sime

VALUING YOUR CLIMATE

EDEA

Conventional and condensing wall hung boilers

For over 50 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 50 years Sime has been building some of the most intelligent domestic boilers. The EDEA range has a guaranteed warranty of 3 years on parts and labour. 10 years on the heat exchanger.

EDEA RANGE: EFFICIENCY, INNOVATION, FLEXIBILITY

The Sime EDEA range represents technological excellence and reliability for home heating. Designed to meet the needs of the most demanding customers, these wall-hung boilers deliver high performance, safety, and significant energy cost savings. Available in versions for both indoor and outdoor installations, EDEA boilers combine compact dimensions with innovative solutions for greater efficiency and convenience.

Versatile solutions for every heating need.
The EDEA range includes low-temperature conventional models designed exclusively for space heating and condensing models available in high efficiency heating-only versions and combi versions for heating and hot water production in a single, compact unit.

Ideal for powering underfloor heating systems, radiator panels, or towel rails, EDEA stands out for its energy efficiency and ease of use.
Compact yet powerful
EDEA strikes the perfect balance between advanced technology, flexibility, and space-saving design, delivering outstanding performance even in confined spaces.
Small in size, big in performance.

CONDENSING	H	L	W
HM 20 Ri (indoor)	700	400	250
HM 20 Re (outdoor)	917	450	254
HM 40 Ri (indoor)	700	400	250
HM 40 Re (outdoor)	917	450	254
CONDENSING COMBI (HEATING & HOT WATER)			
HM 40 i (indoor)	700	400	250
HM 40 e (outdoor)	917	450	254
CONVENTIONAL			
BF 30 Ri (indoor)	700	450	250
BF 30 Re (outdoor)	917	500	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.

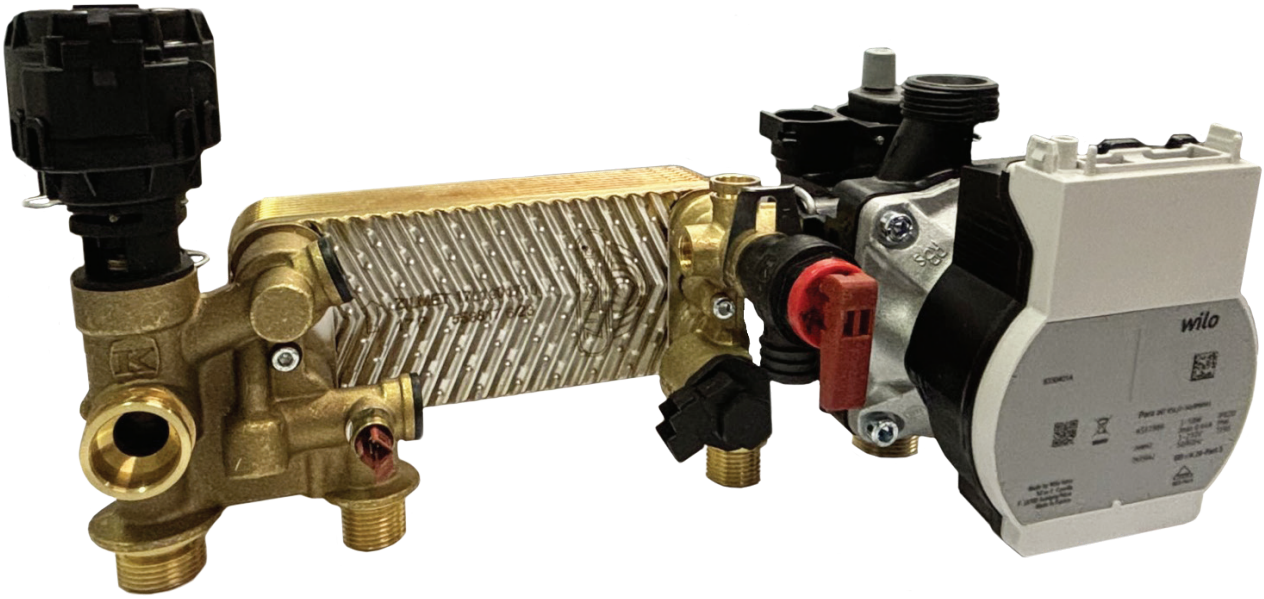
> 3 piece casing for easy installation and service.

