



AquaSnap® 30AWH-P
For residential and light commercial applications

MONOBLOC AIR-TO-WATER HEAT PUMP

WITH R290 REFRIGERANT



MONOBLOC AIR-TO-WATER HEAT PUMP - R290 - 30AWH-P

AquaSnap 30AWH-P

THE NEW 30AWH-P MONOBLOC AIR-TO-WATER HEAT PUMPS WITH R290 NATURAL REFRIGERANT RESULT FROM A SUCCESSFUL COMBINATION OF INNOVATION AND ENVIRONMENTAL STEWARDSHIP FOR A HIGH LEVEL OF COMFORT ALL YEAR ROUND.

Designed for heating and cooling applications, these heat pumps are suitable for both new housing and renovations, for residential and light commercial applications.

Delivering high performance, the 30AWH-P range is compatible with low to medium temperature emitters (underfloor heating, fan coil units, hydronic cassettes, radiators, mixed installations, etc.), and with high temperature emitters for renovation applications (boiler replacements).

The monobloc 30AWH-P heat pump is designed for outdoor installation in an open area. Each unit is produced and tested at our Carrier plants located in Europe and delivered ready for operation.



AQUASNAP®



**ONE RANGE,
MANY APPLICATIONS**



Individual
Housing



Collective
Housing



Light
Commercial

MONOBLOC AIR-TO-WATER HEAT PUMP - R290 - 30AWH-P

WHY CHOOSE AquaSnap 30AWH-P?

BENEFITS FOR END USERS

**Natural refrigerant**

R290 natural refrigerant helps to minimize environmental impact (GWP100 = 0,02*), in residential and light commercial applications.

**Compact Design**

Compact footprint facilitates installation, even in small spaces.

**Low-noise operation**

With design optimization for low noise levels, the 30AWH-P features quiet operation, with ErP rated sound power levels starting from 49dB(A), and a night mode can be activated by the user.

**High LWT****(Leaving Water Temperature)**

Reaching up to 75°C LWT, the 30AWH-P can supply more domestic hot water, that in addition can be stored at a higher temperature for anti-legionella protection.

**High energy efficiency**

SCOP up to 4,82
SEER up to 5,34
Energy class A+++ (35°C)**
or A++ (55°C)**

**Certified performance**

New 30AWH-P can satisfy local incentive requirements***.

BENEFITS FOR INSTALLERS

**Wide range**

The 30AWH-P range of reversible heat pumps comprises 6 single-phase models and 2 three-phase models, from 4 kW to 14 kW, to meet different requirements.

**Safety**

Low refrigerant charge and the hermetically sealed coolant circuit help minimize the potential for leaks. In addition, an external gas separator installed on the leaving water pipe further prevents any potential gas leakage from being released into the house.

**Easy handling and transportation**

Due to compact dimensions and reduced weight, heat pump handling and transportation are easier.

**Easy installation**

Optimized layout and structure for easy connection and easy access to components.

* based on Regulation (EU) 2024/573

** the range of efficiency classes between A+++ and D

***depends on local market regulation

MONOBLOC AIR-TO-WATER HEAT PUMP - R290 - 30AWH-P

INNOVATION AND ENVIRONMENTAL STEWARDSHIP

Carrier develops innovative products with the goal to help our customers avoid more than 1 gigaton of greenhouse gas emissions by 2030.

We understand the challenges of climate change and we are committed to providing customers with increasingly more holistic energy and climate solutions. Our innovative products help customers meet their energy and carbon reduction goals, while we shift to [more renewable energy sources](#) through electrification and to [refrigerants with lower global warming potential](#).

The deployment of Carrier heat pumps to reduce carbon emissions and energy consumption is just one example.



