



sime

# WALL HUNG BOILERS

Brava Slim Conventional | Condensing | Combi

For over 40 years, Sime has been a global leader in the manufacture of state-of-the-art boilers. Developed at our modern production centre in Verona Italy, our innovative range is now sold in over 60 countries around the world.

At Sime, we built our reputation by manufacturing high quality cast iron boilers and today we continue to drive the market forward with our space saving wall hung boilers. We've been in Australia for over 30 years and we understand the Australian climate and conditions, tailoring our products to suit.

We pride ourselves on an attitude of innovation and we guarantee our customers comfort through the most advanced heating and hot water technology available. This means you always have total control of your climate.

## WARRANTY

For over 40 years Sime has been building some of the most intelligent domestic boilers. The Brava Slim range has a guaranteed warranty of 3 years on parts and labour. 10 years on the heat exchanger.



# THE BRAVA SLIM RANGE

Our Brava Slim range is part of a new generation of wall hung boilers designed to be compact without compromising on functionality. They represent the ideal answer to modern environments where space must be used in the best possible way.

Despite their narrow dimensions, they feature technical advances usually only found in more advanced commercial products. So while

small in size, they're big on performance. Effortlessly simple to use, they're built with the same level of quality and reliability you've come to expect in every Sime product.

Our "i" models are designed for internal installation, while our "e" models are specifically for outdoor installation and come with protection against the elements.

Sime has a range of Conventional, Condensing and Combi boilers which all deliver radiant heat through the home whether for underfloor heating, radiator panels or towel rails. Our combi boiler combines heating and hot water in the one appliance.

	H	L	W
<b>CONDENSING</b>			
HE 20 R i	700	400	250
HE 20 R e	917	450	256
HE 40 R i	700	400	300
HE 40 R e	917	450	305
<b>COMBI (HEATING &amp; HOT WATER)</b>			
HE 40 i	700	400	300
HE 40 e	917	450	305
<b>CONVENTIONAL</b>			
30 BF R i	700	400	250
30 BF R e	917	450	255

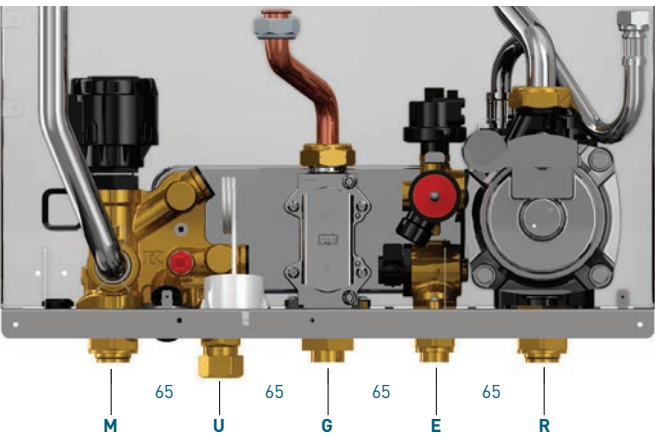


## TECHNOLOGICAL ADVANTAGES

- > Extremely compact dimensions.
- > Brass hydraulic unit with DIN Standard connections.
- > Hot Water Management with dual probe on Combi model.
- > Combustion control with electronic feedback loop and electronic gas valve.
- > 3 piece casing for easy installation and service.
- > Active combustion control.
- > Automatic gas control (Condensing Boilers).
- > Outdoor case built for Australian weather conditions.

# BRASS HYDRAULIC UNIT

The Brava Slim range incorporates brass hydraulic units in every model. Brass guarantees quality and durability. Our new hydraulic unit introduces a new design to DIN Standard that offers maximum installation flexibility.



HYDRAULIC CONNECTIONS		
M	System flow	3/4"
U*	H.W outlet	1/2"
G	Gas Supply	3/4"
E*	H.W Inlet	1/2"
R	Return Flow	3/4"

\*Combi only

## STAINLESS STEEL HEAT EXCHANGER

The heat exchanger is the single most important part of your boiler and it's one area where quality should never be compromised. All Sime HE condensing boilers come with an industry leading Giannoni stainless steel heat exchanger as standard, which ensures your Sime boiler will continue to function efficiently and reliably for many years.



HE Condensing Boiler pictured.

