
2R15	700	1130	1635	135	330	200	1075	875	85	2"BSP	2"BSP	$^3/_4$"BSP



Since 1R-2R

CE

sime Boilers

Construction and Applications

Construction

The Sime series is designed and manufactured to the highest possible standard, with each model meeting current European legislation. The atmospheric gas fired ranges, RX, RMG and RS are CE approved.

Full safety and operating controls are supplied with each boiler; also supplied is an instrument panel.

Each cast iron sectional waterway is fully assembled and pressure tested prior to delivery. The RX and RMG ranges are delivered to site with the casing and burner assemblies fitted.

Application

Sime boilers are suitable for heating and indirect hot water supply, for use on LTHW.

Electrical Requirements

All boilers and burners are suitable for a single phase 240 V 50 Hz AC electrical supply, connected via a double pole isolator and the appropriate fuse.

Customer Service

A comprehensive range of customer aftercare services are available, which include;

Commissioning - a full on-site commissioning service, using skilled Powrmatic technicians can be provided.

Site Assembly Services - Powrmatic trained engineers can be provided to assemble Sime boilers on-site if required.

Rapid Parts Availability - spare parts for the Sime boiler range are available quickly, through a national network of appointed local stockists.

Local Service Engineers - Sime boilers can be serviced locally via factory trained and approved technicians, strategically located throughout the UK.

Guidance Notes

Adequate Flue Conditions

The flue must be capable of evacuating the combustion products from the appliance(s) under full load conditions.

Always ensure the flue installation is suitable and provides the negative draught specified.

Fresh Air Inlet For Combustion and Ventilation

The boiler will not operate efficiently and reliably unless there is adequate combustion and ventilation air into the boiler room. Please see BS 5440 Pt 2 and CP 332: 3 as applicable.

The following information is given as a guide.

Position of Opening	Air Direct From Outside
Low level	540 cm^2 (82 in^2) plus 4.5 cm^2 (0.7 in^2) per kilowatt in excess of 60 kW total rated input.
High level	270 cm^2 (41 in^2) plus 2.25 cm^2 (0.35 in^2) per kilowatt in excess of 60 kW total rated input.

For Forced Ventilation:

0.03 m^3/s (76 ft^3/min) per 29 kW (100,000 Btu/h) output diverted to low level adjacent to the combustion equipment with a natural draught ventilation outlet at high level.

Base Requirement

It is recommended that all boilers are positioned on a 50 mm non-combustible base. Please check Local Authority requirements.

System Requirement

It is important that maximum working temperatures and pressures are never exceeded. Likewise, the boilers should not operate at working pressures below 2 metres (78 inches) head.

Maximum temperature drop between flow and return under normal conditions is 20°C and minimum return water temperature should not be lower than 50°C.

Dependant on the design of the hot water system to which boilers are fitted, consideration should be given to the installation of a pumped shunt loop and a main pump over-run which will obviate the possibility of thermal lockout.

A clean, dry, well illuminated boiler room with good access will help to ensure the equipment installed operates to the maximum efficiency. Always take into account the noise level of the equipment, especially when installing oil fired equipment.

Commissioning and Servicing

However well designed and manufactured the appliance is, it is only capable of operating to its optimum efficiency if it is installed, commissioned and maintained correctly.

Flue and Chimney Systems

Powrmatic offers five complete System Flue ranges of components and accessories from which it is possible to build a flue or chimney to suit not only Sime but all other ranges of heat generators in almost any installation.

Full details are available from Powrmatic.

sime

powrmatic

aquamatic division

Winterhay Lane · Ilminster · Somerset TA19 9PQ
Tel: 01460 53535 · Fax: 01460 256429
Web: www.powrmatic.co.uk
E-mail: sales@powrmatic.co.uk

BSI Registered Firm
FM414
Industrial & Commercial Air Heaters; Air Moving Equipment; Flue & Chimneys; Natural, Smoke & Heat Ventilators; Powered Supply & Extract Fans & Systems.

MAGMA ENERGY SERVICES LTD
Unit 5 Image Business Park
East Cannock Road
Hednesford
Cannock
WS12 1LT
Tel: 0845 8682119 Fax: 01543 876582
www.magma-group.co.uk
Email office@magma-group.co.uk