

DUCTABLE AIR-COOLED LIQUID CHILLERS



Air conditioning

AQUASNAP

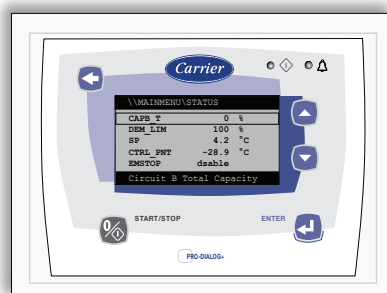
30RBY

Options/accessories

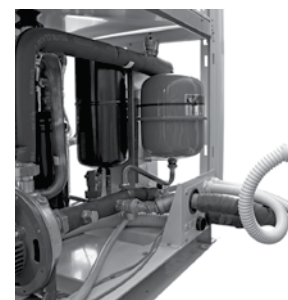
- Hydronic module (option)
- Integrated water fill system (option/ accessory)
- Inlet duct frame (option)
- Inlet filter frame (option)
- JBus, BacNet and LonTalk gateways (accessory)
- Remote interface (accessory)
- Condensate drain pan (accessory)

Features

- Four sizes with nominal cooling capacities from 16 to 32 kW.
- Aquasnap liquid chillers 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 EN14511-3:2011).
- Latest technological innovations integrated: ozone-friendly refrigerant R-410A, scroll compressors, low-noise fans and auto-adaptive microprocessor control.
- The units are equipped with a hydronic module integrated into the unit chassis, limiting the installation to straight-forward operations like connection of the power supply, the water supply and return piping and the 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



30RBY		017	021	026	033
Air conditioning application as per EN14511-3 : 2011					
Condition 1					
Nominal cooling capacity	kW	15.7	20.3	27.0	32.3
EER	kW/kW	2.65	2.60	2.88	3.05
Eurovent class		B	B	A	A
ESEER part-load performance	kW/kW	2.93	2.86	3.15	3.32
Condition 2					
Nominal cooling capacity	kW	19.9	24.8	36.1	42.3
EER	kW/kW	3.07	2.85	3.49	3.67
Air conditioning application (1)					
Condition 1					
Nominal cooling capacity	kW	15.8	20.5	27.3	32.7
EER	kW/kW	2.74	2.71	3.03	3.20
ESEER part-load performance	kW/kW	2.80	2.81	2.98	3.17
Condition 2					
Nominal cooling capacity	kW	20.1	25.1	36.7	42.9
EER	kW/kW	3.21	2.99	3.76	3.94
Operating weight*					
Standard unit (with hydronic module)	kg	209	228	255	280
Standard unit (without hydronic module)	kg	193	213	237	262
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					
Power input*	kW	0.54	0.59	0.99	1.20
Nominal operating current**	A	1.30	1.40	2.40	2.60
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 31.

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

Electrical data

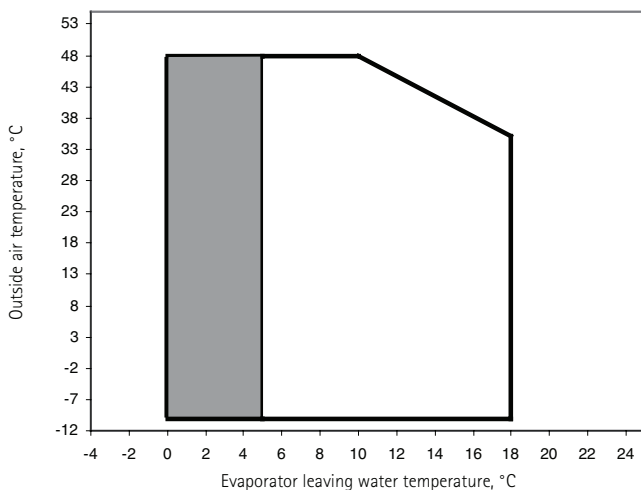
30RBY		017	021	026	033
Power circuit					
Nominal power supply	V-ph-Hz	400-3-50 ± 10%			
Control circuit supply					
24 V via internal transformer					
Maximum start-up current (Un)*	A	75	95	118	118
Maximum operating power input**	kW	8.0	9.3	11.2	14.0
Maximum operating current draw***	A	13	16	20	24

* 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).

*** Maximum unit operating current at maximum unit power input and 400 V (values given on the unit nameplate).

Operating range



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