




United Technologies  
turn to the experts 

**AQUA5**<sup>PLUS</sup>**SNAP**<sup>®</sup>  
Reversible

# Heat Pumps/Chillers

## 30AW



**Monobloc Inverter**  
COMPACT, RELIABLE AND EFFICIENT

## Compact, Reliable and Efficient

The AquaSnap PLUS heat pump and chiller has been designed and tested to address the specific needs of residential and light commercial buildings. Guaranteed to work down to -20°C outdoor temperature, the AquaSnap will provide warmth and comfort even on the coldest days.

Carrier engineers incorporated reliable quality components in its compact chassis including one of the most advanced electronic inverter controls in the industry.

The 30AW boasts impressive energy efficiency and can be easily matched with the wide range of Carrier terminal fan coil units.

### High Efficiency

The AquaSnap PLUS offers an exceptionally high energy efficiency ratio in both heating (COP) and cooling (EER). This translates into substantial savings for the user. The seasonal efficiency (at part load) is one of the highest in the industry.

**COP > 3.90**

**EER > 3.60**

**SEER > 4.30**

## More Than A Heat Pump

AquaSnap PLUS heat pumps offer the ideal solution for a wide range of application; in a new building, a refurbishment project or integrated with existing equipment.

### Dual-Energy Applications

The AquaSnap PLUS can be integrated with existing heat sources. Simply define the parameters for switching to an alternative heat source and enjoy continuous operation with increased savings and optimum comfort in all weather conditions.

### COLD/HOT WATER PRODUCTION

- Heat pump/chiller

### INTEGRATION

- Hydronic module
- Boiler
- Dehumidifier

### DISTRIBUTION

- Under-floor systems
- Radiators
- Fan Coils

### CUSTOMISATION

- Solar Panels
- Swimming pool heaters
- Domestic hot water production





## Comfort

The hybrid DC inverter technology modulates the AquaSnap compressor speed to match the load to give stable and controlled temperature without fluctuations. Heating on cold days with outside temperature down to -20°C and energy efficient cooling during the summer.

## Low Sound Levels

In addition to the use of the twin-rotary compressor, particular attention was given to noise elimination or reduction in all the moving parts. This led to a new propeller fan shape, dual insulation for the compressor and a new damper for the vibrating components.

## Domestic Hot Water

The leaving water temperature of up to 60°C is ideal for hot water for domestic use.

## User Interfaces



### 33AW-CS1 Programmable Thermostat

The Comfort™ series user interface has a large display to show all system settings and operating parameters plus extended features like schedule timer, silent mode and pre-set operating programs. Auto diagnosis and automatic configuration programs guide the technicians during commissioning and servicing.

### Touch 'N' Go



This unique feature on the remote control is a revolutionary simple programming option - literally, touch and go to immediately get the desired comfort settings from the system (Home, Away, Sleep).

## Installation Made Easy

### Handles

For easy transportation

### Reduced Footprint

### Minimum Operating Weight

Easy access to all internal components - simply remove three screws to open the front panel and gain access to all main components for regular checks and maintenance of refrigerant pipes, control box, electrical connections, compressor hydronic kit and other key internal components. Water and drain connections are easily accessible from the rear of the unit.



## Warranty

The Carrier AquaSnap comes with 1 year warranty for Commercial applications and 5 years warranty for Residential applications.

