



**INTELLIGENT,
RELIABLE,
AFFORDABLE
BOILERS**



Murelle One HE



Murelle Advanced HE



Murelle Elite HE



Mini BF Gas Water Heater

For over **40 years**, we've been building some of the **most intelligent and reliable** domestic boilers on the market.

ABOUT SIME

Sime has been successfully delivering intelligent and environmentally-efficient heating and hot water solutions for over forty years. Our heating and hot water products are in over three million homes worldwide. With a proven reputation for quality, reliability and performance, our domestic and commercial boilers incorporate the stylish design and innovative engineering synonymous with our Italian heritage.

Manufactured using the most advanced production systems and the highest quality brass and stainless steel components, our boilers are compact, lightweight, easy to install and come with 2, 5, 7 and 10 year warranties. Environmentally conscious, we strive to reduce, reuse and recycle wherever possible and aim to continually improve our environmental performance with not only our production processes, but also with our product design and packaging.

Murelle Elite HE

30/35 kW

The Elite has been the stalwart boiler of the Murelle product suite for the last decade. Recently upgraded, the Murelle Elite now has enhanced efficiency and performance. Both Elite combination and System T models have the capability to control solar thermal as well as both high and low heating circuits simultaneously.

- **Fast, controlled hot water delivery**
- **Multi-zone control**
- **Ultra-quiet operation**
- **High modulation**
- **NOx Class 6**
- **System T, two integral heating circuits (i.e. 2 flow, 2 return)**
- **Range includes combination and system heating and hot water solutions**



Murelle One HE

25 kW/30 kW

The Murelle One boiler is the most lightweight and compact boiler in the Sime range. Its compact size makes it the ideal boiler for smaller houses and apartments, as they are slim enough to be housed within a cupboard but are so stylish that you probably won't want to!

- Compact and lightweight
- Fast, controlled hot water delivery
- Service interval timer as standard
- LCD temperature and diagnostic display
- Active combustion control
- Natural gas/LPG adaptive (no conversion kit required)
- Efficient heating control connectivity (Open Therm connection)
- NOx Class 6
- Weather compensation sensor connection



Murelle Advanced HE

30 kW/40 kW

One of the most intelligent and versatile high-efficiency combination boilers available, the Murelle Advanced is available in both 30 kW and 40 kW outputs.

- Active combustion control
- Natural gas/LPG adaptive (no conversion kit required)
- Compact dimensions
- Lightweight
- Fast, controlled hot water delivery
- Service interval timer as standard
- NOx Class 6
- Weather compensation sensor connection
- Efficient heating control connectivity (Open Therm Connection)



Mini BF Gas Water Heater

This compact instantaneous water heater has an A energy efficiency rating and meets ErP Low NOx Class 6 requirements. Delivering on-demand hot water for premises that have an alternative heat source, the Mini BF water heater can be installed inside or in a partially protected outdoor area.

- A energy rating
- Compact and lightweight
- Horizontal flue option
- LCD temperature and diagnostic display
- Dimensions: 345 mm W x 570 mm H x 150 mm D
- NOx Class 6



Murelle Revolution HE

This Revolutionary product is the first completely integrated boiler and heat pump in a single cased product. Featuring an ErP A++ 30 kW Murelle boiler and sealed 4 kW output heat pump, the Murelle Revolution 30 is installed inside and hung on the wall like a conventional boiler. This product can be installed by any registered Gas Safe engineer with no need for F-gas certification.

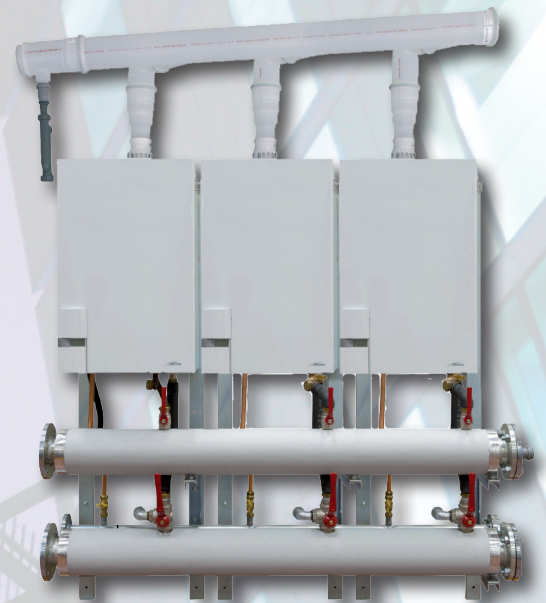
- Integrated heat pump and gas combustion in a single unit
- Optimum size and no external unit
- Dimensions: 600 mm W x 900 mm H x 390 mm D
- A++ energy efficiency
- Average seasonal heating performance of 134%
- Constant COP of heat pump
- Series operation of heat pump and boiler
- Installed inside and hung on the wall like a conventional boiler
- Installation the same as a gas boiler (no F gas certification required)
- Air source heat pump operates down to -7°C
- NOx Class 6



