

30AW 006-012

REVERSIBLE AIR-TO-WATER HEAT PUMPS/CHILLERS



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Physical data

30AW		006	008	012
Data at Eurovent LCP/A/CHF conditions*				
Nominal heating capacity	kW	5.8	7.2	11.9
Power input	kW	1.37	1.82	3.01
COP	kW/kW	4.24	3.95	3.94
Nominal cooling capacity	kW	7.0	7.8	13.5
Power input	kW	1.92	1.98	3.68
EER	kW/kW	3.66	3.95	3.67
Data at Eurovent LCP/A/AC conditions**				
Nominal heating capacity	kW	5.8	7.4	12.9
Power input	kW	1.90	2.32	4.26
COP	kW/kW	3.06	3.18	3.03
Nominal cooling capacity	kW	4.7	5.8	10.2
Power input	kW	1.60	1.97	3.46
EER	kW/kW	2.95	2.95	2.96
ESEER part-load performance	kW/kW	4.6	4.4	4.3
Operating weight, unit with/without hydronic module	kg	61/58	71/68	105/99
Refrigerant		R-410A	R-410A	R-410A
Compressor		DC twin-rotary with PMV expansion valve		
Fans		Propeller fans		
Quantity/diameter	mm	1/495	1/495	2/495

* Standard Eurovent LCP/A/CHF conditions in cooling mode: water heat exchanger entering/leaving water temp. 23°C/18°C, outside air temp. 35°C, water heat exchanger fouling factor 0.18 x 10⁻⁴ (m² K)/W. Standard Eurovent LCP/A/CHF conditions in heating mode: water heat exchanger entering/leaving water temp. 30°C/35°C, outside air temp. 7°C db/6°C wb, water heat exchanger fouling factor 0.18 x 10⁻⁴ (m² K)/W. Performances measured in accordance with EN 14511.

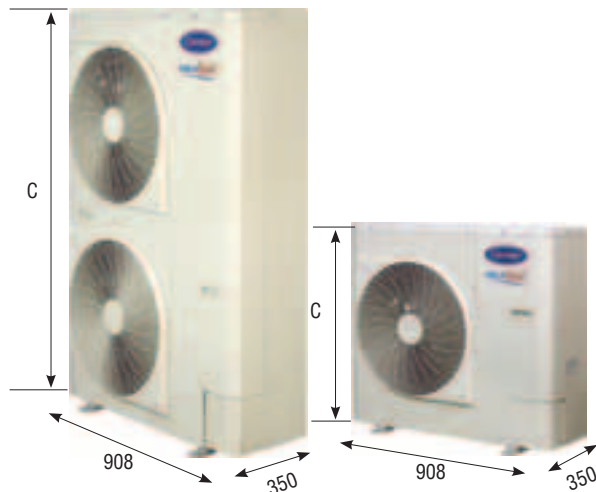
** Standard Eurovent LCP/A/AC conditions in cooling mode: water heat exchanger entering/leaving water temp. 12°C/7°C, outside air temp. 35°C, water heat exchanger fouling factor 0.18 x 10⁻⁴ (m² K)/W. Standard Eurovent LCP/A/AC conditions in heating mode: water heat exchanger entering/leaving water temp. 40°C/45°C, outside air temp. 7°C db/6°C wb, water heat exchanger fouling factor 0.18 x 10⁻⁴ (m² K)/W. Performances measured in accordance with EN 14511.

Electrical data

30AW		006	008	012
Power supply	V-ph-Hz	230-1-50	230-1-50	230-1-50
Voltage range	V	198-264	198-264	198-264
Full load current	A	11	14	22.8
Fuse rating	A	15	15	25
Main power cable section	mm ²	2.5	2.5	2.5