MONOBLOC AIR-TO-WATER HEAT PUMP - R290 - 30AWH-P

R290 NATURAL REFRIGERANT

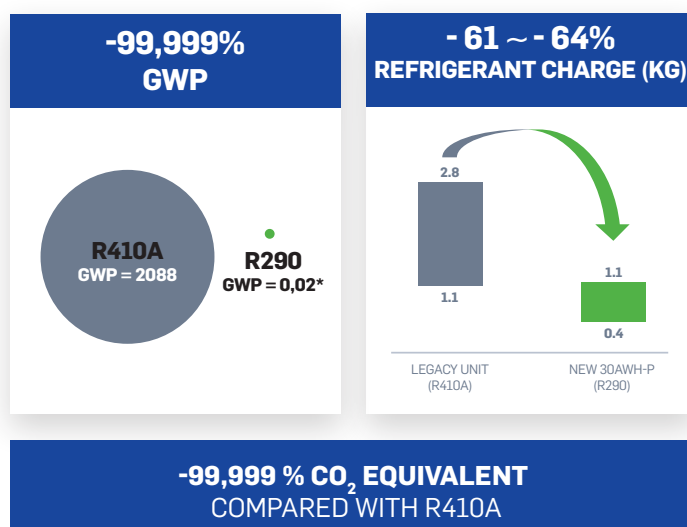


MINIMIZING ENVIRONMENTAL IMPACT

For the innovative heat pump range AquaSnap 30AWH-P, Carrier has selected R290 natural refrigerant (Propane), featuring an extremely low Global Warming Potential (GWP100 = 0,02).

With a zero ozone depletion potential (ODP) and a significantly lower refrigerant charge, compared with traditional refrigerants, R290 natural refrigerant represents an environmentally sustainable choice, reducing equivalent emissions of CO₂ by 99,999 %.

All parts containing greenhouse gas are hermetically sealed, which helps to minimize the potential for leaks and does not require opening to make the system ready for operation.



ENERGY SAVINGS DUE TO INCREASED ENERGY EFFICIENCY

SCOP
up to
4,82

SEER
up to
5,34

AquaSnap 30AWH-P units improve energy efficiency when compared with standard refrigerant such as R410A. Due to this increased efficiency, the heat pump reduces the amount of energy needed for cooling and heating requirements.

DESIGNED AND MADE IN EUROPE

Each unit in the AquaSnap 30AWH-P range, designed and manufactured in Europe at our Carrier plants, is tested over several steps along the production line before packaging, for top level quality.



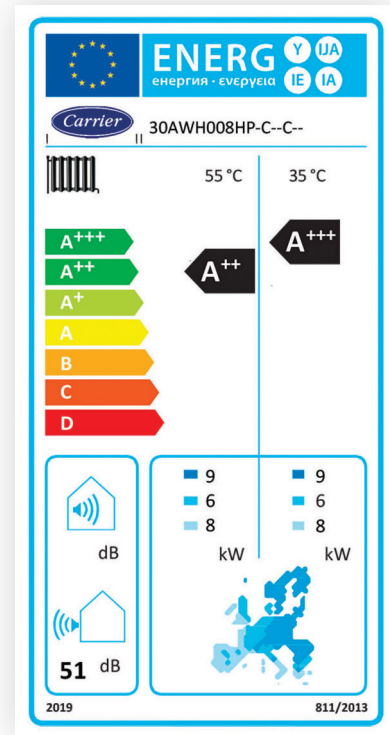
* based on Regulation (EU) 2024/573

MONOBLOC AIR-TO-WATER HEAT PUMP - R290 - 30AWH-P

AN ENERGY-VALUABLE SOLUTION

All sizes of the 30AWH-P range feature the **A+++ energy class for heating (OAT 7°C; LWT 35°C)*** or **A++ (OAT 7°C; LWT 55°C)***, offering high heating power with low energy consumption.

* the range of efficiency classes between D and A+++



LOW-NOISE OPERATION

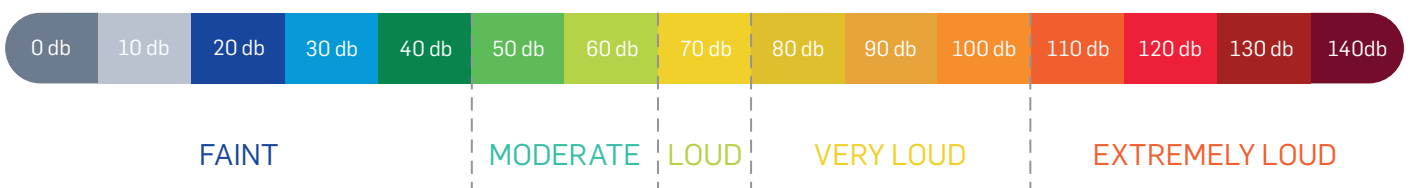
Carrier has carefully designed this innovative range to offer a low-noise solution without compromising its high performance under standard operational conditions.

The 30AWH-P features **ErP rated sound power level starting at 49dB(A)**, and a night mode that can be activated by user.



From a distance of 5m, the 30AWH-P features a low sound pressure level starting at just 24dB(A)* on the smallest size thanks to the acoustic insulation on the metal panels around the hydraulic and refrigerant modules.

