

AIR-TO-WATER HEAT PUMPS



AQUASNAP
Reversible

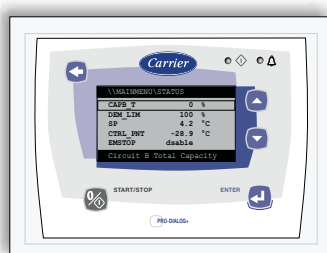
Heating 30RQ

Options/accessories

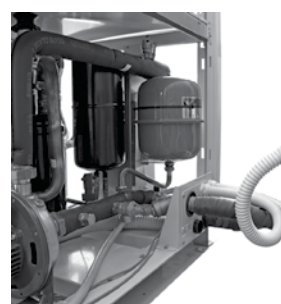
- Unit without hydronic module (option)
- Integrated water fill system (option)
- Power supply without neutral (option)
- JBus, BacNet and LonTalk gateways (accessory)
- Remote interface (accessory)
- Integrated water fill system (accessory)

Features

- Four sizes with nominal cooling capacities from 16 to 33 kW and nominal heating capacities from 17 to 33 kW.
- Aquasnap heat pumps for commercial applications such as the air conditioning of offices and hotels.
- Exceptionally high energy efficiency at part load - Eurovent energy efficiency class A and B (in accordance with EN14511-3 : 2013) in cooling and heating mode.
- Integrates the latest technological innovations: ozone-friendly refrigerant R-410A, scroll compressors, low-noise fans and auto-adaptive microprocessor control.
- Units include a hydronic module integrated into the chassis, limiting installation to connection of power supply, water supply and return piping/air distribution ducting.
- Low-noise scroll compressors with low vibration level.
- Vertical air heat exchanger coils with protection grilles on anti-vibration mountings.
- Low-noise fans, now even quieter. Rigid fan installation for reduced start-up noise.
- The unit has a small footprint and is enclosed by easily removable panels.
- Simplified electrical connections.
- Systematic operation test before shipment and quick-test function for step-by-step verification of the instruments, electrical components and motors.
- Maintenance-free scroll compressors and fast diagnosis of possible incidents and their history via the Pro-Dialog+ control reduce maintenance costs.
- Leak-tight refrigerant circuit.
- Corrosion resistance tests, accelerated ageing test on compressor piping and fan supports and transport simulation test on a vibrating table in the laboratory.



Pro-Dialog+ operator interface



Hydronic module (sizes 026-033 shown)

Physical data



30RQ		017	021	026	033
Air conditioning application as per EN14511-3 : 2013					
Condition 1/condition 2					
Nominal cooling capacity	kW	16.0/22.2	20.2/27.4	26.7/34.3	32.7/43.6
EER	kW/kW	3.17/4.02	3.11/3.76	3.01/3.62	3.21/3.96
Eurovent class, cooling (condition 1)		A	A	B	A
ESEER (condition 1)	kW/kW	3.61	3.44	3.36	3.58
Heating application as per EN14511-3:2013					
Condition 1/condition 2					
Nominal heating capacity	kW	17.0/17.6	21.7/22.2	29.9/31.0	33.3/34.7
COP	kW/kW	3.18/3.99	3.28/3.98	3.20/3.98	3.19/3.98
Eurovent class, heating (condition 1)		B	A	A	B
Operating weight*					
Standard unit with/without hydronic module	kg	206/191	223/208	280/262	295/277
Refrigerant*					
R-410A					
Compressor					
One hermetic scroll compressor					
Control					
Pro-Dialog+					
Fans					
Two twin-speed axial fans, 3 blades		One twin-speed axial fan, 7 blades			
Air flow	l/s	2217	1978	3530	3530
Water heat exchanger					
Plate heat exchanger					
Air heat exchanger					
Copper tubes and aluminium fins					
Unit with hydronic module					
One single-speed pump, screen filter, expansion tank, flow switch, pressure gauge, automatic air purge valve, safety valve					
Power input	kW	0.54	0.59	0.99	1.10
Nominal operating current	A	1.30	1.40	2.40	2.60
Dimensions					
Length x depth x height	mm	1136 x 584 x 1579	1136 x 584 x 1579	1002 x 824 x 1790	1002 x 824 x 1790

NOTE: For the conditions please refer to page 73.

* Weight shown is a guideline only. To find out the unit refrigerant charge, please refer to the unit nameplate.

Electrical data

30RQ		017	021	026	033
Power circuit					
Nominal power supply	V-ph-Hz	400-3-50 ± 10%			
Control circuit supply		24 V via internal transformer			
Maximum start-up current (Un)*	A	75	95	118	118
Maximum operating power input**	kW	7.8	9.1	11	13.8
Nominal unit operating current draw***	A	8	12	16	17

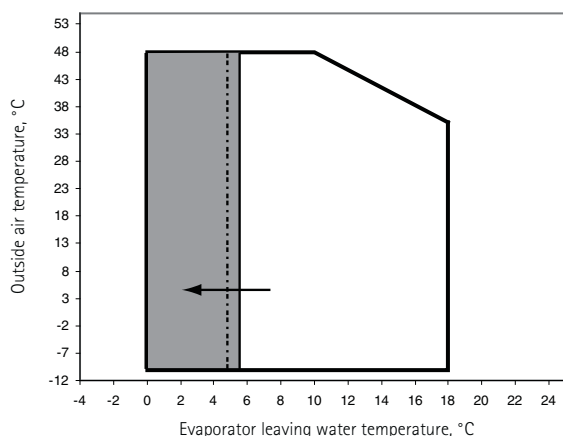
* Maximum instantaneous start-up current (locked rotor current of the compressor).

** Power input, compressors and fans, at the unit operating limits (saturated suction temperature 10°C, saturated condensing temperature 65°C) and nominal voltage of 400 V (data given on the unit nameplate).

*** Standardised Eurovent conditions: water heat exchanger entering/leaving water temperature 12°C/7°C, outside air temperature 35°C.

Operating range

Cooling mode



Operating range with anti-freeze solution and Pro-Dialog configuration.

Heating mode

