

AQUASNAP
Heating

Heat pumps

61AF



Air to water

H I G H - T E M P E R A T U R E H E A T I N G

Carrier



A trusted brand

When Willis Carrier invented the first system for “manufactured weather” in 1902, he sparked an industry that revolutionised the way we live, work and play.

Since that defining moment Carrier has been a company built on a legacy of innovation, working to create a comfortable, productive and healthy indoor environment, regardless of the weather.

Carrier provides heating, ventilating and air conditioning solutions for optimised individual customer comfort.

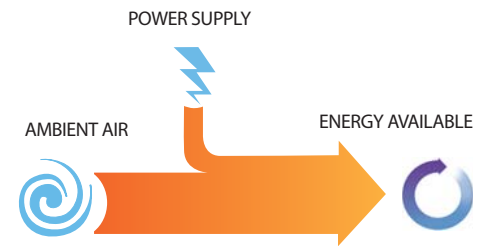
Technology and sustainability

The AquaSnap 61AF is a solution that is ready for the future: a unique heat pump system for space heating and domestic hot water production.

A solution to replace an existing boiler and enhance the building’s energy efficiency.

Heat pumps use mainly ambient air to generate warm air for domestic heating. This source of renewable energy reduces the overall energy consumption and minimises CO₂ emissions.

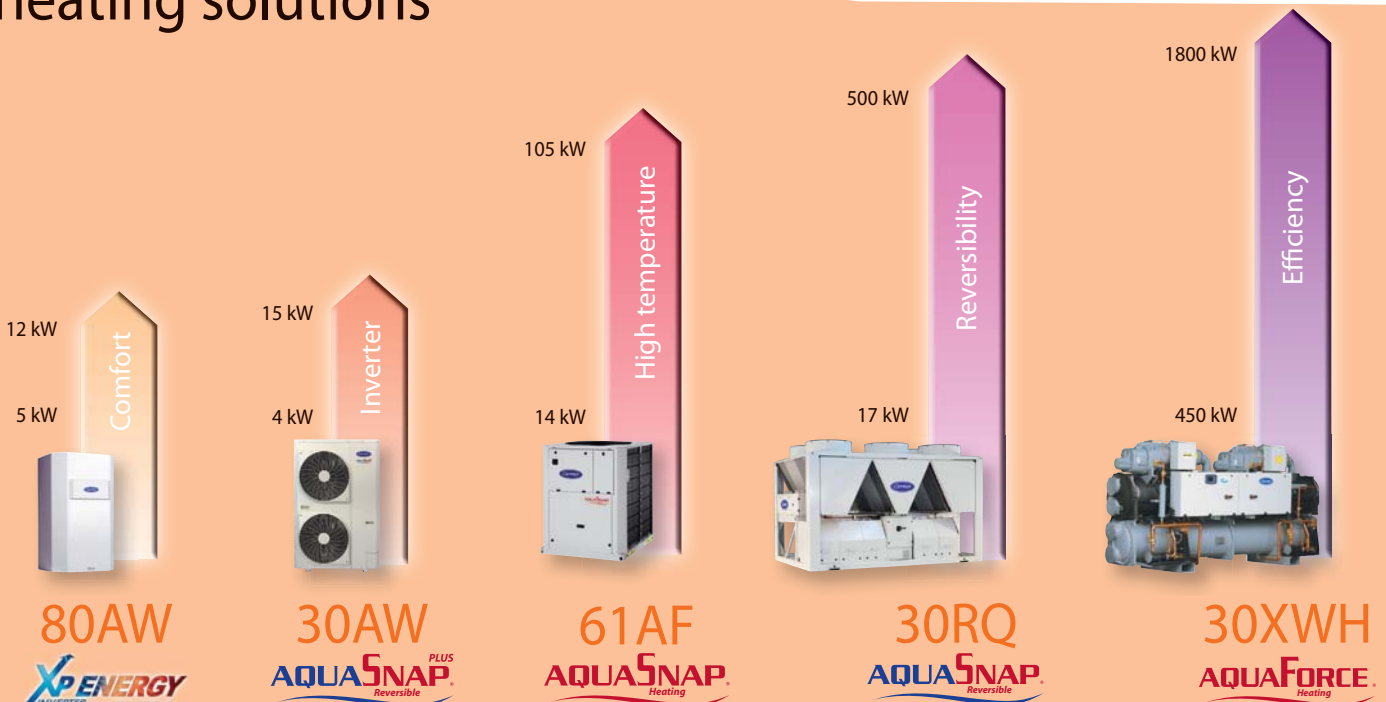
With its advanced Carrier core technology, this unit boasts exceptional efficiency and contributes to reduced CO₂ emissions.