*measured from a distance of 5 m (OAT +7° C, LWT +47/55° C), according to the EN 12102-1 European Standard at ErP conditions.



Noise level chart showing examples of sounds with dB levels ranging from 0 to 140 decibels.

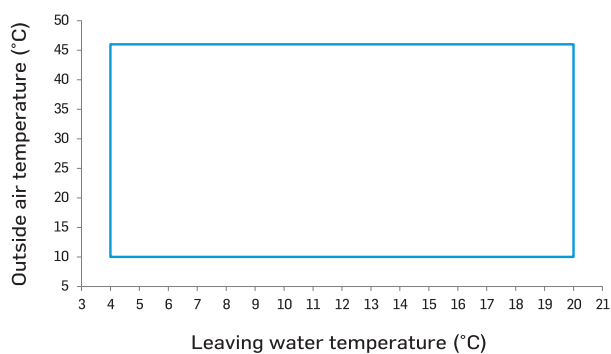
MONOBLOC AIR-TO-WATER HEAT PUMP - R290 - 30AWH-P

YEAR ROUND COMFORT

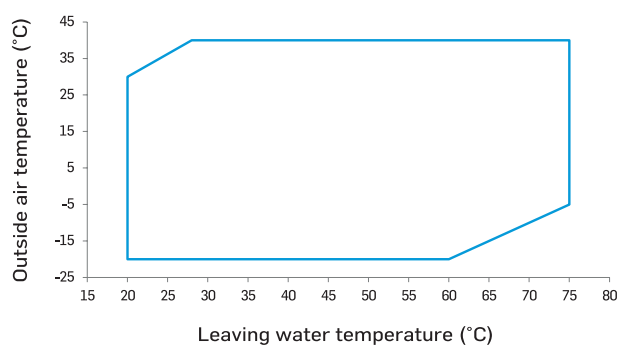
The AquaSnap 30AWH-P heat pump range can be used in a wide range of outdoor air temperatures, representing a sound solution for different climates.

As the graphs below show, in heating mode it can operate at an outdoor air temperature from -20°C . In cooling mode, it operates at up to $+46^{\circ}\text{C}$, whilst delivering water at a stable temperature for cooling, heating and domestic hot water (DHW) production.

COOLING MODE

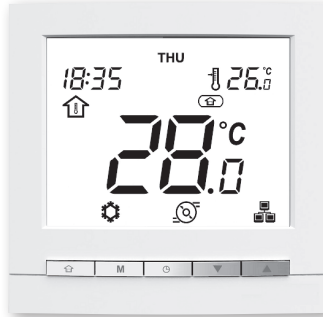


HEATING AND DHW MODE



MONOBLOC AIR-TO-WATER HEAT PUMP - R290 - 30AWH-P

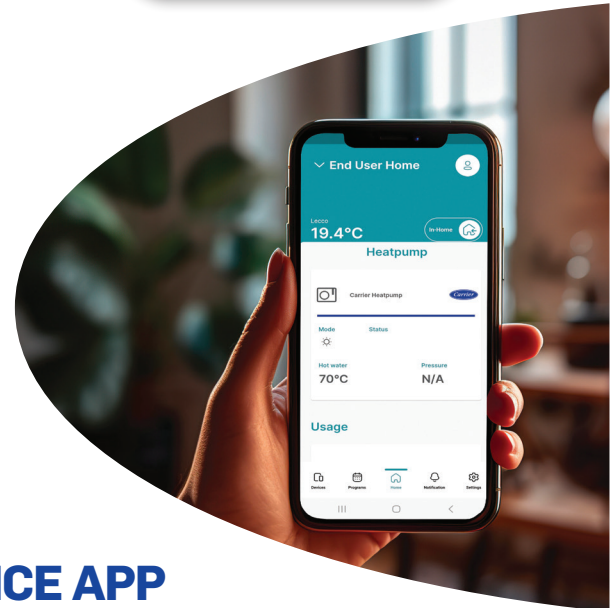
WUI MULTI-FUNCTION WIRED CONTROLLER



- Included inside the unit for immediate start-up and use of the unit
- Intuitive icons to help avoid language barriers
- Occupancy mode (Home, Sleep, Away)
- Easy temperature control to set either air temperature or water temperature depending on system configuration
- Weekly timer function
- Two levels of access: end-user and technician
- **Manages cascade system with up to 4 units**

