Heat pump systems
EOS R290



fiorini

Air-water heat pumps
EOS R290

The EOS R290 heat pump water heater line combines maximum efficiency with environmental sustainability. Thanks to the use of the natural refrigerant R290, the system ensures high thermal performance while drastically reducing ecological impact. By harnessing renewable energy from the air, EOS delivers outstanding energy savings, limiting the use of electric heating elements to boost or emergency functions only. An advanced, versatile solution aligned with the highest standards of comfort and efficiency.



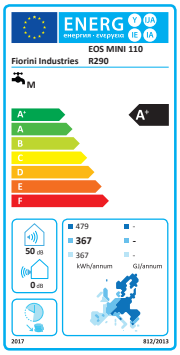
Internal protective coating: enamelled coating
Insulation: 50mm of polyurethane foam
High efficiency and savings: A+ class
Integrated touchscreen display: User-friendly interface for management and monitoring
Anode: electronic and magnesium anticorrosion
Auxiliary coil heat exchanger for EOS 250 R290: for external source (solar/boiler)

- ✔ 3.2 for EOS MINI R290 models; 3.56 for EOS 250 R290
- ✔ Wider range of possible energy sources
- ✔ High performance compressor
- ✔ Micro-Channel Capacitor
- ✔ Possibility to program the operation according to the time bands or remote contact on / off
- ✔ ECO mode: heat pump operations attach priority to the production of hot water
- ✔ HOLIDAY mode: The heat pump stops working during the set holiday period. It turns on the day before the end of the period in AUTO mode to prepare hot water upon returning home.

Installation: EOS 250 R290 is free to install; EOS Mini models are wall units and are supplied complete with support for the montage. Possibility of ducting suction / delivery to use ambient or external air.
Programming: The control of the water heater allows the inhibition of operation in the periods programmed by the user (for example when the cost of energy is high). To maximize the performance of the heat pump, it is possible to raise the setpoint to 65°C via digital control, optimizing thermal storage. Programming allows you to select the simultaneous operation of the compressor and heater or just one of the two.
Anti-legionella function: The water is automatically heated to 65 ° C, every seven days, to eliminate any bacteria that may form in the tank.

