

REVERSIBLE AIR-TO-WATER HEAT PUMPS



Heating 30AWH

AQUASNAP^{PLUS}
Reversible

Options/accessories

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

* Available in 2013

30AW controllers



Comfort™ Series programmable thermostat
33AW-CS1



Remote controller
33AW-RC1

Features

- Two versions with or without hydronic module in five sizes with nominal cooling capacities from 3 to 13 kW and nominal heating capacities from 4 to 14 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 R-410A, DC inverter twin-rotary compressors, low-noise fan and micro-processor 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 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.

INVERTER
Technology

Physical data

30AW		004	006	008	012	015
Air conditioning application as per EN14511-3 : 2011						
Nominal cooling capacity	kW	3.3	4.7	5.8	10.2	13.0
Nominal heating capacity	kW	4.0	6.0	7.0	13.0	14.0
EER (cooling)/COP (heating)	kW/kW	3.02/3.30	3.00/3.10	2.98/3.20	2.96/3.00	2.95/3.2
ESEER part-load performance, cooling	kW/kW	4.36	4.51	4.15	4.22	4.31
Air conditioning application (1)						
Nominal cooling capacity	kW	3.3	4.7	5.8	10.2	13.0
Nominal heating capacity	kW	3.9	5.8	7.4	12.9	14.0
EER (cooling)/COP (heating)	kW/kW	2.91/3.2	2.95/3.06	2.95/3.18	2.96/3.03	2.91/3.21
ESEER part-load performance, cooling	kW/kW	4.5	4.6	4.4	4.3	4.4
Cooling/heating floor application as per EN14511-3 : 2011						
Nominal cooling capacity	kW	4.93	7.04	7.84	13.54	16.04
Nominal heating capacity	kW	4.0	6.0	7.0	12.0	14.0
EER (cooling)/COP (heating)	kW/kW	4.2/4.2	3.7/4.3	3.99/4.0	3.66/4.0	3.85/4.1
Cooling/heating floor application (1)						
Nominal cooling capacity	kW	4.9	7.0	7.8	13.5	16.0
Nominal heating capacity	kW	4.1	5.8	7.2	11.9	14.5
EER (cooling)/COP (heating)	kW/kW	4.05/4.05	3.66/4.24	3.95/3.95	3.67/3.94	3.81/4.06
Operating weight, unit with/without hydronic module	kg	59/56	61/58	71/68	105/99	130/124
Refrigerant		R-410	R-410A	R-410A	R-410A	R-410A
Compressor		DC twin-rotary with PMV expansion valve				
Fans		Propeller fans				
Quantity/diameter	mm	1/495	1/495	1/495	2/495	2/495
Dimensions						
Length x depth x height	mm	908 x 350 x 821	908 x 350 x 821	908 x 350 x 821	908 x 350 x 1363	908 x 350 x 1363

NOTE: For the conditions please refer to page 69.

Electrical data

30AW		004	006	008	012	015
Power supply	V-ph-Hz	230-1-50	230-1-50	230-1-50	230-1-50	230-1-50
Voltage range	V	198-264	198-264	198-264	198-264	198-264
Full load current	A	7.2	11	14	23	20
Fuse rating	A	10	16	16	25	25
Main power cable section	mm ²	2.5	2.5	2.5	2.5	2.5

Operating range