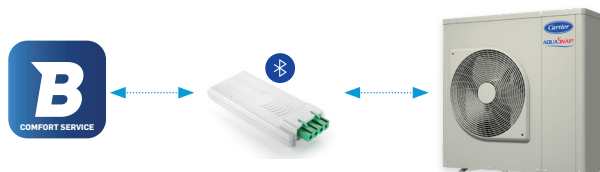
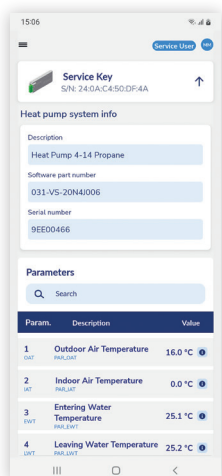
CARRIER COMFORT MANAGEMENT T300

Carrier Comfort Management T300 is an advanced room control, featuring a stylish and modern design, that thanks to the built-in Gateway allows the remote management of home comfort via Carrier Comfort Management App. Besides managing up to 3 zones via expansion PCB, the T300 advanced control can operate as a true System Manager for the heating and cooling generation system (intuitive management of the heat pump and full-electric system operation, as well as hybrid distribution). The screen graphics of Carrier Comfort Management T300 are easy to read and contain self-explanatory icons allowing an intuitive use.

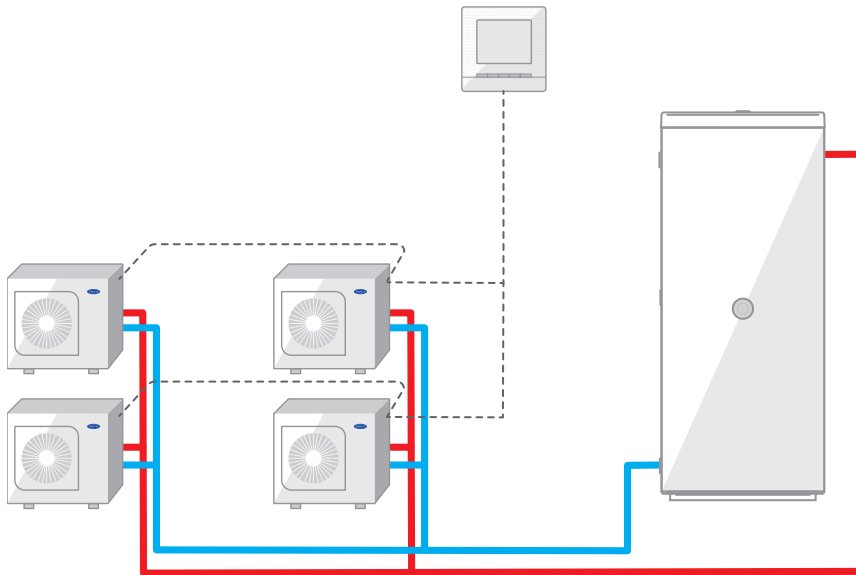


BlueEdge™ COMFORT SERVICE APP

Service technicians can do commissioning, diagnostics and troubleshooting easily and intuitively using the BlueEdge Comfort Service App, which is an additional benefit of the AquaSnap 30AWH-P.