Start-up: the first start-up is recommended. See page 361



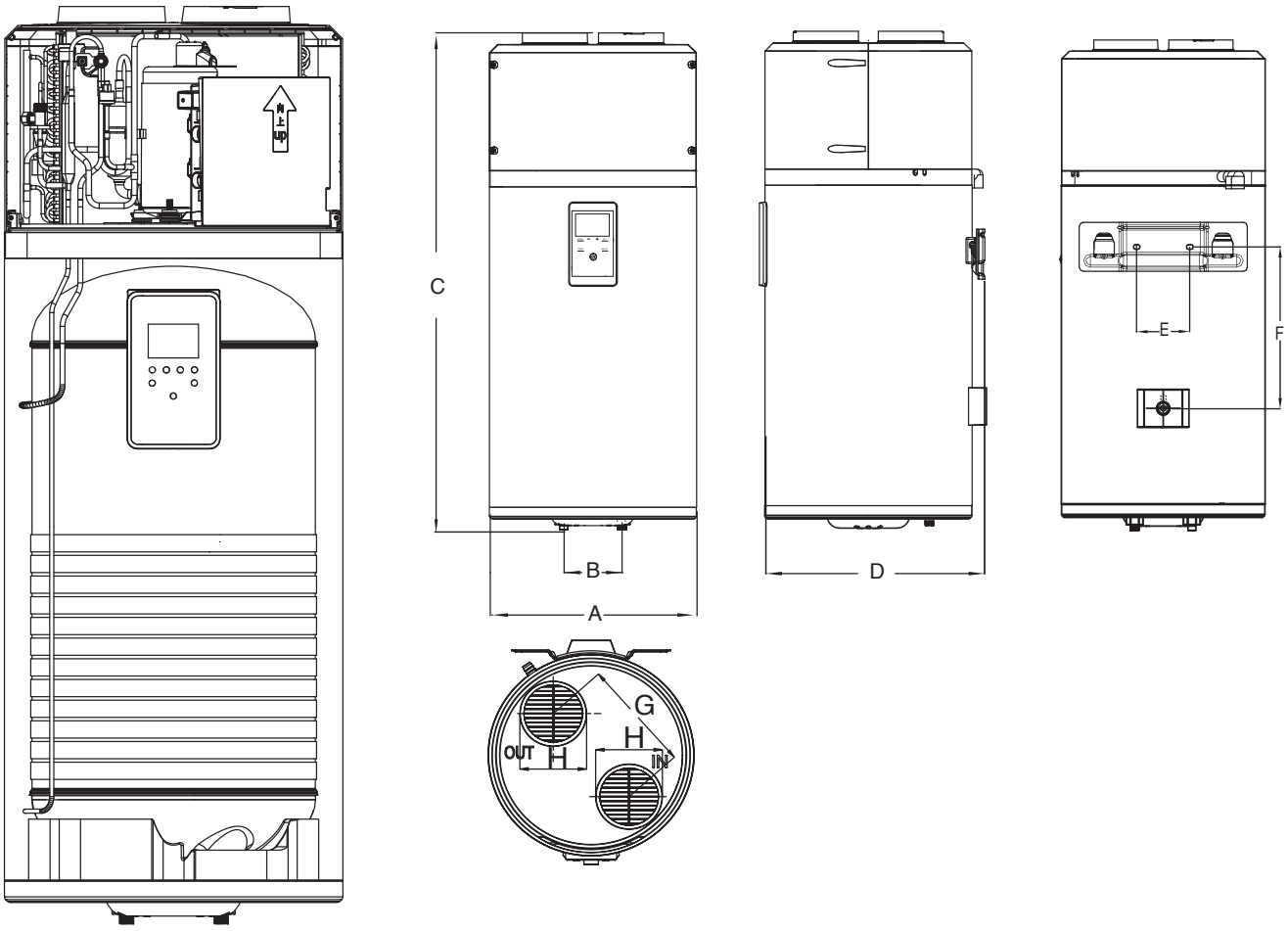


			Vertical Packaging	
Model	Code	Price	Dimensions cm	Weight kg
EOS MINI 80 R290	844020023X		587x587x1262	59
EOS MINI 110 R290	844020022X		587x587x1322	63
EOS 250 R290	844020021X		736x605x2135	138