LIGHT COMMERCIAL

Efficient boilers for efficient buildings

Some light commercial products offer high performance heating and hot water solutions for any requirement. Whatever the building type, we have a product to suit its needs. Have access issues? No problem. Our commercial products are also available in kit form, enabling on-site assembly, for easy installation in areas with limited accessibility. All Sime commercial boilers are featured on the Carbon Trust's Energy Technology List. Part of the Carbon Trust's energy-efficient commercial buildings initiative, all products on this list are tax deductible in accordance with the Enhanced Capital Allowance scheme.



Murelle Equipe

Single 35/50/70/110 kW

Cascade Combination from 70 to 880 kW

Sime uses the finest quality brass and stainless steel components for increased performance and reliability

All Sime commercial products are listed on the Carbon Trust's Energy Technology List

All Murelle Equipe modular systems are equipped with 35, 50, 70 or 110 kW condenser coil exchangers, characterised by high yield. The combustion of methane generates water vapour, which in traditional boilers is conveyed to the outside through the release of heat from the chimney. The technology used in Murelle Equipe modular systems allows for the recovery of this heat with the main exchanger constructed of stainless steel, suitable for resisting the corrosive action of the condensate.

- **Modular systems from 70 kW to 880 kW**
- **No expensive external modular controls required**
- **Modulation of between 1:5 or 1:40 depending on cascade arrangement**
- **Sermeta stainless steel heat exchanger (single for the 35, 50 and 70 kW models and overlapping double for 110 kW models)**
- **Pollutant-reducing stainless steel radial pre-mix burner produces a 'micro flame' at low temperature**
- **Designed and built-in conformance to EEC**
- **Directives 92/42, 89/336, 73/23 and 90/396**
- **NOx Class 6**
- **Available as a box version suitable for external siting**
- **Each seal is subjected to stringent laboratory testing to guarantee superior performance**

TECHNICAL DETAILS

PERFORMANCE

	Power use	Mini BF	ONE		PRO System		Advanced		Elite		
			25 Combi	30 Combi	20R System	30R System	30 Combi	40 Combi	35T System T	30 Combi	35 Combi
Gas											
Sedbuk 2005 seasonal efficiency	%		90.6	90.6	90.5	90.5	90.4	90.5	90.4	90.3	90.3
Sedbuk 2009 seasonal efficiency	%		89.1	89.1	89.2	89.1	89	89.2	88.6	88.5	88.5
NOx Class			6	6	6	6	6	6	6	6	6
CH output - max	kW		21.2	25.7	21.4	32.2	25.7	37.5	37.2	31.6	37.2
CH output - min	kW		4.2	5.1	4.3	6.5	4.7	6.9	7.9	5.9	7.9
DHW output	kW	24	24	30			28	40		28.9	34.1
Gas inlet pressure	mbar	19	19	19	19	19	19	19	19	19	19
Maximum gas rate	m ³ /hr	2.17	2.53	3.5	2.52	3.7	2.92	4.23	3.68	3.12	3.68
Mechanical / Hydraulic											
DHW flow rate @ 35 °	l/min	9	9.8	11.9			11.5	16.4		12.1	14
DHW flow rate minimum operation	l/min	2.5	2	2			2	2		2	2
DHW minimum operation pressure	bar	0.2	0.5	0.5			0.5	0.5		0.5	0.5
DHW maximum pressure	bar	10	7	7			6	6		6	6
Minimum CH operation pressure	bar		0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Maximum CH operation pressure	bar		2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Safety discharge pressure	bar		3	3	3	3	3	3	3	3	3
Compartment ventilation required			No	No	No	No	No	No	No	No	No
Integral expansion vessel size	litres		9	9	9	9	10	10	10	10	10
CH inhibitor required			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Condensate connection size	mm		21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5
Electrical											
Electrical supply	Volt/Hz	230/50	230/50	230/50	230/50	230/50	230/50	230/50	230/50	230/50	230/50
Permenant supply required		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Power cable supplied	1m 3core	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Power consumption	Watts	33	67	73	65	78	85	100	95	90	95
External fuse rating	amp	3	3	3	3	3	3	3	3	3	3
Internal fuse rating	amp		1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Boiler IP Rating		X4	X5D	X5D	X5D	X5D	X5D	X5D	X4D	X4D	X4D
Pump overrun	DHW/CH	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Inbuilt frost protection		No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Weights											
Installer lift weight	Kg	11.8	29.5	29.5	27.5	29	28.5	32.5	43	41	43
Gross packed weight	Kg	13.8	33.5	33.5	31.5	33	32.5	36.5	47	45	47