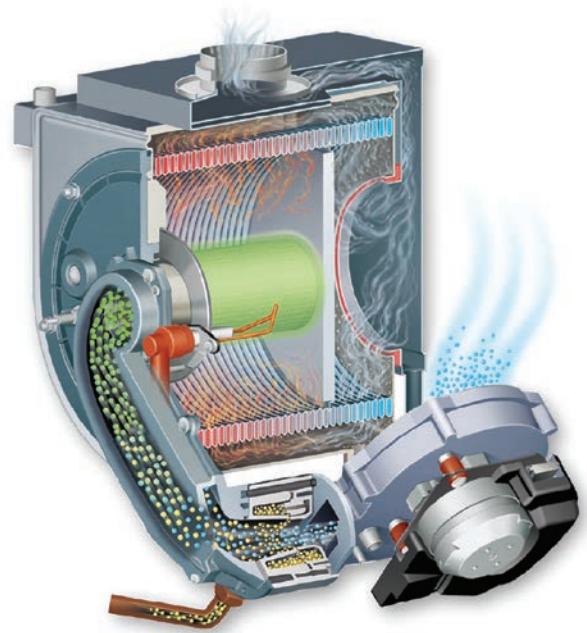
# HIGH EFFICIENCY CONDENSING BOILERS

The combustion of gas generates water vapour which in traditional boilers is released outside as waste heat from the flue. The innovative technology used in Brava Slim condensing systems allows for the recovery of this heat, creating even higher efficiency.

The stainless steel main exchanger is designed to resist the corrosive action of the condensate. Its cylindrical shape achieves the best possible heat exchange and collection of condensate.

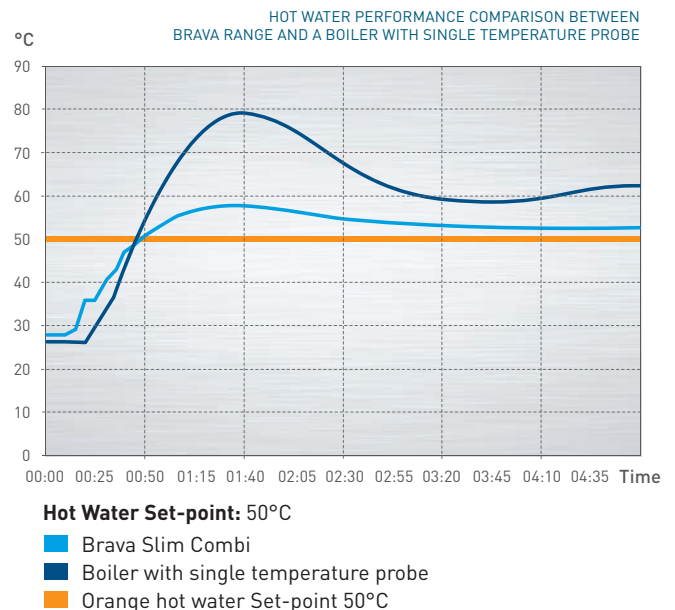
The radial pre-mix burner is made of stainless steel and positioned at the centre of the combustion chamber. It produces a "microflame" at low temperature which reduces the production of pollutants (CO and NOx) significantly.

What's more, the air and the gas are pre-mixed in an ideally balanced ratio for maximum efficiency. This allows for superior performance compared to conventional boilers.



# CHOOSE COMBI FOR HOT WATER PERFORMANCE

Brava Slim Combi combines a condensing boiler with added hot water management through the introduction of a dedicated temperature probe. This ensures precise and stable temperature of hot water with no overshoots. The Brava Slim gives 22.9 litres per minute at a 25°C temperature rise.



# CONDENSING BOILERS FUTURE ACTIVE COMBUSTION CONTROL

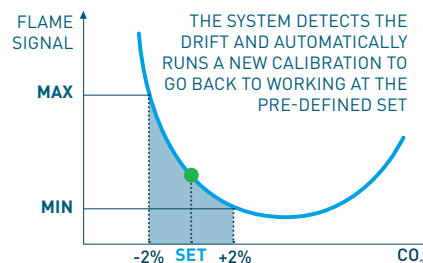
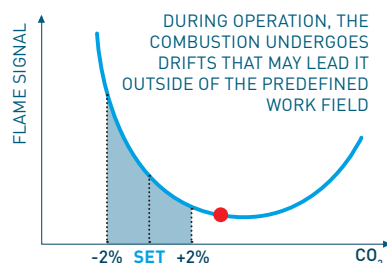
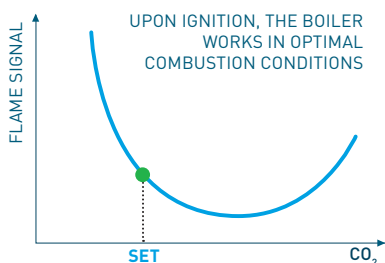
Manufacturing high quality boilers requires an intense focus on efficiency and environmentally friendly combustion. By utilising an active control of the combustion process, we create systems that continue to deliver efficiency, safety and limited emissions over extended periods of many years.