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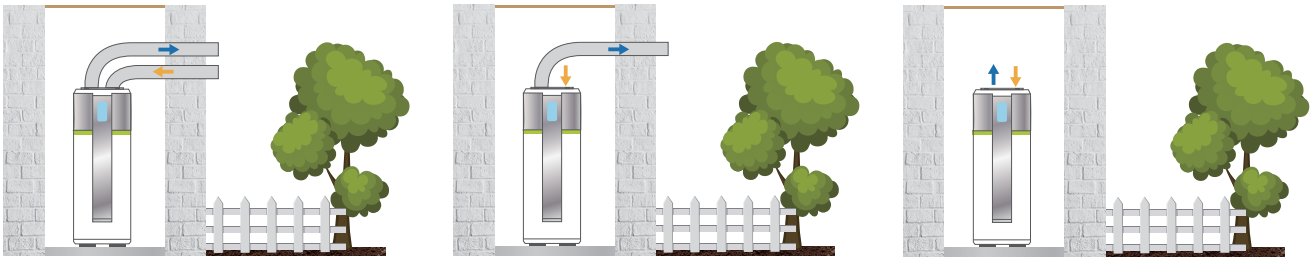
Características	U.M.	EOS MINI 80 R290	EOS MINI 110 R290	EOS 250 R290
Installation		Wall unit	Wall unit	Floor-standing
Tank volume	l	80	110	240
Power supply	V-Hz	220-240V/50Hz	220-240V/50Hz	220-240V/50Hz
Tank pressure	bar	8	8	7
Extra coil exchange surface	m^2	-	-	1
Electronic anode	n.	1	1	1
Anticorrosion magnesium anode	n.	1	1	1
IP protection class		IPX4	IPX4	IPX4
System data				
Auxiliary electric resistance power	W	1200	1200	1500
Average power consumption (heat pump only)	W	250	250	320
Maximum absorbed power (heat pump only)	W	370	370	535
Maximum absorbed power (with electrical resistance)	W	1570	1570	2035
Nominal power (heat pump only)	W	250	250	1815
Default water temperature	°C	56	56	56
Water temperature range with resistance	°C	35÷75	35÷75	35÷75
Water temperature range heat pump only	°C	35÷65	35÷65	35÷65
Refrigerant type	Type	R290	R290	R290
Refrigerant quantity	kg	0.12	0.12	0.15
Max pressure of the refrigeration circuit (suction / delivery)	Mpa	1.0/3.3	1.0/3.3	1.0/3.3
Ozone Elimination Potential (ODP)		0	0	0
Global warming potential (GWP)		3	3	3
Sound power	dB(A)	50	50	59
Sound pressure level at 2 m in open field	dB(A)	36	36	43
Operating temperature	min-max °C	-7÷45	-7÷45	-7÷45
Performance				
Type of extraction		Ambiente / Esterno	Ambiente / Esterno	Ambiente / Esterno
COP at 7 ° C (EN16147)		2,91	2,79	3,29
COP at 14 ° C (EN16147)		3,07	3,32	3,46
Heating time at 7 ° C)	h	4 h 26 min	5 h 38 min	10 h 09 min
Heating time at 14 ° C)	h	3 h 48 min	4 h 47 min	8 h 70 min
Tapping cycle (EN16147)		M	M	L
Power consumption in standby / Pes (@ 7 ° C)	W	15,3	19,3	29
Maximum usable volume of hot water (EN16147) V40	l	103.8	133	313
Energy efficiency class (ERP)		A+	A+	A+
Dimensions and connections				
Water outlet	Inch	G1/2"M	G1/2"M	G3/4"F
Water inlet / Condensate drain	Inch	G1/2"M	G1/2"M	G3/4"F
Safety valve	Inch	G1/2"M	G1/2"M	G3/4"F
Duct hole diameter for air intake / delivery	mm	Ø 160	Ø 160	Ø 160
Max length of air intake ducts	m	40	40	22
Dimensions (LxWxH)	mm	492x547x1184	492x547x1334	600x620x1989
Net weight	kg	51	54	113

