

DUCTABLE AIR-TO-WATER HEAT PUMPS



Heating 30RQY

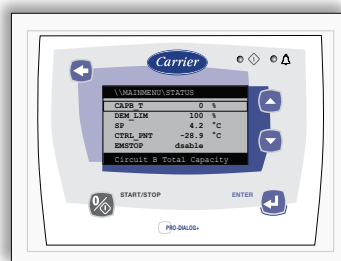
AQUASNAP
Reversible

Options/accessories

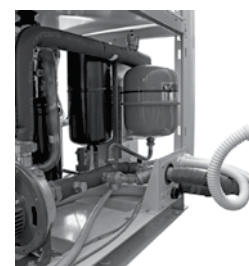
- Hydronic module (option)
- Integrated water fill system (option/ accessory)
- Inlet duct frame (option)
- Inlet filter frame (option)
- JBus, BacNet and LonTalk gateways (accessory)
- Remote interface (accessory)
- Condensate drain pan (accessory)

Features

- Four sizes with nominal cooling capacities from 15 to 32 kW and nominal heating capacities from 17 to 31 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 cooling mode and C in heating mode (in accordance with EN14511-3:2011).
- 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 condenser coils with protection grilles on anti-vibration mountings.
- Low-noise fans, now even quieter. Rigid fan installation for reduced start-up noise.
- Easy duct connection and fans with 80 Pa available pressure.
- 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

Physical data

30RQY		017	021	026	033
Air conditioning application as per EN14511-3 : 2011					
Condition 1/condition 2					
Nominal cooling capacity	kW	14.9/18.4	19.0/23.9	27.1/35.6	32.3/41.3
EER	kW/kW	2.63/2.93	2.63/3.01	2.90/3.54	3.05/3.63
Eurovent class, cooling (condition 1)		B	B	A	A
ESEER (condition 1)	kW/kW	2.91	2.88	3.15	3.30
Air conditioning application**					
Condition 1/condition 2					
Nominal cooling capacity	kW	15.0/18.6	19.2/24.1	27.3/36.1	32.6/41.9
EER	kW/kW	2.72/3.06	2.72/3.15	3.03/3.77	3.19/3.87
ESEER (condition 1)	kW/kW	2.78	2.78	2.97	3.16
Heating application as per EN14511-3:2011*					
Condition 1/condition 2					
Nominal heating capacity	kW	17.0/17.5	20.5/20.8	28.8/29.9	31.4/32.3
COP	kW/kW	2.77/3.38	2.77/3.29	2.76/3.36	2.76/3.34
Eurovent class, heating (condition 1)		C	C	C	C
Heating application**					
Condition 1/condition 2					
Nominal heating capacity	kW	16.9/17.3	20.3/20.6	28.5/29.6	31.1/32.0
COP	kW/kW	2.81/3.45	2.81/3.36	2.81/3.44	2.81/3.42
Operating weight*					
Standard unit (with hydronic module)	kg	226	243	280	295
Standard unit (without hydronic module)	kg	211	228	262	277
Refrigerant		R-410A			
Compressor		One scroll compressor			
Control		Pro-Dialog+			
Fans		Two twin-speed centrifugal fans, 5 backward-curved blades		One twin-speed axial fan, 7 blades	
Air flow	l/s	1640	1640	3472	3472
Evaporator		One plate heat exchanger			
Condenser		Copper tubes and aluminium fins			
Unit with hydronic module		One single-speed pump, screen filter, expansion tank, flow switch, water circuit drain valve, pressure gauge, automatic air purge valve, safety valve			
Dimensions					
Length x depth x height	mm	1135 x 584 x 1608	1135 x 584 x 1608	1002 x 824 x 1829	1002 x 824 x 1829

NOTE: For the conditions please refer to page 69.

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

Electrical data

30RQY		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	8.0	9.3	11.2	14.0
Nominal unit operating current draw***	A	13	16	20	24

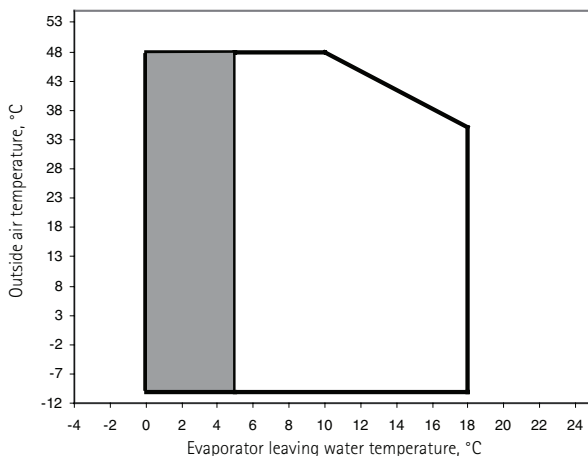
* Maximum instantaneous start-up current (locked rotor current of the compressor).

** 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