MONOBLOC AIR-TO-WATER HEAT PUMP - R290 - 30AWH-P

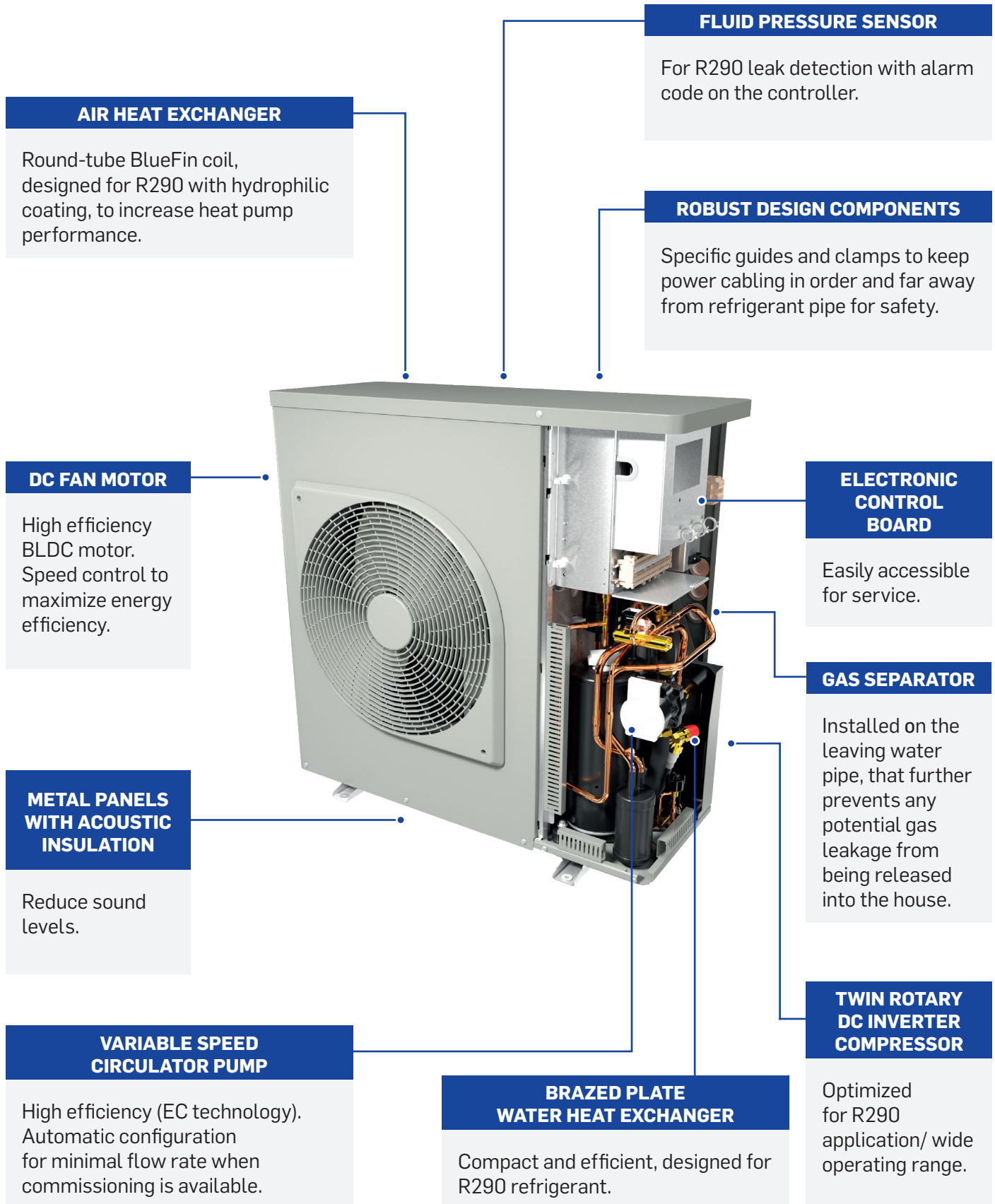
AquaSnap 30AWH-P IN CASCADE

AquaSnap 30AWH-P can be cascaded with up to 4 units for heating and cooling requirements in light commercial applications. Each of the units can individually meet the requirements of the space in which it is installed.



MONOBLOC AIR-TO-WATER HEAT PUMP - R290 - 30AWH-P

KEY FEATURES



MONOBLOC AIR-TO-WATER HEAT PUMP - R290 - 30AWH-P

IDEAL FOR RENOVATION AND NEW HOUSING

SPACE-SAVING AND LIGHTWEIGHT SOLUTION

Compact size and reduced weight are among the most distinguishing features of AquaSnap 30AWH-P on the market.

In particular, due to its [width of only 946 mm](#) and its [weight starting from just 79,3 kg](#), AquaSnap 30AWH-P can also be installed in small spaces.

COMPACT FOOTPRINT



LEAVING WATER TEMPERATURE UP TO 75°C

With a high leaving water temperature of up to 75°C, AquaSnap 30AWH-P is [suitable for the replacement of oil and gas boilers](#).

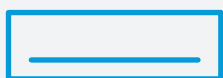
In addition, it can deliver more hot water and [helps to avoid the need for direct electric immersion to sterilize the water](#), protecting from legionella.

DIFFERENT TERMINAL UNITS

The range has been designed to deliver high performance, suitable for low to medium temperature emitters (floor heating, fan coil units, hydronic cassettes, radiators, mixed installations, etc.) up to high-temperature emitters for renovation applications (boiler replacement).

TERMINAL UNITS

Suitable for low, medium and high temperatures.



fan coils



floor heating

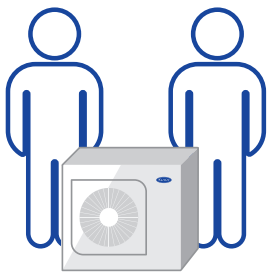


radiators

MONOBLOC AIR-TO-WATER HEAT PUMP - R290 - 30AWH-P

EASY HANDLING AND TRANSPORTATION

Compact size and reduced weight* translate into easier handling and transportation for the installer.