To achieve this level of long-term performance, Sime invests heavily in the development of our innovative ignition electrodes and control electronics. Our unique electrode, immersed in the flame, works as a control sensor for combustion, providing instant feedback to the electronics by continuously

optimising combustion. This results in better performance and efficiency over the life of the unit.

## SYSTEM BENEFITS

- > Auto commissioning, high reliability and reduced maintenance. No need for manual set up and testing.
- > No mechanical setting: automatic electronic calibration of the gas valve through simple parameter settings.
- > Maximum safety in case of bad exhaust gas evacuation or unburnt gas recirculation (not detectable by traditional systems).
- > Improved control of combustion drifts caused by processing tolerances, oxidation and isolation losses.
- > Save on gas (30%) compared to an uncalibrated boiler. Checks calibration every 20 minutes.
- > Increase reliability by eliminating the air pressure switch from traditional combustion boilers.
- > Greater ease in LPG/natural gas change through simple parameter in condensing boilers and safe operating in case of using the wrong gas.



# RANGE

CONVENTIONAL	CONDENSING
BRAVA SLIM BF R i / e	BRAVA SLIM HE i / e



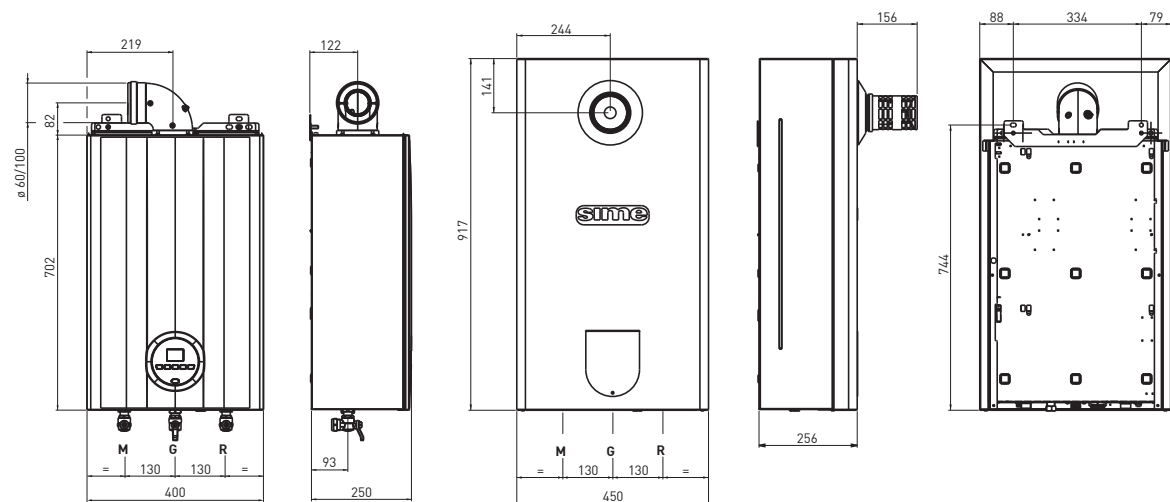
FEATURES		
User interface	5 keys	5 keys
Water gauge	pressure transducer + LCD	pressure transducer + LCD
Display	Medium-sized blue back-lit LCD with 23 symbols	Medium-sized blue back-lit LCD with 23 symbols
Range	28.1kW	21.4kW - 37.5 kW
PERFORMANCES		
Modulation	1:2 Central Heating	1:5 Central Heating 1:6 D.H.W.
Climatic adjustment	integrated	integrated
Anti-freeze function	protection up to -5°C	protection up to -5°C
HOT WATER		
Hot Water Management with dual probe	-	✓ (combi models)
Increased plate exchanger	-	✓ (combi models)
Flow meter	-	✓ (combi models)
OUTDOOR CONNECTIVITY		
Thermostat input	2	2
Settable temperature levels	1	1
Remote alarm	✓ accessory	✓ accessory
Settable temperature levels	✓ accessory	✓ accessory