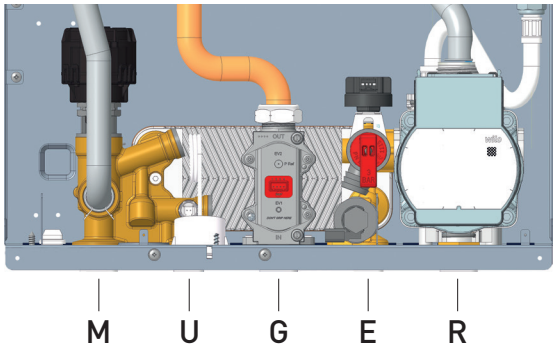
> Wide range of accessories.

> Outdoor case built for Australian weather conditions.

BRASS
HYDRAULIC UNIT

The EDEA 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.

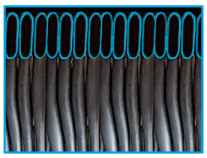


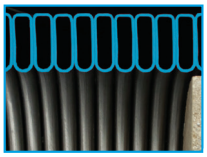


HYDRAULIC CONNECTIONS		
M	System flow	¾
U*	H.W outlet	½
G	Gas Supply	¾
E*	H.W Inlet	½
R	Return Flow	¾

* Combi only

STANDARD
MARKET
HEAT EXCHANGER





STAINLES STEEL HEAT
EXCHANGER WITH
LARGE SECTION

EDEA HM
High efficiency Condensing Boilers

A highly compact new-generation condensing boiler, EDEA HM is the ideal solution for modern home environments combining high performance and efficiency in a compact wall-hung unit.
EDEA HM is equipped with the best technologies to ensure reliability and flexible installation.

HIGH MODULATION
Power modulation up to 1:9

HIGH-EFFICIENCY MODULATING CIRCULATOR PUMP
Suitable also for radiant heating systems

EXPANDED D.H.W. HEAT EXCHANGER
Featuring high performances, with thermal insulation and pre-heating function

LARGE SECTION EXCHANGER
A new stainless steel mono-tube heat exchanger with enlarged cross-sectional dimensions for the water flow

3-PIECES METAL CASING
For easier maintenance

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 EDEA 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.

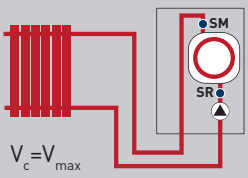
The radial pre-mix burner is made of stainless steel and positioned at the centre of the combustion chamber. It produces a "microflame" at low temperature which reduces the production of pollutants (CO and NOx) significantly.

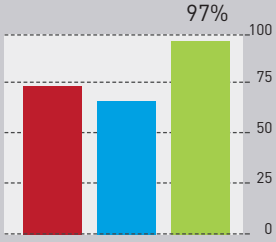
What's more, the air and the gas are pre-mixed in an ideally balanced ratio for maximum efficiency. This allows for superior performance compared to conventional boilers.

HIGH EFFICIENCY MODULATING CIRCULATION PUMP

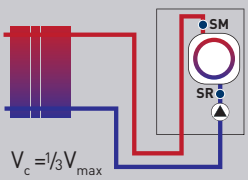
The maximum energy efficiency of a condensing boiler is obtained when the return temperature of the plant is lower than 45-50°C.
This is why the common thought is that the condensing boiler must be connected to low temperature radiant systems.
With EDEA HM, if necessary, the flow rate decreases automatically, which extends the duration of the exchange with the environment and lowers the temperature of the water returning to the boiler. Consequently, EDEA HM self-regulates so that it always operates in condensing mode, regardless of the type of system served. The variable-capacity circulator pump is extremely useful when replacing existing systems, which are normally based on conventional radiators.