Weight starting from



EASY INSTALLATION AND SERVICING

Optimized layout and structure for easy connection & easy access to components.

SAFETY

Low refrigerant charge and its hermetically sealed refrigerant circuit help minimize the potential for leaks. No need to open the refrigerant circuit to put the system into operation.

Robust component design helps to avoid any potential risks of refrigerant leaks.

Pressure sensor that detects any refrigerant leakage, whilst displaying the alarm code on the wired controller.

Gas separator installed on the leaving water pipe that further prevents any potential gas leakage from being released into the house.

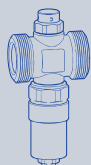


* compared to Carrier portfolio of A2W monobloc heat pumps in R32

MONOBLOC AIR-TO-WATER HEAT PUMP - R290 - 30AWH-P

ACCESSORIES TO MEET DIFFERENT NEEDS

ANTI-FREEZE VALVE



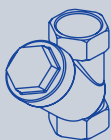
Anti-freeze valve is designed to discharge the water preventing ice formation in the heat pump circuit due to unexpected electrical power outage

SENSOR



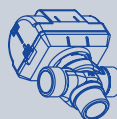
Outdoor ambient temperature sensor to better read the outdoor air temperature

Y SHAPE FILTER



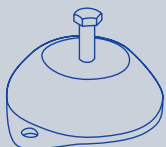
Y-water filter to trap any impurities in the water circuit which may damage the heat exchanger

1" AND 1" 1/4 DIVERTER VALVE



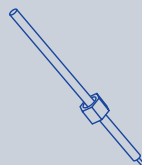
Available with or without temperature sensor for DHW tank

ANTI-VIBRATION KIT



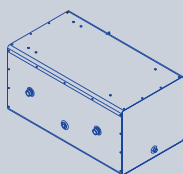
Anti-vibration kit installed under the unit to reduce transmission of vibrations

PRIMARY/SECONDARY SENSOR FOR CASCADE SYSTEM



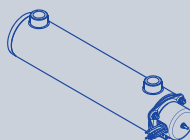
Supplementary water outlet temperature sensor kit for primary/secondary operation of up to 4 units connected in cascade system

INERTIAL BUFFER TANK



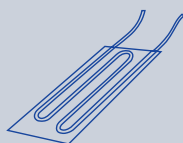
50 litres and 100 litres buffer tanks suitable for horizontal installation underneath the heat pump.

BACK-UP HEATER



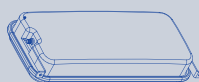
External electric back-up heater (configurable for 2, 4 or 6 kW) to provide supplementary heating capacity for cold climate.

DRAIN PAN HEATER



Electric heater to prevent condensate freezing (base panel and drain duct) for cold climate.

EXPANSION VESSEL



External expansion vessel to maintain the right level of pressure in the heating system.