Air-water heat pumps
EOS MINI R290

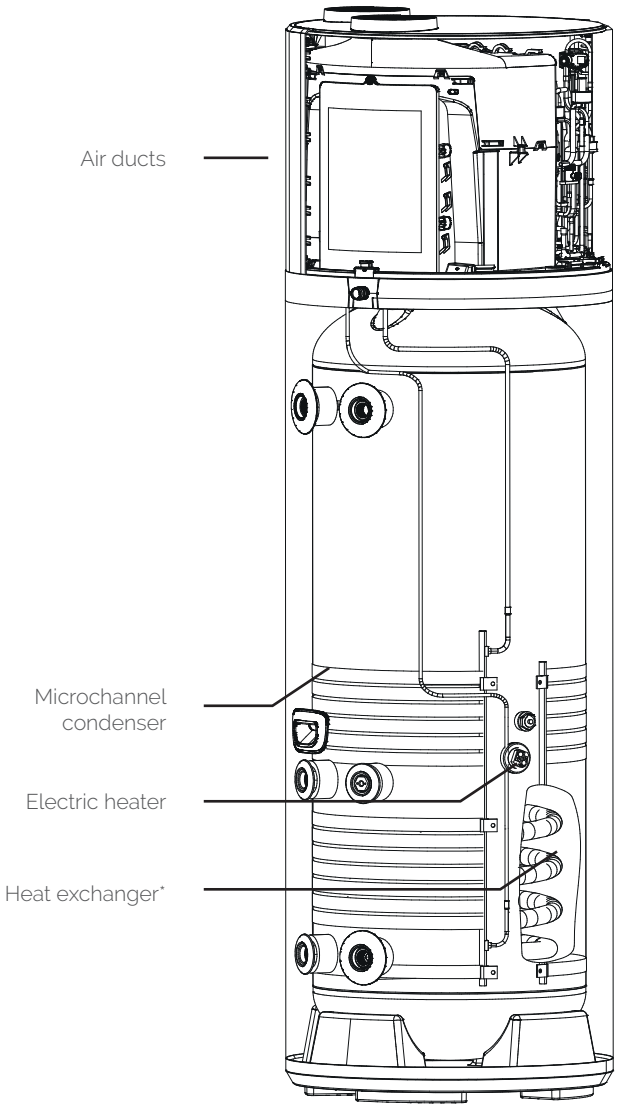


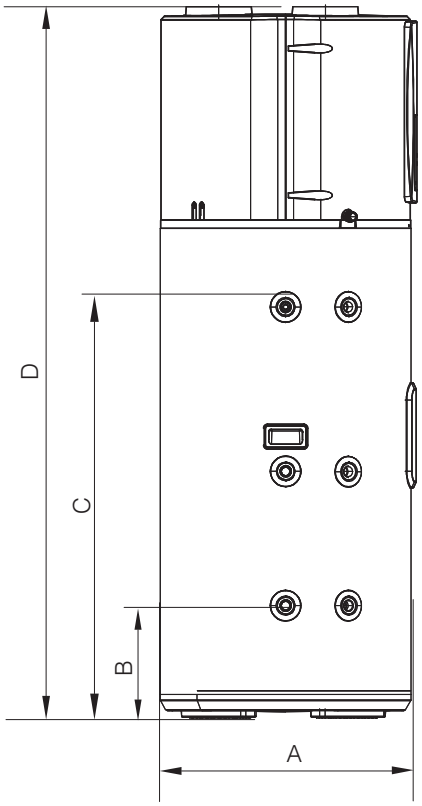
Dimensions

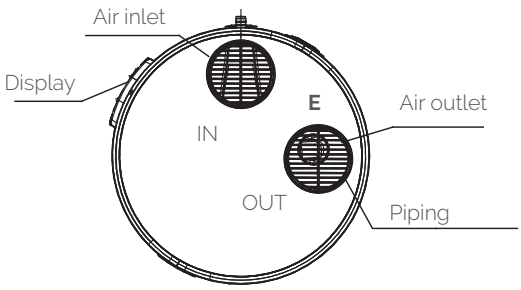
Model	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm
EOS Mini 80 R290	492	140	1184	547	159	360	272	Ø160
EOS Mini 110 R290	492	140	1334	547	159	510	272	Ø160



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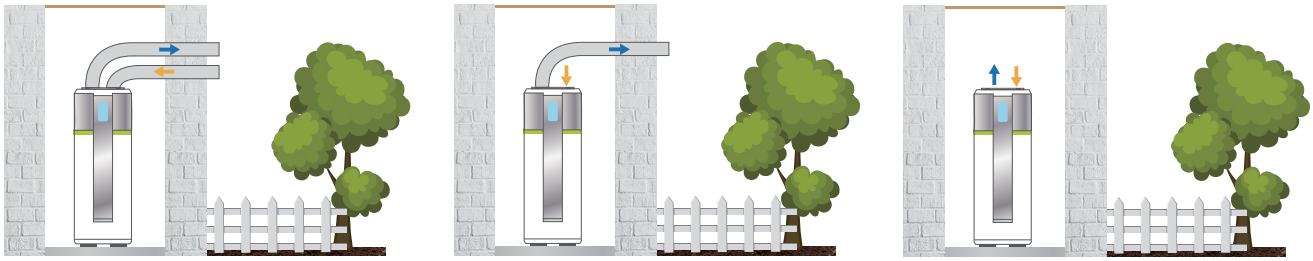






Dimensions

Model	A mm	B mm	C mm	D mm	E mm
EOS 250 R290	629	270	1275	1989	Ø160





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