## TECHNICAL FEATURES

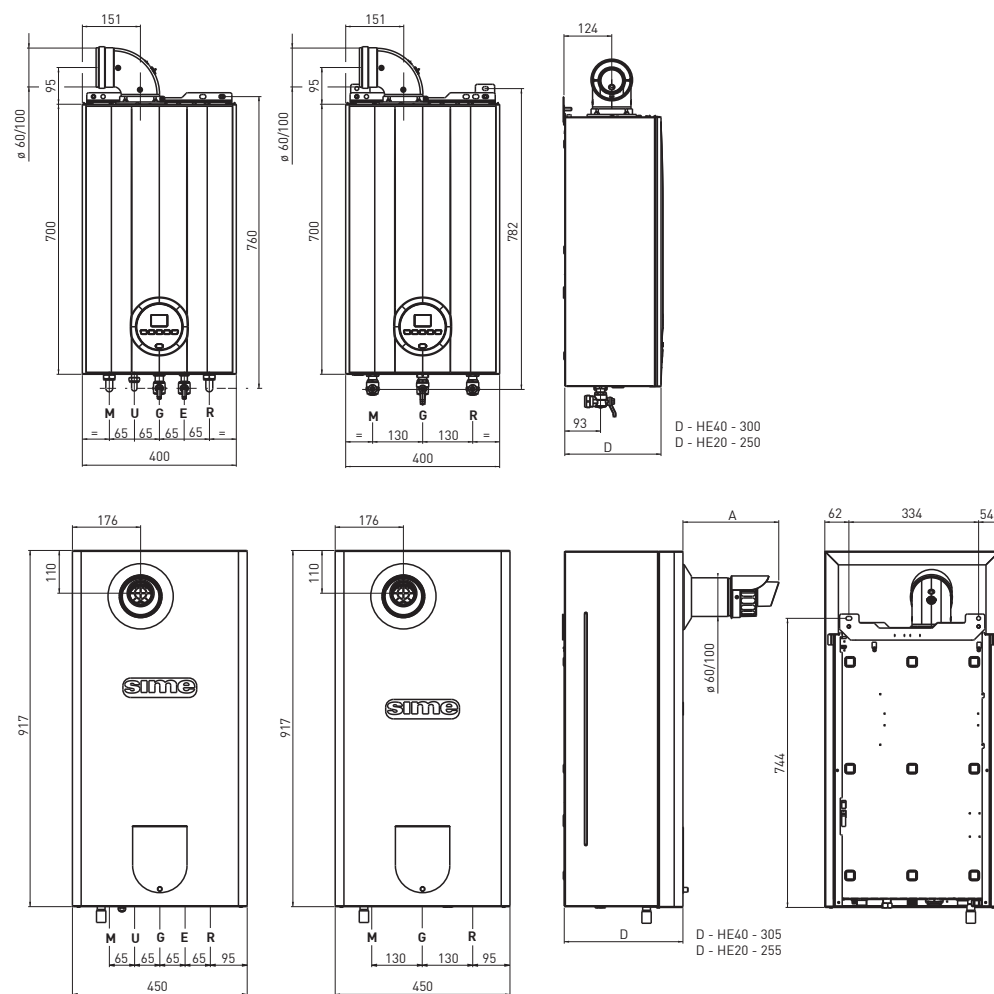
CONDENSING		BRAVA SLIM HE		
MODEL		20 R i - 20 R e	40 R i - 40 R e	40 i - 40 e
Product Codes		Internal 1319475 External 1319476	Internal 1319473 External 1319474	Internal 1319471 External 1319472
<b>HEATING PERFORMANCE</b>				
Nominal heat input	MJ/h	80	140	140
Minimum heat input	MJ/h	16	28	28
Nominal heat output (80-60°C)	kW	19.7	34.5	34.5
Nominal heat output (50-30°C)	kW	21.4	37.5	37.5
Minimum heat output (80-60°C)	kW	3.9	6.9	6.9
Minimum heat output (50-30°C)	kW	4.3	7.5	7.5
Max useful efficiency (80-60°C)	%	98.5	98.6	98.6
Min useful efficiency (80-60°C)	%	97.5	98.6	98.6
Max useful efficiency (50-30°C)	%	107.0	107.1	107.1
Min useful efficiency (50-30°C)	%	107.5	107.1	107.1
<b>HOT WATER PERFORMANCE</b>				
Nominal heat input	MJ/h	–	–	160
Minimum heat input	MJ/h	–	–	28
Hot Water flow rate at 25°C temp rise	l/min	–	–	22.9
Max/Min pressure	bar	–	–	7 / 0.7
Absorbed electrical power	W	105	135	135
Electrical protection degree	IP	X5D	X5D	X5D
Smoke temperature at Max / Min flow (80-60°C)	°C	82 / 66	75 / 62	75 / 62
Smoke temperature at Max / Min flow (50-30°C)	°C	59 / 45	54 / 39	54 / 39
Smoke flow Max / Min	g/s	11.2 / 1.9	18.6 / 3.3	18.6 / 3.3
CO <sub>2</sub> at Max / Min flow rate	%	9.0 / 9.0	9.0 / 9.0	9.0 / 9.0
Max. operating temperature	°C	85	85	85
Heating adjustment range	°C	20÷80	20÷80	20÷80
Hot water adjustment range	°C	–	–	10÷60
Max operating pressure	bar	3	3	3
Water content in boiler	l	4.6	5.6	5.6
Dimensions (P)	mm	250	300	300
Dimensions (A)	mm	300	300	250
Weight vers. i / e	kg	28.5 / 30.0	30.0 / 32.0	32.5 / 35.0