MONOBLOC AIR-TO-WATER HEAT PUMP - R290 - 30AWH-P

TECHNICAL DATA

30AWH 04P-14P				004P (1Ph)	006P (1Ph)	008P (1Ph)	010P (1Ph)	012P (1Ph)	014P (1Ph)	012P ^(*) (3Ph)	014P ^(*) (3Ph)	
Heating												
Nominal performances ⁽¹⁾	HA1	Nominal capacity	kW	3,95	5,80	7,60	9,60	11,40	13,80	11,40	13,80	
		COP	kW/kW	4,90	4,90	4,80	4,35	4,55	4,30	4,65	4,40	
	HA2	Nominal capacity	kW	3,85	5,50	7,80	9,50	10,80	13,60	10,80	13,60	
		COP	kW/kW	3,65	3,65	3,75	3,55	3,65	3,40	3,75	3,50	
	HA3	Nominal capacity	kW	3,75	5,25	7,55	9,40	10,95	13,25	10,95	13,25	
		COP	kW/kW	2,95	2,95	3,15	2,95	3,10	2,90	3,15	2,95	
Seasonal efficiency ⁽²⁾	HA1	SCOP	kWh/kWh	4,70	4,82	4,69	4,69	4,74	4,74	4,74	4,74	
		η _s heat	%	185	190	185	185	187	187	187	187	
		P _{rated}	kW	4	5	6	6	9	9	9	9	
		Annual Energy consumption	KWh	1666	2092	2829	2829	4068	4068	4068	4068	
		Energy class	D → A+++ ^(**)	A+++	A+++	A+++	A+++	A+++	A+++	A+++	A+++	
	HA3	SCOP	kWh/kWh	3,34	3,34	3,34	3,34	3,35	3,35	3,35	3,35	
		η _s heat	%	131	131	131	131	131	131	131	131	
		P _{rated}	kW	3	5	6	6	9	9	9	9	
		Annual Energy consumption	KWh	2138	3010	3989	3989	5743	5743	5743	5743	
		Energy class	D → A+++ ^(**)	A++	A++	A++	A++	A++	A++	A++	A++	
	Cooling											
	Nominal performances ⁽¹⁾	CA1	Nominal capacity	kW	3,35	4,60	6,50	7,40	9,70	10,70	9,70	10,70
EER			kW/kW	3,15	3,15	3,05	2,90	3,05	2,95	3,10	3,00	
CA2		Nominal capacity	kW	4,00	6,15	8,00	8,90	12,00	14,50	12,00	14,50	
		EER	kW/kW	4,15	3,90	4,00	3,70	4,30	3,70	4,35	3,75	
Seasonal efficiency	SEER _{12/7 °C} Comfort low temp,		kWh/kWh	4,93	5,34	5,27	5,14	5,33	5,16	5,33	5,16	
	η _s cool		%	194	211	208	203	210	203	210	203	
Sound levels												
Standard unit												
Sound power level, ErP C condition A7/W55 ⁽³⁾			dB(A)	49	50	51	51	54	54	54	54	
Sound pressure level at 5 m, ErP C condition A7/W55 ⁽⁴⁾			dB(A)	23,5	24,5	25,5	25,5	28	28	28	28	
Dimensions												
Length			mm	946	946	946	946	946	946	946	946	
Width without gas separator			mm	430	430	430	430	430	430	430	430	
Width including gas separator			mm	560	560	560	560	560	560	560	560	
Height			mm	927	927	927	927	1375	1375	1375	1375	
Net weight												
Standard unit without gas separator ⁽⁵⁾			kg	78	84	91	93	126	126	128	128	
Standard unit with gas seperator			kg	79,3	85,3	92,3	94,3	127,3	127,3	129,3	129,3	
Compressors			Rotary compressor	1	1	1	1	1	1	1	1	
Refrigerant							R290					
Charge ⁽⁵⁾			kg	0,39	0,58	0,76	0,76	1,07	1,07	1,07	1,07	

(*) Available from 2025

(**) The efficiency class of this product family ranges from D to A+++

(1) In accordance with EN 14511-3:2022 standard

(2) In accordance with EN 14825:2022 standard. Average climate

C1 Cooling mode conditions : evaporator water entering/leaving temperature 12°C/7°C, outside air temperature 35°C, evaporator fouling factor 0m² K/W

C2 Cooling mode conditions : evaporator water entering/leaving temperature 23°C/18°C, outside air temperature 35°C, evaporator fouling factor 0m² K/W

H1 Heating mode conditions : Water heat exchanger water entering/leaving temperature 30°C/35°C, fouling factor 0m² K/W. Outside air temperature 7°C db / 6°C wb

H2 Heating mode conditions : Water heat exchanger water entering/leaving temperature 40°C/45°C, fouling factor 0m² K/W. Outside air temperature 7°C db / 6°C wb

H3 Heating mode conditions : Water heat exchanger water entering/leaving temperature 47°C/55°C, fouling factor 0m² K/W. Outside air temperature 7°C db / 6°C wb