Some boilers are lightweight and easy to install - from box to wall in 10 minutes

BOILER DIMENSIONS

	Width (a)	Height (b)	Depth (c)
Mini BF	345 mm	570 mm	165 mm
One			
Combi	400 mm	700 mm	250 mm
Pro			
Combi / System	400 mm	700 mm	250 mm
Advanced			
Combi 30	400 mm	700 mm	250 mm
Combi 40	400 mm	700 mm	300 mm
Elite			
Combi / System T	450 mm	700 mm	350 mm

SERVICE CLEARANCES

Side	Upper	Lower	Front
15 mm	200 mm	200 mm	5 mm*

*Maintenance clearance 500 mm

AS STANDARD

	Mini BF	One	Pro	Advanced		Elite	
	Water heater	Combi	System	Combi 30	Combi 40	Combi	System T
Push button customer control		✓	✓	✓	✓	✓	✓
Customer control knobs		✓	✓				
Status/diagnostic LCD display	✓	✓	✓	✓	✓	✓	✓
User adjustable DHW 20 ° - 60 °	✓	✓		✓	✓	✓	
User adjustable CH 20 ° - 80 °		✓	✓	✓	✓	✓	✓
TA connection 24 v		✓		✓	✓		
TA connection 240 v			✓				
Open therm connection		✓	✓	✓	✓	✓	✓
External sensor connection		✓	✓	✓	✓	✓	✓
Service timer built in		✓	✓	✓	✓		

FLUE LENGTHS

	Mini BF**	One		Pro		Advanced		Elite	
		25	30	20	30	30	40	30	35
H 100/60 mm	3 m	6 m	5 m	6 m	5 m	5 m	4 m	5 m	4 m
V 100/60 mm	N/A	8 m	7 m	8 m	7 m	7 m	6 m	7 m	6 m
H 125/80 mm	N/A	12 m	10 m	12 m	10 m	10 m	10 m	10 m	8 m
V 125/80 mm	N/A	15 m	13 m	15 m	13 m	13 m	13 m	13 m	11 m
H/V 80 mm Twin	N/A	50 m*	50 m*	50 m*	50 m*	50 m*	50 m*	50 m*	50 m*

*Refer to manual, length is combined and restricted by pressure loss

**May be used with class B23 flue arrangement

FLUE PART NUMBERS

100/60

8098605	100 mm telescopic flue kit with plume management
8096250	100 mm horizontal flue Kit
8096151	100 mm extension 500mm long
8096150	100 mm extension 1000mm long
8095850	100 mm 90 ° bend
8095950	100 mm 45 ° bend
8082102	100 mm flue support bracket
8091212	Vertical flue kit with 100 mm adaptor

100/60 Mini BF water heater

8099301	Horizontal flue kit
8112703	Extension 1 m long
8112702	Extension 500 mm long
8112756	90 ° bend

125/80

8096253	125 mm horizontal flue kit
8096170	125 mm extension 500mm long
8096171	125 mm extension 1000mm long
8095870	125 mm 90 ° bend
8095970	125 mm 45 ° bend
8082103	125 mm flue support bracket
8091212A	Vertical flue kit with 125 mm adaptor

SIME: A GLOBAL BRAND

ITALY • UNITED KINGDOM • NORTH AMERICA • CHINA • SPAIN • GREECE



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