DEVELOPED IN SWEDEN

ES Air-to-Water Heat Pumps

ES M R290 Series

8–15 kW with Hydro Box or Tank Unit

Converts energy from the outdoor air to heat and domestic hot water
By utilising energy from outdoor air, you reduce your energy bills and CO_2 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 Hydro 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.

Gas boiler replacer
The 100-liter indoor unit is developed for easy swap-out of existing gas boilers. It is the same size as many gas boilers and can be wall-mounted. 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.

SG Ready · MCS CERTIFIED · KEYMARK certificate · A+++ · 5 years COMPRESSOR WARRANTY · >dB Low noise · R290 · SMARTPHONE CONTROLLED

ES ENERGY SAVE

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The ES range of air-to-water heat pumps have 8, 12 and 15 kW heating capacity. Our indoor units with DHW-tanks come in either 100 or 250-liters where our 100-liter solution has been developed specifically as a gas boiler replacer. For hybrid systems, Hydro Box is a controller without a tank.

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

- 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	3.65/4.40	3.65/4.40
Energy class, average, low temp.			A+++			
Defrost upon demand			Yes			
Heating cable for defrosting			Yes			
DHW tank	Type / volume		SUS316 Steel, DHW storage type / 100-liter or 250-liter			
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			
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)	53	54	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/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, Hydro Box	mm	400 × 260 × 800			
	Indoor unit, 100 l	mm	500 × 500 × 1,100			
	Indoor unit, 250 l	mm	600 × 670 × 1,720			
Net weight	Outdoor unit	kg	123	138	187	
	Indoor unit, Hydro Box	kg	27			
	Indoor unit, 100 l	kg	75			
	Indoor unit, 250 l	kg	127			
Article number, outdoor units			120702	120703	120707	120704
Article number, indoor units	Hydro Box		202184			
	100-liter		202163 • UK: 202182		/	
	250-liter		202028 • UK: 202181			

(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.

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