

AIR-TO-WATER HEAT PUMP HEATING SYSTEM



80AW/38AW



Control

- User-friendly controller with large display, intuitive symbols and two simple buttons, allowing the user to select the desired operating parameter values.



Options/accessories

- Piping sets



38AW outdoor units

Features

- Eight sizes with nominal heating capacities from 5 to 11.5 kW and nominal cooling capacities from 4.2 to 5.0 kW.
- The XP Energy System is a complete heating solution incorporating all components and fittings as standard. The system consists of an inverter-driven condensing unit and a hydronic module for space heating and cooling as well as the production of domestic hot water.
- The system meets stringent energy efficiency and low operating cost demands and contributes to a reduction of CO₂ emissions.
- The electrical components, as well as temperature controls and a complete wiring set are included. The XP Energy hydronic module comes complete with all water-side connections, shut-off valves, expansion tanks, water filters, relief valves and safety sensors.
- The XP energy hydronic module combines high comfort levels with significant energy savings.
- Wide range of heat generators and accessories.
- The Carrier controller continuously monitors space temperature conditions, outside temperature and heat load to ensure optimised comfort.
- Heating/cooling of a single zone:
 - Suitable for underfloor heating/cooling with an option for swimming pool heating
 - Variable set-point technology for significant energy savings and optimised
- Heating/cooling of two zones:
 - Suitable for underfloor heating/cooling and/or use with radiators and fan coil units
 - A 50 litre water tank ensures comfort in all zones
 - Option for swimming pool heating
 - Each comfort zone has its own set-point

80AW/38AW

Physical data

System	Heating only				Heating and cooling			
Indoor unit (hydronic module)	80AW1-H	80AW1-H	80AW2-H	80AW2-H	80AW1-X	80AW1-X	80AW2-X 80AWT-X	80AW2-X 80AWT-X
Outdoor unit (heat pump)	38AW 050H7	38AW 065H7	38AW 090H7	38AW 115H7	38AW 050H7	38AW 065H7	38AW 090H7	38AW 115H7
Nominal heating capacity*	kW 5.0	6.5	9.1	11.5	5.0	6.5	9.1	11.5
Minimum heating capacity*	kW 1.5	1.3	3.6	3.5	1.5	1.3	3.6	3.5
Maximum heating capacity*	kW 5.9	7.8	11.1	13.8	5.9	7.8	11.1	13.86
Nominal power input*	kW 1.22	1.59	2.17	2.81	1.22	1.59	2.17	2.81
COP*	kW/kW 4.10	4.10	4.20	4.10	4.10	4.10	4.20	4.10
Energy class (heating)	A	A	A	A	A	A	A	A
Nominal cooling capacity**	kW -	-	-	-	4.2	5.6	7.9	9.0
Minimum cooling capacity**	kW -	-	-	-	1.6	2.0	3.9	4.1
Maximum cooling capacity**	kW -	-	-	-	6.6	7.3	9.5	12.1
Nominal power input**	kW -	-	-	-	1.16	1.53	1.94	2.37
EER**	kW/kW -	-	-	-	3.65	3.65	4.05	3.80
Energy class (cooling)	-	-	-	-	A	A	A	A

* The nominal heating capacity is in accordance with EN 14511, water temperature 35°C/30°C, air temperature 7°C/6°C

** The nominal cooling capacity is in accordance with EN 14511, water temperature 18°C/23°C, air temperature 35°C

Indoor unit (general)	80AW1		80AWT		80AW2	
Number of comfort zones	1		1		2	
Nominal water flow rate	l/s (l/h)	0.24 (860)	0.31 (1118)		0.31 (1118)	
Minimum water flow rate	l/s (l/h)	0.19 (688)	0.25 (894)		0.25 (894)	
Maximum water flow rate	l/s (l/h)	0.29 (1032)	0.37 (1342)		0.37 (1342)	
Sound power level, cooling	dB(A)	27	27		27	
Sound power level, heating	dB(A)	27	27		27	
Dimensions, H x L x D	mm	770 x 580 x 350	770 x 580 x 350		1050 x 660 x 570	
Operating weight	kg	40	43		80	
Power supply	V-ph-Hz	230-1-50	230-1-50		230-1-50	
Recommended main fuse size	A	16	25		25	

Note: The power connection is on the indoor unit. The electric heater element (if used) can be equipped with a separate power supply.

Indoor unit for 38AW 050H7 and 38AW 065H7	80AW100H	80AW102H	80AW104H	80AW100X	80AW102X	80AW104X
Number of comfort zones	1	1	1	1	1	1
Electric heater element	kW 0	1 x 2	2 x 2	0	1 x 2	2 x 2
Heating only	Yes	Yes	Yes	No	No	No
Heating and cooling	No	No	No	Yes	Yes	Yes
Connection of back-up boiler	No	No	No	No	No	No
Power supply	V-ph-Hz 230-1-50	230-1-50	230-1-50	230-1-50	230-1-50	230-1-50

Indoor unit for 38AW 090H7 and 38AW 115H7	80AWT00X	80AWT04X	280AW200H	80AW204H	80AW206H	80AW200X	80AW204X	80AW206X
Number of comfort zones	1	1	2	2	2	2	2	2
Electric heater element	kW 0	2 x 2	0	2 x 2	2 x 3	0	2 x 2	2 x 3
Heating only	No	No	Yes	Yes	Yes	No	No	No
Heating and cooling	Yes	Yes	No	No	No	Yes	Yes	Yes
Connection of back-up boiler	No	No	Yes	No	No	Yes	No	No
Power supply	V-ph-Hz 230-1-50	230-1-50	230-1-50	230-1-50	230-1-50	230-1-50	230-1-50	230-1-50

Outdoor unit	38AW 050H7	38AW 065H7	38AW 090H7	38AW 115H7
Compressor type	DC twin-rotary	DC twin-rotary	DC twin-rotary	DC twin-rotary
Inverter type	PAM + PWM	PAM + PWM	PAM + PWM	PAM + PWM
Refrigerant	R-410A	R-410A	R-410A	R-410A
Maximum pipe length	m 50	30	70	70
Maximum height difference	m 30	30	30	30
Pre-charged length	m 20	20	20	30
Air flow	l/s (m ³ /h) 728 (2620)	783 (2820)	1658 (5970)	1767 (6360)
Sound power level, heating	dB(A) 64	68	69	70
Sound pressure level, heating***	dB(A) 44	48	49	50
Sound power level, cooling	dB(A) 64	65	68	70
Sound pressure level, cooling***	dB(A) 44	45	48	50
Dimensions, H x L x D	mm 690 x 900 x 320	820 x 900 x 320	1360 x 900 x 320	1360 x 900 x 320
Operating weight	kg 49	51	88	88
Pipe connections	in 1/4 - 1/2	3/8 - 5/8	3/8 - 5/8	3/8 - 5/8
Power supply	V-ph-Hz 230-1-50	230-1-50	230-1-50	230-1-50

*** Sound pressure levels are given for a distance of 4 m from the unit.

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