



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

RX

30kW - 60kW

RMG

70kW - 99kW

RS

107kW - 279kW



Forced Draught Gas Fired

1R-2R

64kW - 249kW

Oil Fired

Estelle

19kW - 48kW

1R-2R

61kW - 267kW

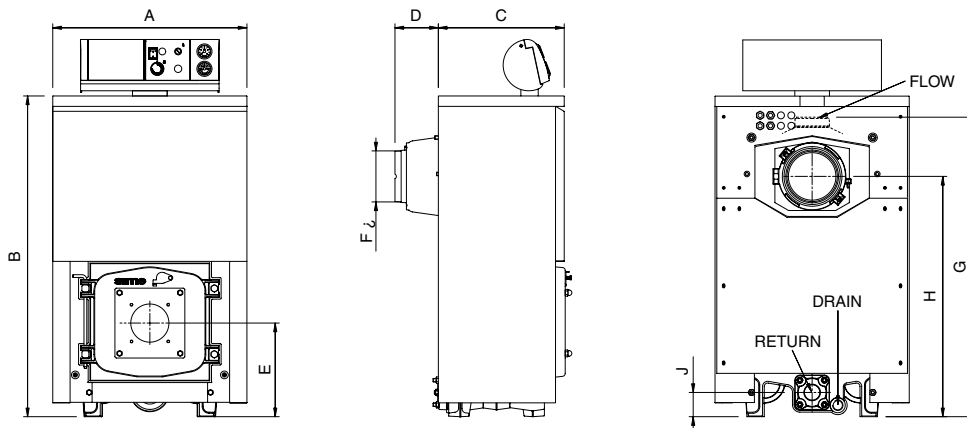


Available direct from Powrmatic or through our nationwide network of approved distributors and stockists, Sime boilers are backed by the quality technical sales and service support one would expect from the UK's leading H & V equipment manufacturers.

Forced Draught Gas Fired

Already very successful, the 1R and 2R range of boilers has now been approved suitable for gas firing. Available in fourteen output sizes, with the new look casing and upgraded control panel, this unit is better than ever.

- Meets current European legislation, CE Approved
- 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
- Fitted with Riello gas fired burner
- Suitable for natural gas as standard or LPG gas to special order
- Available in thirteen output sizes, 64kW to 249kW
- Delivered to site with fully assembled and tested waterways. Burner assembly, control assembly, casing and smoke hood fitted on site



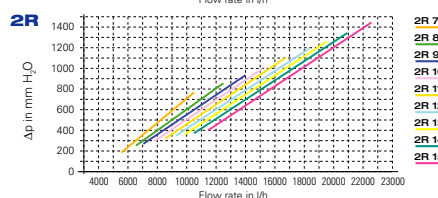
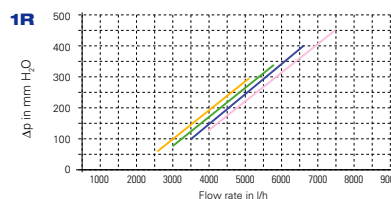
SPECIFICATIONS

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	Gas Consumption Nat Gas	Electrical Consumption	Weight
		kW	kW	litres	bar	Litres/h	mm wg	°C	m ³ /h	m ³ /h	W	kg
1R6	6	64.8	71.5	37.5	4	2592	60	188	113	7.56	75	287
1R7	7	74.0	81.6	42.0	4	2952	75	189	128	8.63	75	317
1R8	8	84.0	92.5	46.5	4	3348	100	181	146	9.78	75	353
1R9	9	93.3	102.6	51.0	4	3708	130	171	163	10.85	75	386
2R7	7	100.6	113.2	107.0	5	5292	160	184	217	11.97	250	541
2R8	8	123.8	139.2	122.0	5	6300	250	180	250	14.72	250	608
2R9	9	147.1	164.9	136.0	5	7056	270	176	285	17.44	250	684
2R10	10	165.1	184.7	151.0	5	7668	300	191	320	19.53	250	758
2R11	11	179.7	200.5	165.0	5	8460	320	187	353	21.20	250	815
2R12	12	197.7	220.1	180.0	5	9144	350	177	379	23.27	250	871
2R13	13	213.4	237.0	194.0	5	9864	360	169	T.B.A.	25.06	250	929
2R14	14	230.2	255.8	209.0	5	10656	370	168	T.B.A.	27.05	250	987
2R15	15	248.8	276.7	223.0	5	11556	410	170	T.B.A.	29.26	250	1045

NOTE - Technical data based on Riello burners.

DIMENSIONS

Model	A	B	C	D	E	F	G	H	J	Connection		
										Flow	Return	Drain
1R5	560	925	520	125	270	150	865	695	70	1 1/2" BSP	1 1/2" BSP	3/4" BSP
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
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



Riello 1R-2R



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 m³/s (76 ft³/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 overrun 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.

powrmatic



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