Heat pump systems
EOS



fiorini

Air-water heat pumps for DHW production EOS

The line of heat pump water heaters was devised to minimize households energy consumption. Unlike a traditional water heater, heat pump water heaters make use of the heat included in the air to generate hot water. This results into a saving in the electricity cost.
The electricity used by the system is only that necessary for the operation of the compressor and fan. The electric heaters are inserted only if really necessary or if requested by the user (with the Boost function).



Internal protective coating: enamelled coating
Insulation: 50mm of polyurethane foam
High efficiency and savings

- ✔ 3.2 for EOS MINI models; 3.56 for EOS 250S
- ✔ 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 pumpt 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 250S 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.
Plus: An additional coil at the bottom of the tank increases the exchange area and improves efficiency, reducing heating times
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). The operation of the heat pump can be maximized! With a digital command it is possible to raise the set point to 65°C. 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.
Auxiliary coil exchanger: for EOS 250S, a coil exchanger for external auxiliary heating source (solar/boiler) is included.



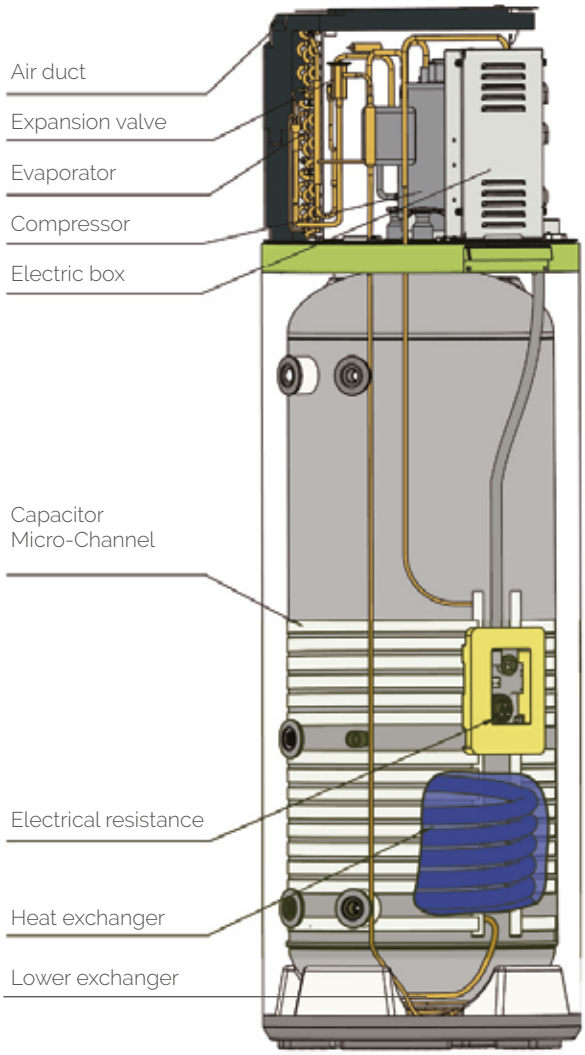
Start-up: the first start-up is recommended. See page 361

model	code	price
EOS MINI 80	844020019X	
EOS MINI 110	844020020X	
EOS 250S	844020018X	