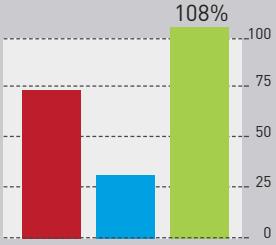
HIGH SPEED OF THE CIRCULATION PUMP



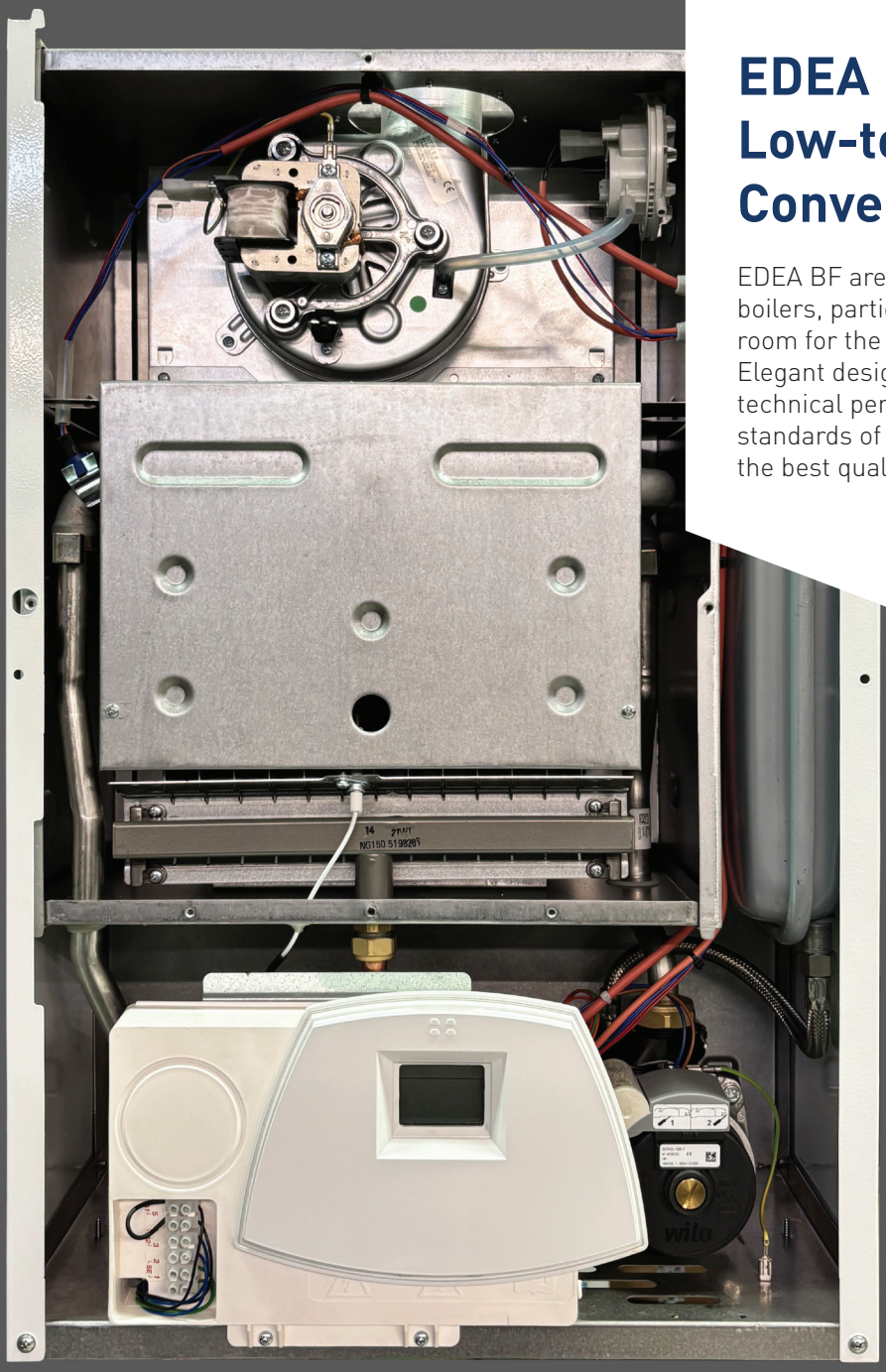


LOW SPEED OF THE CIRCULATION PUMP





Flow Temperature (°C) Return Temperature (°C)



EDEA BF
Low-temperature Conventional Boilers

EDEA BF are compact wall-mounted boilers, particularly suitable where the room for the installation is shrinked. Elegant design, ease of use and exceptional technical performances ensure high standards of central heating, guaranteeing the best quality Sime has to offer.

