ES Air/Water Heat Pumps

ES 8–15 kW R290
Monobloc Series

Economic and effective air-to-water heat pump, designed for a Nordic climate

- 8, 12 and 15 kW heating capacity
- A+++ heating efficiency
- Environmentally friendly refrigerant: GWP 3
- User-friendly touch display
- Internet connectivity, monitor your heating through your mobile
- High heating water output temperatures: up to 70°C
- Two different temperature zones
- Automatic restart in case of power failure
- Operates in conditions down to -25 °C
- Low noise outdoor unit
- Anti-freeze protection device
- Control for back-up heating systems
- Monobloc, no F-gas certification required
- High quality components
- Short payback time
- KEYMARK certified

User-friendly touch screen interface
The interface enables quick adjustment of all temperature settings directly from the front page. The software also supports variable temperature settings (curve) for both heating and cooling.

5 years COMPRESSOR WARRANTY

A+++

<dB Low noise

R290 ECO FRIENDLY REFRIGERANT

CONTROL VIA INTERNET

ES SMARTPHONE CONTROLLED

SG Ready

KEYMARK certificate

ES ENERGY SAVE

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ES 8–15 kW R290 Monobloc Series

Converts energy from the outdoor air to heat and domestic hot water

By utilising the energy from outdoor air, you can reduce your energy bills in an eco-friendly way, and at the same time creating the perfect level of comfort for your home. ES M R290 is designed to replace or supplement an existing heat source or for new installations.The indoor unit has a stylish design to fit into a modern home. All connections are easily accessible at the top of the unit.

Designed to provide maximum energy savings and quiet operation

By using components from leading suppliers (see table) and smart control, great energy savings and quiet operation are made possible. All ES M R290 series are rated A+++.

Simple and cost-effective installation

In a monobloc system the outdoor unit has a closed refrigerant circuit and a heat exchanger. The outdoor unit can be connected directly to the heating system, which means that no refrigeration technicians are needed during installation. The automatic and self-learning defrost function, combined with the nano-coated evaporator, reduces defrosting time to a minimum and increases the efficiency.

Control your heating system

ES M R290 can be controlled locally or remotely via smartphone or computer. Make all the necessary settings for an efficient, trouble-free operation with the user-friendly touch display. Even when you are not at home you have full control of your heating system via your smartphone or computer.

Two heating curves

ES M R290 uses a heat curve to provide a constant indoor temperature, regardless of the outdoor temperature. When the outdoor temperature drops, the heat pump raises the temperature of the water to the heating system and vice versa when the outdoor temperature rises. Different heating systems require different temperatures, e.g. floor heating and radiators. ES M R290 have the possibility to set two heating curves if you have two different heating systems in your home. With two heating curves the possibilities to save even more energy is possible and, in some cases, costs on components that would otherwise have to be installed in the system.

Upgrade your system with ES M R290

All, correct dimensioned, heat pump systems need back-up during the coldest days. ES M R290 is designed to operate in hybrid systems, together with all kinds of heating systems. If your existing boiler works – keep it as back-up.

			ES M8 R290	ES M12 R290	ES M15 R290
Min/max heating capacity (1)		kW	3.1–9.5	3.8–12	5.6–16.5
El. power input in heating min/max (1)		W	585/2,089	900/3,065	1,120/4,170
COP min/max (1)		W/W	4.55/5.1	3.92/4.8	3.98/5.05
Min/max heating capacity (2)		kW	2.7/9.0	3.7/ 11.0	5.3/15.5
El. power input in heating min/max (2)		W	725/2,400	1,100/3,350	1,370/4,770
COP min/max (2)		W/W	3.75/4.0	3.28/3.7	3.25/3.85
SCOP – Average climate, low temperature		W/W	4,73	4,72	4,72
Min/max cooling capacity (3)		kW	2.4 / 8.0	5.0/10.2	6.9/13.2
El. power input in cooling min/max (3)		W	765/2,100	1,400/2,840	1,540/3,650
E.E.R. min/max (3)		W/W	3.80/4.0	3.6/3.9	3.65/4.4
Energy class, average, low temp.			A+++	A+++	A+++
Defrost upon demand			Yes		
Heating cable for defrosting			Yes		
Compressor pre-heat			Yes		
Electronic expansion valve			Yes		
ErP approved circulation pump	Manufacturer		Wilo		Grundfors
	Type		Para 25-130/9-87/IPWM1		UPMXL GEO 25-125 130P PWM
	ErP classification		≤ 0.21		< 0.23
	Flow sensor		HuBa TYPE-236 DN25 G1-1/2		
Compressor	Manufacturer		Highly		
Fan	Manufacturer		Nidec		
	Quantity	pcs	1		2
	Airflow	m³/h	3,150	3,300	6,300
	Rated power	W	62	62	62 x 2
Sound power level	Outdoor unit	dB (A)	57	56	57/60
Plate heat exchanger	Manufacturer		Kelvion		SWEP
	Water press. drop	kPa	8	15	23
	Piping connection	Inch	G1"	G1"	G1-1/4"
Residual current device and overvoltage protection			Required		
Power supply, grounded	Outdoor unit	V/N/Hz	230/1/50	230/1/50	400/NA/50 / 230/NA/50
Refrigerant	Type	kg	R290/0.7	R290/0.9	R290/1.5
	GWP (global warming potential)	GWP	3		
Dimensions (WxDxH)	Outdoor unit	mm	1,165 × 885 × 370	1,165 × 885 × 370	1,085 × 1,450 × 390
	Indoor unit	mm	450 × 380 × 135		
Net weight	Outdoor unit	kg	126	135	172
	Indoor unit	kg	10		
Article number indoor/outdoor			120315/120702	120315/120703	120315/120704 or 120707

(1) eating condition: water inlet/outlet temperature: 30 °C/35°C, Ambient temperature: DB 7 °C /WB 6 °C **(2)** Heating condition: water inlet/outlet temperature: 40°C/45°C, Ambient temperature: DB 7 °C /WB 6 °C. **(3)** Cooling condition: water inlet/outlet temperature: 23 °C/18°C, Ambient temperature: DB 35 °C /WB 34 °C

ES ENERGY SAVE HOLDING AB (PUBL)
Metallgatan 2–4, SE 44132 Alingsås · Sweden
0046 322-790 50 · info@energysave.se · www.energysave.se

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