# Technical Specifications

Model		30AWH004HD	30AWH006HD	30AWH008HD	30AWH012HD	30AWH015HD	30AWH015HD9
Phase		SINGLE PHASE					THREE PHASE
<b>Data at Eurovent LCP/A/CHF Conditions*</b>							
Nominal Heating Capacity	kW	4.1	5.8	7.2	11.9	14.5	15.0
Power Input	kW	0.98	1.35	1.80	3.01	3.54	3.57
COP	kW	4.15	4.28	3.97	3.95	4.09	4.20
Eurovent Class, Heating		A		B		A	A
Nominal Cooling Capacity	kW	4.9	7.0	7.8	13.5	16.0	16.0
Power Input	kW	1.17	1.90	1.96	3.68	4.17	4.20
EER	kW	4.20	3.70	3.99	3.66	3.85	3.81
Eurovent Class, Cooling		A	B	A	B	A	
<b>Data at Eurovent LCP/A/AC Conditions**</b>							
Nominal Heating Capacity	kW	3.9	5.8	7.4	12.9	14.0	14.5
Power Input	kW	1.19	1.89	2.31	4.26	4.32	4.39
COP	kW	3.26	3.05	3.19	3.03	3.23	3.30
Eurovent Class, Heating		A	B		A		
Nominal Cooling Capacity	kW	3.3	4.7	5.8	10.2	13.0	13.0
Power Input	kW	1.10	1.58	1.96	3.46	4.42	4.47
EER	kW	3.02	3.00	2.98	2.96	2.95	2.91
ESEER Part-load Performance	kW	4.4	4.5	4.2	4.2	4.3	4.3
Eurovent Class, Cooling		B					
<b>Data at ECOLABEL LCP/A/CHF Conditions</b>							
Nominal Heating Capacity ***	kW	3.5	3.9	3.4	7.3	10.2	-
Power Input	kW	1.13	1.23	1.31	2.90	3.29	-
COP	kW	3.10			-		
<b>Data at ECOLABEL LCP/A/AC Conditions</b>							
Nominal Heating Capacity ****	kW	3.4	3.7	2.8	7.7	10.2	-
Power Input	kW	1.31	1.42	1.48	3.42	3.92	-
COP	kW	2.60			-		
<b>Operating Weight</b>							
Unit without Hydronic Module	kg	54	58	66	101	109	113
Unit with Hydronic Module	kg	57	61	69	104	112	116
<b>Operating Limits</b>							
Outside Temp. (Cool/Heat)	°C	0°C (30AWH 004 + 006 : 5°C) to 46°C / -20°C to 30°C					
Leaving Water Temp. (Cool/Heat)	°C	4°C to 18°C / 20°C to 60°C					
<b>Hydronic Circuit</b>							
Net Water Volume	l	0.8					
Expansion Tank Volume	l	2			3		
Max. Water-side Operating Pressure	kPa	300					
Water Pressure Drop, X Version (CHF)	kPa	16.0	9.5	14.5	26.0	33.0	
Avail. Static Pressure, H Version (AC)	kPa	47	43	40	45	30	
Water Connections, inlet/outlet (MPT Gas)	in	1					
<b>Sound Levels</b>							
Sound Power Level, Heating‡	dB(A)	62		64	67	68	
Sound Power Level, Cooling††	dB(A)	64		65	68	69	
Sound Pressure Level, Heating‡	dB(A)	42		44	47	48	
Sound Pressure Level, Cooling††	dB(A)	44		45	48	49	

The water heat exchanger fouling factor is 0.18 x 10<sup>-4</sup> (m<sup>3</sup>K)/W for all conditions.

- \* 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.
- 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. Performances measured in accordance with EN14511.
- \*\* 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.
- 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. Performances measured in accordance with EN14511.
- \*\*\* Ecolabel LCP/A/CHF conditions in heating mode: water heat exchanger entering/leaving water temp. 30°C/35°C, outside air temp. 2°C db/1°C wb. Performances are in accordance with EN14511.
- \*\*\*\* Ecolabel LCP/A/AC conditions in heating mode: water heat exchanger entering/leaving water temp. 40°C/45°C, outside air temp. 2°C db/1°C wb. Performances are in accordance with EN14511.
- † Conditions in heating mode: entering/leaving water temperature 55°C/a, outside air temperature 7°C db/6°C wb. Performances are in accordance with EN14511.
- ‡ Based on the following conditions: entering/leaving water temp. 30°C/35°C, outside air temperature 7°C.
- †† Based on the following conditions: entering/leaving water temp. 12°C/7°C, outside air temperature 35°C.

Note: The sound pressure level is measure in a hemispheric field at 4m distance from the unit.

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Notice: AHI Carrier is committed to continuously improving its products, to ensure the highest quality and reliability standards, and to meet local regulations and market requirements.

All features and specifications subject to change without prior notice.

Note: All images provided in this catalogue are used for illustration purposes only.

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