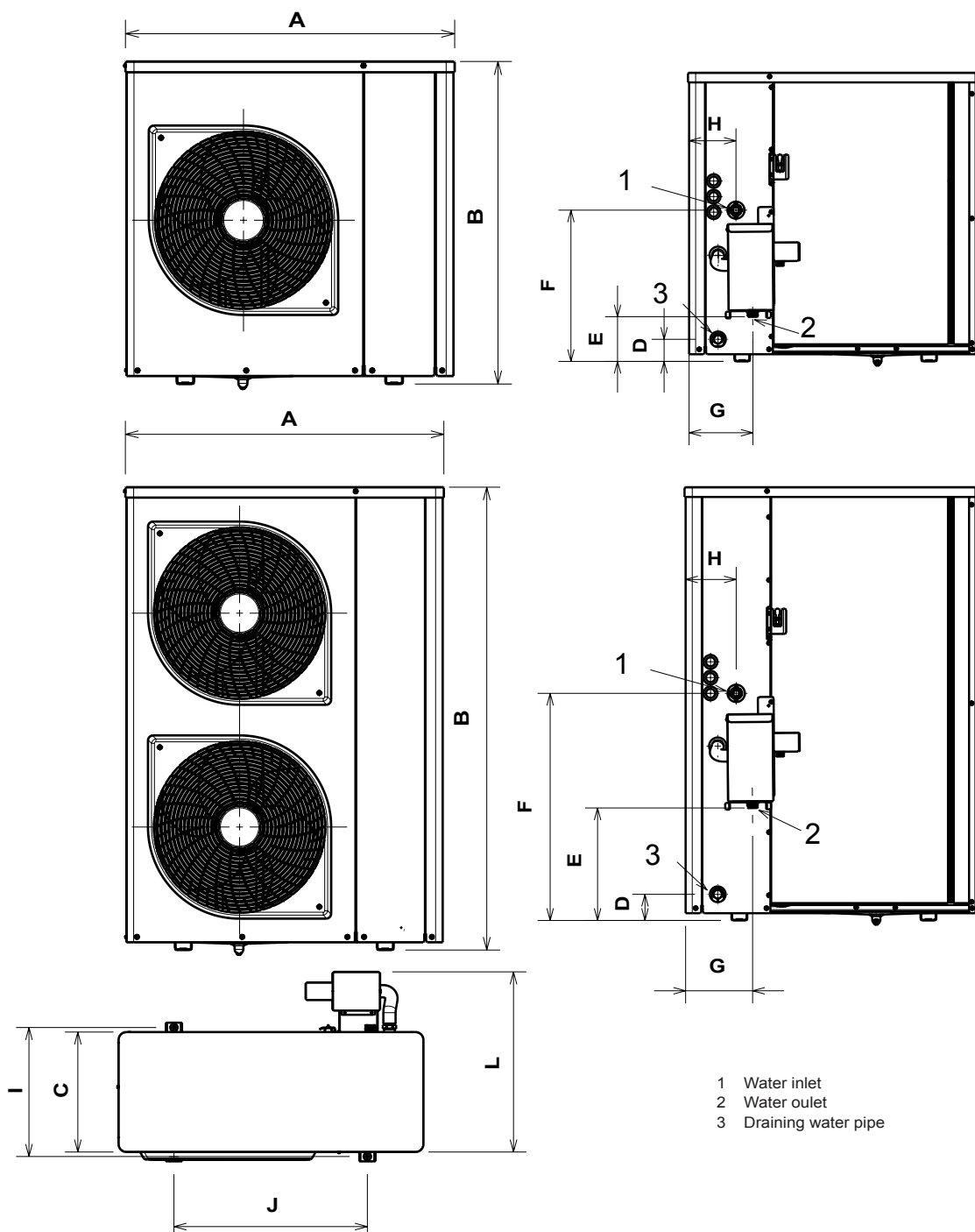
(3) In dB ref=10⁻¹² W, (A) weighting. Declared dualnumber noise emission values in accordance with EN 12102-1 at ErP conditions (with an associated uncertainty of +/-2dB(A)). as required by Ecodesign regulation. Measured in accordance with ISO 9614-1.

(4) In dB ref 20 µPa, (A) weighting. Declared dualnumber noise emission values in accordance with EN 12102-1 at ErP conditions (with an associated uncertainty of +/-2dB(A)). For information, calculated from the sound power level Lw(A).

(5) Values are guidelines only. Refer to the unit nameplate.

MONOBLOC AIR-TO-WATER HEAT PUMP - R290 - 30AWH-P

DIMENSIONS



30AWH-P	A	B	C	D	E	F	G	H	I	J	L
004	946	927	372	71	143	485	201	150	400	600	560
006	946	927	372	71	143	485	201	150	400	600	560
008	946	927	372	71	143	485	201	150	400	600	560
010	946	927	372	71	143	485	201	150	400	600	560
012	946	1375	372	83	357	720	210	160	400	600	560
014	946	1375	372	83	357	720	210	160	400	600	560

Note : Dimensions are given in mm



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10/2024
B-RLC-030_30AWHP-EN

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 are subject to change without prior notice.



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Техника для климата

Доставляем оборудование по всей России от 3 дней транспортными компаниями. Реализуем проекты в десятках регионов — от Калининграда до Владивостока.

9600+

объектов и поставок

от 1 дня

отгрузка в транспортную компанию

Технические данные файла

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Постоянная ссылка: <https://iclim.ru/library/carrier-b-rlc-030-aquasnap-30awhp-en-10-2024-katalog.pdf>

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