

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.



















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DEVELOPED

IN SWEDEN

ES Air-to-Water Heat Pumps

ES M R290 Series

8-15 kW with Hydro Box or Tank Unit

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, highsensitivity touchscreen

			ES M8 R290	ES M12 R290	ES M15 R290, 1 Ph	ES M15 R290, 3 P	
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		
		/ volume	SUS316 Steel, DHW storage type / 100-liter or 250-liter				
Compressor pre-heat			Yes				
Electronic expansion valve			Yes				
•	Manufacturer		Wilo Grundfos				
ErP approved circulation pump	Type			/9-87/IPWM1	0		
	ErP classification		≤ 0.21		< 0.23		
Compressor	Manufacturer		Highly				
Compressor	Manufacturer		Nidec				
Fan	Quantity	pcs	1 2)		
	Airflow	m³/h	3.150	3.300	6.3		
	Rated power	W	62	62	62 x 2		
Sound power level	Outdoor unit	dB (A)	57	56	57	60	
Journa power level	Manufacturer dB (vion	SW		
Plate heat exchanger	Water press. drop kF		8 15			23	
	Piping connection Inch		G1"	G1"	G1-1/4"		
Residual current device and	1 iping connection	111011	<u> </u>			1/ 4	
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	GWP	3				
	warming potential)	GWP	-				
Dimensions (WxDxH)	Outdoor unit	mm	1,207 × 437 × 895	1,207 × 437 × 995	1,142 × 42	28 × 1492	
	Indoor unit, Hydro Box	mm	400 × 260 × 800				
	Indoor unit, 100 I	mm	500 × 500 × 1,100				
	Indoor unit, 250 I	mm	600 × 670 × 1,720				
Net weight	Outdoor unit	kg	123 138 187		37		
	Indoor unit, Hydro Box	kg	27				
	Indoor unit, 100 l	kg	75				
	Indoor unit, 250 I	kg	127				
Article number, outdoor units		3	120702	120703	120707	120704	
	Hydro Box		202184				
Article number, indoor units	100-liter		202163 • UK: 202182 /			1	
			202028 • UK: 202181				