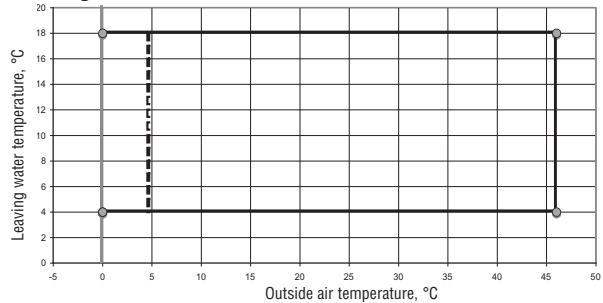
Dimensions, mm

Height C	mm	821	821	1363
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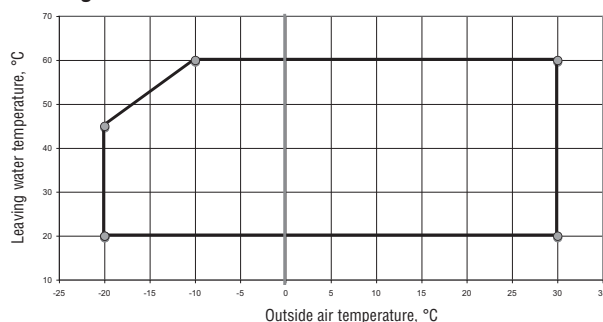


Operating range

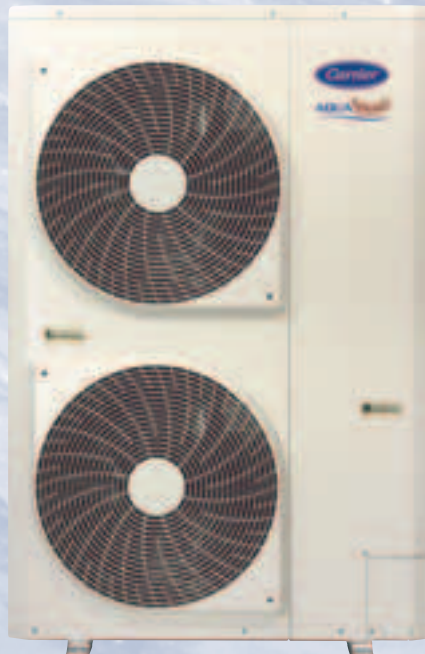
Cooling mode



Heating mode



INVERTER
Technology



AQUASNAP PLUS
Reversible

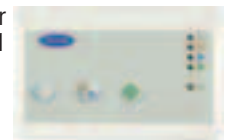
FEATURES

- Two versions with or without hydronic module in three sizes with nominal cooling capacities from 5 to 14 kW and nominal heating capacities from 6 to 13 kW.
- AquaSnap PLUS air-to-water heat pumps with built-in inverter technology were designed for residential and light commercial applications. They offer excellent energy efficiency values, exceptionally quiet operation and meet the most stringent operating temperature demands.
- Units integrate the latest technological innovations: ozone-friendly refrigerant R410A, DC inverter twin-rotary compressors, low-noise fan and microprocessor control.
- Specifically designed for ease-of-installation and service and underlining Carrier's reputation for highest product quality and reliability.
- AquaSnap PLUS heat pump systems can be used with a wide choice of Carrier terminal fan coil units - cassettes, low, medium and high-pressure satellite units, console units, underceiling units and high-wall units.
- Wide operating range in both heating and cooling mode offering high performance in a wide temperature range.
- DC inverter twin-rotary compressors with Pulse Amplitude Modulation (PAM) and Pulse Width Modulation (PWM) for enhanced reliability, low energy consumption and smooth vibration-free operation under all operating conditions.
- Variable-speed fans with an innovative patented fan blade shape ensure improved air distribution at exceptionally low noise levels.
- Output to link and integrate the unit with existing heat sources to offer a bivalent approach, increased savings and optimum comfort in all weather conditions.
- Leaving water temperature up to 60°C for radiator and domestic hot water applications, making hot water readily available.
- Advanced circuit design and component selection has resulted in a compact unit with an exceptionally small footprint that can be easily transported even through narrow doors.
- Comprehensive quality and endurance tests
- Enhanced control possibilities.



Comfort™ Series programmable thermostat 33AW-CS1

Remote controller 33AW-RC1



30AW controllers

OPTIONS/ACCESSORIES

- Unit without hydronic module (option)
- Unit with hydronic module (option)
- Unit with variable-speed pump (option)*
- Nordic version (option)*
- Additional outdoor sensor (accessory)
- Remote controller 33AW-RC1 (accessory)
- Programmable thermostat 33AW-CS1 (accessory)

* Available later in 2010