CONVENTIONAL		BRAVA SLIM	
MODEL		30 BFR i - 30 BFR e	
Product Codes		Internal 1319477 External 1319478	
HEATING PERFORMANCE			
Nominal heat input	MJ/h	120	
Minimum heat input	MJ/h	60	
Nominal heat output (80-60°C)	kW	28.1	
Minimum heat output (80-60°C)	kW	13.1	
Max useful efficiency (80-60°C)	%	93.7	
Min useful efficiency (80-60°C)	%	87.3	
Absorbed electrical power	W	113	
Electrical protection degree	IP	X5D	
Smoke temperature at Max / Min flow (80-60°C)	°C	150 / 100	
Smoke flow Max / Min	g/s	19 / 19	
CO <sub>2</sub> at Max / Min flow rate	%	7.1 / 2.3	
Max. operating temperature	°C	85	
Heating adjustment range	°C	20÷80	
Max operating pressure	bar	3	
Water content in boiler	l	3.65	
Weight vers. i / e	kg	29 / 30.5	

## CONVENTIONAL VERSION - 30BF



## CONDENSING VERSION -HE



# FLUE OPTIONS

## Brava Slim Conventional

DESCRIPTION	CODE	
	Ø 60/100MM	Ø 80/125MM
Horizontal duct kit	1318327	1318328
Extension W. 1000mm	1318333	1318334
Extension W. 500mm	1318335	-
Vertical Starter Extension W.200mm with smoke analysis take - off point	1318337	-
Adapter for Ø 80/125mm	-	1318339
Additional 90° curve	1318344	1318345
Additional 45° curve	1318346	1318347
Roof outlet terminal W. 1284mm (Vertical)	1318349	1318349

## Brava Slim Condensing/Combi

DESCRIPTION	CODE	
	Ø 60/100MM	Ø 80/125MM
Horizontal duct kit	1318325	1318326
Extension W. 1000mm	1318329	1318330
Extension W. 500mm	1318331	1318332
Vertical Starter Extension W.200mm with smoke analysis take - off point	1318336	-
Adapter for Ø 80/125mm	-	1318338
Additional 90° curve	1318340	1318341
Additional 45° curve	1318342	1318343
Roof outlet terminal W. 1284mm (Vertical)	1318348	1318348

## LOAD LOSS - EQUIVALENT LENGTHS

MODEL	LEQ (LINEAR METRES)	
	Ø 60/100M	Ø 80/125MM
90° curve	1	1
45° curve	0.5	0.8

## LOAD LOSS - EQUIVALENT LENGTHS

MODEL	LEQ (LINEAR METRES)	
	Ø 60/100M	Ø 80/125MM
90° curve	1.5	2
45° curve	1	1

## MINIMUM -MAXIMUM LENGTHS

MODEL	DUCT LENGTH Ø 60/100				DUCT LENGTH Ø 80/125			
	W Horizontal (m)		H Vertical (m)		W Horizontal (m)		H Vertical (m)	
	Min	Max	Min	Max	Min	Max	Min	Max
	-	3	1.3	5	3	6	4	7

## MINIMUM -MAXIMUM LENGTHS

MODEL	DUCT LENGTH Ø 60/100				DUCT LENGTH Ø 80/125			
	W Horizontal (m)		H Vertical (m)		W Horizontal (m)		H Vertical (m)	
	Min	Max	Min	Max	Min	Max	Min	Max
	-	6	1.3	8	-	12	1.2	15
	-	4	1.3	6	-	10	1.2	13

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