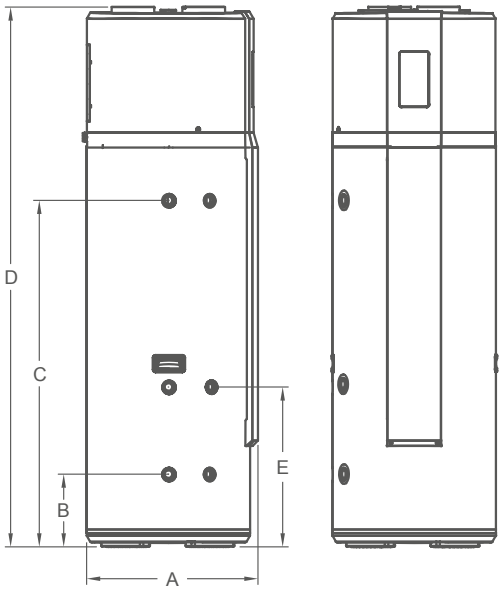
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Tank	U.M.	EOS MINI 80	EOS MINI 110	EOS 250S
Installation		Wall unit	Wall unit	Floor
Tank volume	l	80	110	240
Power supply	V-Hz	220-240V/50Hz	220-240V/50Hz	220-240V/50Hz
Tank pressure	bar	8	8	7
Extra coil exchange surface	m^2	-	-	1
Anticorrosion magnesium anode	n.	1	1	2
IP protection class		IPX4	IPX4	IPX4
System data				
Auxiliary electric resistance power	W	1200	1200	1500
Average power consumption (heat pump only)	W	240	240	495
Maximum absorbed power (heat pump only)	W	350	350	865
Maximum absorbed power (with electrical resistance)	W	1550	1550	2365
Nominal power (heat pump only)	W	672	858	1815
Default water temperature	°C	55	55	55
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 / quantity	Type / kg	R134a / 0,45 kg	R134a / 0,45 kg	kg R134a / 0,9
Max pressure of the refrigeration circuit (suction / delivery)	Mpa	0,8/2,8	0,8/2,8	0,2 / 2,8
Ozone Elimination Potential (ODP)		0	0	0
Global warming potential (GWP)		1430	1430	1430
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 @ 7 ° C (EN16147)		2,71	2,64	3,1
COP @ 14 ° C (EN16147)		3,17	3,2	3,56
Heating time (@ 7 ° C)	h	4 h 58 min	6 h 35 min	6 h 55 min
Heating time (@ 14 ° C)	h	4 h 09 min	5 h 23 min	6 h
Tapping cycle (EN16147)		M	M	L
Power consumption in standby / Pes (@ 7 ° C)	W	20	20	27
Maximum usable volume of hot water (EN16147) V40	l	102,5	132,6	303
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 180
Max length of air intake ducts	m	5	5	5
Water heater dimensions (LxWxH)	mm	492x537x1170	492x537x1320	600x629x1987
Packaging dimensions (LxWxH)	mm	-	-	736x695x2250
Packaging dimensions without pallet (LxWxH)	mm	587x587x1247	587x587x1397	736x695x2120
Gross weight	kg	59	63	132
Net weight	kg	51	55	119

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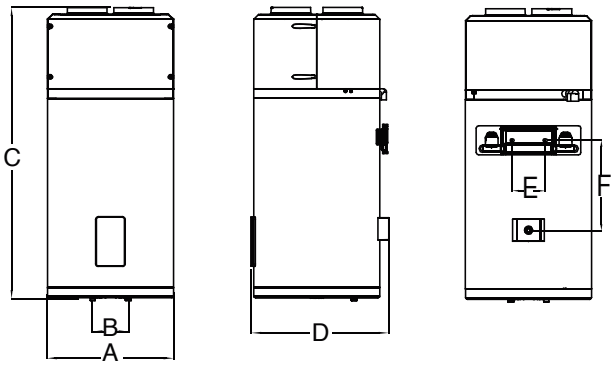


*included on EOS 250S only

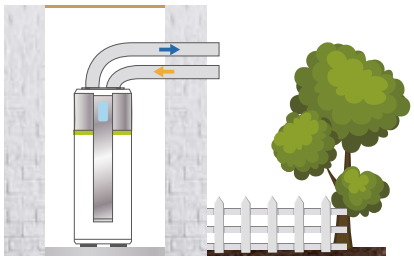


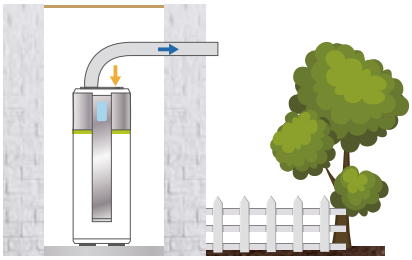
Model	A mm	B mm	C mm	D mm	E mm
EOS 250S	629	270	1275	1987	590

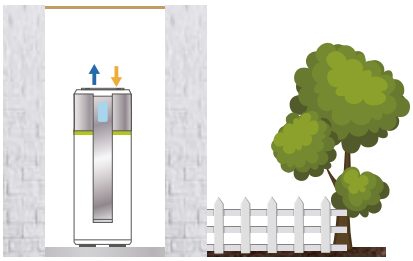
Ducting hole diameter for air suction / delivery Ø 180mm



Model	A mm	B mm	C mm	D mm	E mm	F mm
EOS Mini 80	492	140	1170	537	159	362
EOS Mini 110	492	140	1320	537	159	362









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