

ES Air-to-Water Heat Pumps

ES M R290 Series

8–15 kW with Control Box

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

By utilising energy from outdoor air, you reduce your energy bills and CO₂ footprint while creating the perfect comfort level. The ES air-to-water heat pump can replace or supplement your existing heating system or be installed in new constructions.

New design for modern households

Our new heat pump has a new design that aligns with the interior of most modern households and features a responsive high-resolution touchscreen.

Optimised energy production and compliance

The ES M R290 series has a simple online registration and connection process. Its energy management features enable easy monitoring of consumption and production.

Update an existing system

The Control Box is a dockable indoor unit which can modernize and improve the efficiency of a heating system with

an existing water volume. This way, you get an updated and more environmentally friendly heating system and keep your existing boiler as a backup. The ES M R290 series can deliver water with an output temperature of up to 70 °C, comparable with gas and oil boilers.

High performance and safe system

The ES M R290 series uses the refrigerant propane in a closed circuit in the outdoor unit, making it a safe solution. Powered by electricity, the heat pump adds energy from the outdoor air, providing a high price/performance ratio and short payback time.

Simple, fast and reliable installation and service

The monobloc system, along with the new features in the controller, makes the installation process much easier. The heat pump can be controlled locally or remotely via smartphone (end-user) or computer (installer), simplifying the service process.



Swedish Ingenuity

- Developed in Sweden
- Components from leading brands
- Environmentally friendly R290 refrigerant with low GWP (3)
- Anti-freeze protection
- Automatic restart in case of power failure
- KEYMARK certified
- SG Ready
- Monobloc, no F-gas certification required

Comfortable and Efficient

- 8, 12 and 15 kW heating capacity
- A+++ heating efficiency
- High price/performance ratio
- Short payback time
- Low-noise outdoor unit
- Two different temperature zones, supporting both heating and cooling
- High heating water output temperatures: up to 70 °C
- High performance cooling

E-Readiness

- Internet connection via cable or Wi-Fi
- End-user APP
- Fleet management system for control and support
- Electrical Grid Protection (EGP) functionality
- Control for backup heating systems
- Easy-to-use, high-resolution, high-sensitivity touchscreen

		ES M8 R290	ES M12 R290	ES M15 R290, 1 Ph	ES M15 R290, 3 Ph	
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	1,231/4,250	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	4.72/4.7		
Min/max cooling capacity (3)	kW	2.4 / 8.0	5.0/10.2	6.6/13.5	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	3.80/4.00	3.60/3.90	3.60/4.38	3.65/4.40	
Energy class, average, low temp.				A+++		
Defrost upon demand				Yes		
Heating cable for defrosting				Yes		
Compressor pre-heat				Yes		
Electronic expansion valve				Yes		
ErP approved circulation pump	Manufacturer	Wilo		Grundfos		
	Type	Para 25-130/9-87/IPWM1		UPMXL GEO 25-125 130P PWM		
	ErP classification	≤ 0.21		< 0.23		
Compressor	Manufacturer			Highly		
	Manufacturer			Nidec		
Fan	Quantity	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
	Manufacturer		Kelvion		SWEP	
Plate heat exchanger	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/Ph/Hz	230/1/50	230/1/50	230/1/50	400/3N/50
Refrigerant	Type	kg	R290/0.7	R290/0.9	R290/1.5	
	GWP (global warming potential)	GWP	3			
Dimensions (WxDxH)	Outdoor unit	mm	1,207 × 437 × 895	1,207 × 437 × 995	1,142 × 428 × 1492	
	Indoor unit	mm	380 × 115 × 480			
Net weight	Outdoor unit	kg	123	138	187	
	Indoor unit	kg	9			
Article numbers	Outdoor units		120702	120703	120707	120704
	Indoor unit		120715			

(1) Heating conditions for heat pumps: water temperature in / out 30°C / 35°C, ambient temperature DB 7°C / WB 6°C.

(2) Cooling condition for heat pumps: water temperature in/out 12°C / 7°C, ambient temperature DB 35°C / WB 34°C.

(3) Measured according to standard EN 12102.