HIGH RELIABILITY
Thanks to proven quality components

AIR PRESSURE SWITCH CONTROL

3-PIECES METAL CASING
For easier maintenance

BACKLIGHTED LCD DISPLAY
With cover flap, user knobs and functional buttons

WIDE RANGE OF ACCESSORIES

RANGE

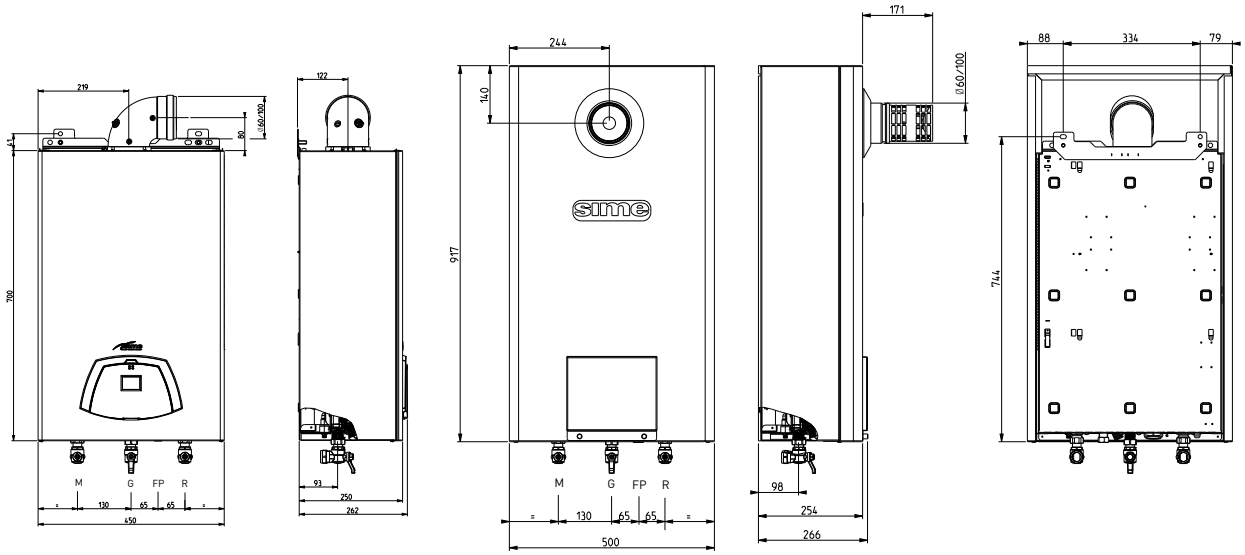
	CONVENTIONAL	CONDENSING
	EDEA BF R i / e	EDEA HM i / e
		
FEATURES		
User interface	3 keys + 1 knob	3 keys + 2 knobs
Water gauge	pressure transducer + LCD	pressure transducer + LCD
Display	Medium-sized blue back-lit LCD with 23 symbols	Medium-sized blue back-lit LCD with 23 symbols
Range	28.1 kW	19.7 - 38.2 kW
PERFORMANCES		
Modulation	1:2 Central Heating	1:9 Central Heating 1:9 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

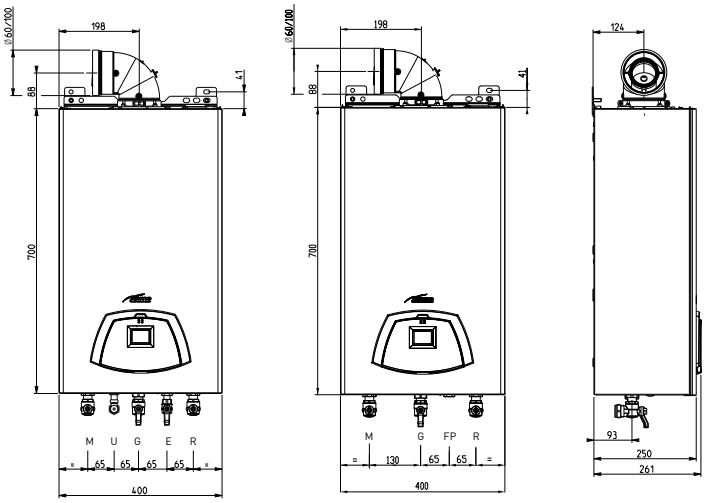
CONDENSING		EDEA HM		
MODEL		**20 R i - 20 R e**	**40 R i - 40 R e**	**40 i - 40 e**
Product Codes		Internal 3855252 External 3855253	Internal 3855254 External 3855255	Internal 3855256 External 3855257
HEATING PERFORMANCE				
Nominal heat input	MJ/h	80	158	158
Minimum heat input	MJ/h	10 (NG) 14 (LPG)	18 (NG) 21.5 (LPG)	18 (NG) 21.5 (LPG)
Nominal heat output (80-60°C)	kW	19.7	38.2	38.2
Nominal heat output (50-30°C)	kW	21.4	40.9	40.9
Minimum heat output (80-60°C)	kW	2.3 (NG) 3.2 (LPG)	4.2 (NG) 5.1 (LPG)	4.2 (NG) 5.1 (LPG)
Minimum heat output (50-30°C)	kW	2.6 (NG) 3.6 (LPG)	4.6 (NG) 5.6 (LPG)	4.6 (NG) 5.6 (LPG)
Max useful efficiency (80-60°C)	%	98.5	96.7	96.7
Min useful efficiency (80-60°C)	%	95.3	93	93
Max useful efficiency (50-30°C)	%	107	103.5	103.5
Min useful efficiency (50-30°C)	%	105	101.2	101.2
HOT WATER PERFORMANCE				
Nominal heat input	MJ/h	–	–	158
Minimum heat input	MJ/h	–	–	18
Hot Water flow rate at 25°C temp rise	l/min	–	–	22.8
Max/Min pressure	bar	–	–	7 / 0.7
Absorbed electrical power	W	82	133	133
Electrical protection degree	IP	X5D	X5D	X5D
Smoke temperature at Max / Min flow (80-60°C)	°C	72 / 52	74 / 56	74 / 56
Smoke temperature at Max / Min flow (50-30°C)	°C	54 / 40	56 / 38	56 / 38
Smoke flow Max / Min	g/s	11.2 /1.9	18.7 / 2.2	18.7 / 2.2
CO_2 at Max / Min flow rate	%	9.0 / 9.0	9.2 / 9.0	9.2 / 9.0
Max. operating temperature	°C	85	85	85
Heating adjustment range	°C	20÷80	20÷80	20÷80
D.H.W. adjustment range	°C	–	–	10÷60
Max operating pressure	bar	3	3	3
Water content in boiler	l	5.1	5.8	5.8
Weight vers. i / e	kg	26 / 31	29 / 34.5	30.5 / 35.5

