

PAC+

AIR-TO-WATER PACKAGED HEAT PUMPS

3 Models
From 8,1 kW to 14,1 kW

OUTDOOR UNIT PAC+ 08-10-12



Programmable room thermostat



Regulation kit



PRODUCT ADVANTAGES

- "Ready for use", monobloc heat pumps with integrated hydro kit designed to fit with new heating installation.
- Corrosion-proof casing coated with oven-baked epoxy paint.
- Compatible with heating floors, radiators or water terminal units.
- Hydro kit complete with circulating pump, flow switch, expansion tank, automatic bleed valve, pressure gauge, safety valve, water filling/drain valve and extra electric heating resistances.
- Cooling and heating modes : however, units are optimized for heating operation.
- Leaving water temperature up to +55 °C in heating mode.
- Operation with outdoor temperature down to -15 °C with standard Scroll compressors and to -20 °C with optional high performance ones.
- Coaxial heat exchanger to reduce clogging.
- Outdoor coil with hydrophilic coated fins to ease condensation water runoff during defrost cycles.
- Reversible: Heater mode and cooling mode.
- Full of safety functions with the aid of electrical, refrigerant and water components : protection fuses or circuit breaker, soft starter for single-phase units, phase controller for 3-phase units, power disconnect switch, HP/LP pressostats, water flow switch and 4 temperature sensors (return water, leaving water, outdoor coil and outdoor air).
- Electronic controller ensures comfort and optimum COP with the use of room thermostat and return water temperature control system in relation to outdoor temperature (law of water).
- Several options and accessories : high performance Scroll compressors, compressor soundproofing, copper/copper outdoor coil, water shut-off valves, set of hoses, insulated buffer tank, water filter.
- Designed to power heated flooring, radiators or water terminal units.
- Built-in 6 kW electrical supply point.
- Safety power-off switch.
- Built-in 5 l expansion tank.
- Supplied with room thermostat.

Accessories

Size **PAC+ 08**

PAC+ 10

PAC+ 12

Stop valves with pressure connectors 7ACFH0423 €

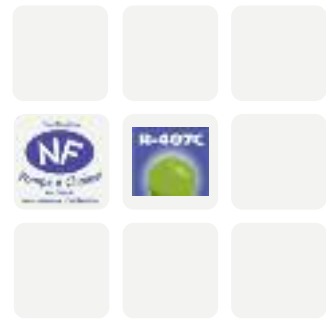
Flexible kit 1" MF log. 1 m 7ACFH0422 €

Water filter 7ACFH0278 €

Room Thermostat 7ACEL1406 €

Programming key kit for underfloor heating 7ACEL1399 €

Programming key kit for radiator 7ACEL1400 €



PAC+

Outdoor units			PAC+ 08	PAC+ 10	PAC+ 12
Water system at 30/35°C					
Heating	Capacity at outside temp. of 7°C	kW	8.1	11.2	14.1
	Power input	kW	2.3	3.1	3.9
	COP		3.53	3.60	3.63
	Capacity at outside temp. of 2°C*	kW	6.2	8.1	10.0
	Power input at outside temp. of 2°C	kW	2.3	3.0	3.6
	Capacity at outside temp. of -7°C*	kW	5.1	7.2	8.7
	Power input at outside temp. of -7°C	kW	2.3	3.1	3.7
	Nominal water flow	m ³ /h	1.43	1.97	2.52
	Available hydraulic pressure (HS)	kPa	41	26	59
	Outdoor temperature operating limits	°C	-15°C	-15°C	-15°C
Min./max water leaving temperature	°C	25°C / 55°C	25°C / 55°C	25°C / 55°C	
Cooling	Capacity at air temp. 35°C, water temp. 18/23°C	kW	7.2	8.9	9.8
	Power input	kW	2.5	3.7	4.5
	EER		2.84	2.42	2.21
	Outdoor temperature operating limits	°C	20°C / 45°C	20°C / 45°C	20°C / 45°C
	Min./max water leaving temperature	°C	7°C / 18°C	7°C / 18°C	7°C / 18°C
Water system at 40/45°C					
Heating	Capacity at outside temp. of 7°C	kW	7.7	10.7	13.6
	Power input	kW	2.8	3.8	4.6
	Heating capacity at outside temp. of -7°C*	kW	5.1	6.9	9.1
	Power input at outside temp. of -7°C	kW	2.8	3.7	4.5
	Nominal water flow	m ³ /h	1.36	1.90	2.43
	Available hydraulic pressure (HS)	kPa	45	29	60
	Outdoor temperature operating limits	°C	-15°C	-15°C	-15°C
	Min./max water leaving temperature	°C	25°C / 55°C	25°C / 55°C	25°C / 55°C
Cooling	Capacity at air temp. 35°C, water temp. 7/12°C	kW	5.6	7.7	7.1
	Power input	kW	2.5	3.6	4.2
	Sound pressure level at 5 m in open space**	dB(A)	39	39	39
	Sound power level**	dB(A)	64	64	64
	Compressor type		Scroll	Scroll	Scroll
	Weight	kg	180	183	188
	Dimension (WxDxH)	mm	1236x400x1308	1236x400x1308	1236x400x1308
	Electrical heater capacity	kW	6 (2+4)	6 (2+4)	6 (2+4)
	Heat exchanger		Coaxial	Coaxial	Coaxial
	Pipe line	Water inlet	inches	1" female	1" female
Water outlet		inches	1" female	1" female	1" female
Expansion tank		litres	5	5	5
Power supply 1-230V-50Hz	Power cable	mm ²	3x10	3x16	3x16
	Main fuse	A	63	63	63
Power supply 3N-400V-50Hz	Power cable	mm ²	-	5x4	5x4
	Main fuse	A	-	25	32

* Value includes defrosting.
** Sound level of units equipped with sound insulation on compressor (supplied as standard). Add 3 dB(A) is this insulation if removed.

Accessories	Size	PAC+ 08	PAC+ 10	PAC+ 12
Hydraulic connexion kit with 3 ways valve	7ACFH0490	€		
Hydraulic connexion kit without 3 ways valve	7ACFH0491	€		
3 ways zone valve only	7ACFH0543	€		
Regulation kit with ambient thermostat	7ACFH0492	€		
Regulation kit with wireless thermostat	7ACEL1429	€		