CONVENTIONAL		EDEA BF
MODEL		**30 BFR i - 30 BFR e**
Product Codes		Internal 3855250 External 3855251
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_2 at Max / Min flow rate (NG)	%	7.1 / 2.3
CO_2 at Max / Min flow rate (LPG)	%	7.8 / 2.7
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	31 / 36.5

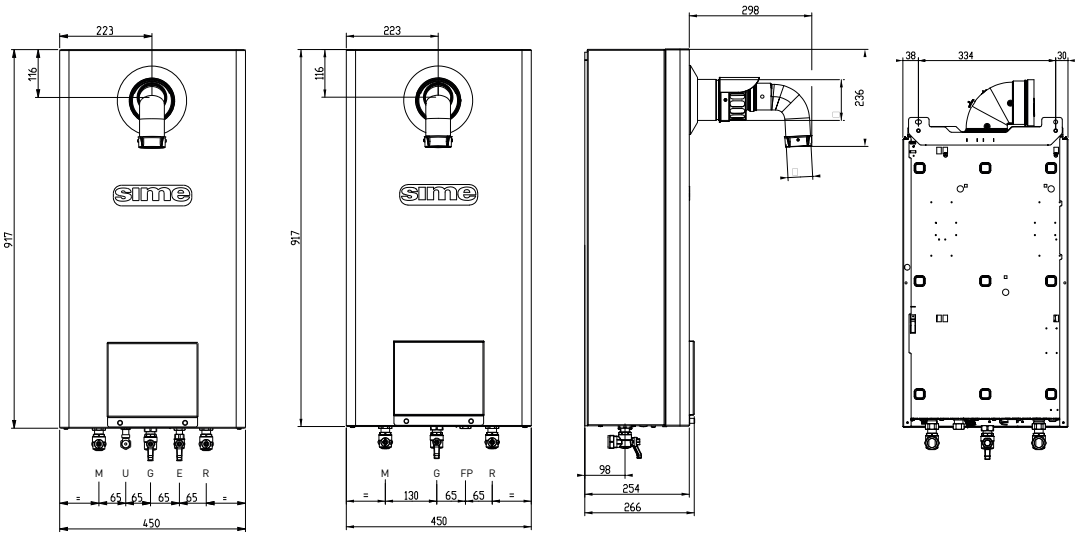
CONVENTIONAL VERSION - BF



CONDENSING VERSION - HE



HYDRAULIC CONNECTIONS		
M	System flow	¾
U	H.W outlet	½
G	Gas Supply	¾
E	H.W Inlet	½
R	Return Flow	¾
FP	Fill Point	½



RANGE

EDEA 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 80/125 mm	-	1318339
Additional 90° curve	1318344	1318345
Additional 45° curve	1318346	1318347
Roof outlet terminal W. 1284mm (Vertical)	1318349	1318349

EDEA Condensing

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 80/125 mm	-	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 60/100MM	Ø 80/125MM
90° curve	1	1
45° curve	0.5	0.8

LOAD LOSS - EQUIVALENT LENGTHS

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

MINIMUM - MAXIMUM LENGTHS

MODEL	DUCT LENGTH Ø 60/100MM				DUCT LENGTH Ø 80/125MM			
	W Horizontal (m)		W Vertical (m)		W Horizontal (m)		W 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 60/100MM				DUCT LENGTH Ø 80/125MM			
	W Horizontal (m)		W Vertical (m)		W Horizontal (m)		W 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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