Tax reductions and incentives

AquaSnap high-temperature heat pump efficiency qualifies for local tax reductions or rebate incentive programmes.

Carrier heating solutions





Range from 14 to 105 kW



Down to -20°C

Even in extremely low temperatures the unit can provide domestic hot water up to 55°C.

The monobloc units are available in various sizes to suit all capacity and performance needs.



Easy to install Compact

The 61AF AquaSnap high-temperature heat pump arrives at your jobsite fully assembled, tested, charged and all set for easy installation.

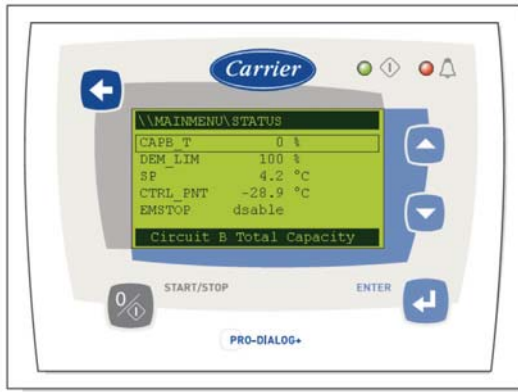
With the integrated hydronic module, there is no need for additional space to install the water pump, valves and hydronic accessories.

The unit includes removable panels for immediate access to all components.



With its low profile – less than 1.33 m in height – and small footprint, the 61AF AquaSnap high-temperature heat pump can be installed virtually anywhere.

PRO-DIALOG+ Intelligent comfort



The sophisticated Pro-Dialog+ digital control system allows precise adjustment to maximise energy savings and obtain ideal comfort conditions at all times.

Ergonomists helped design the user-friendly display, for easy control of the unit operating parameters.

Main control features:

- User-friendly interface
- Energy management
- 7-day schedule timer
- Boiler control board

Constantly controlled components:

- Compressors
- Condenser water pump
- Fans
- Expansion devices

Monitored parameters:

- Pressure values
- Setpoints
- Outside air temperature
- Entering/leaving water temperature
- Stored operating data (diagnostics)

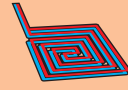


Heating and hot water all year round

65°C
Domestic hot water 

55°C
Radiator 

45°C
Fan coil units 

35°C
Under-floor heating 



Carrier

The ideal solution for a wide range of applications



Residential homes

Offices

Apartment buildings

Restaurants

Shops

Hotels

Small shops

Warehouses



Reliability

Reliability was a top priority in the design of the AquaSnap heat pump. The unit passed several endurance and transportation tests to reflect the most challenging conditions.

The heat pump's refrigerant circuit is completely sealed, minimising the risk of leakage.

The Pro-Dialog+ control system constantly checks and analyses all compressor operating parameters.

Certified performance

Carrier products are thoroughly tested for many different operating conditions in Carrier's state-of-the-art laboratory (ISO standards).

Unit performance is certified by Eurovent - an important guarantee for consultants and installers.

Carrier Service

Backed by a world-wide sales and after-sales organisation, Carrier's service and maintenance solutions are designed to add maximum value over the full operational life of the system.

Physical data

61AF		014 (†)	019	022	030	035	045	055	075	105
Nominal heating capacity*	kW	14	19.8	21.1	28.5	34.2	45	54	70	102.5
Power input	kW	4.2	6	5.9	8.1	9.2	11.5	14	19.4	27.7
Coefficient of performance (COP)	kW/kW	3.3	3.3	3.6	3.5	3.7	3.9	3.9	3.6	3.7
EUROVENT class, heating		A	A	A	A	A	A	A	A	A
Nominal heating capacity**	kW	10	14.2	15.2	19.5	23.1	29.5	36.5	51.5	68.2
Power input	kW	3.2	4.6	4.7	6.1	7.5	9.1	11	16.6	21.3
Coefficient of performance (COP)	kW/kW	3.1	3.1	3.2	3.2	3.1	3.2	3.3	3.1	3.2
Operating weight										
Standard unit without hydronic module	kg	154	198	343	396	421	509	533	895	995
Standard unit with hydronic module option	kg	190	250	349	403	436	524	549	920	1020
Sound power levels***										
Standard unit	dB(A)	71	72	81	82	83	84	84	86	87
Unit with low-noise option	dB(A)	NA	NA	80	80	80	80	80	82	82
Compressors										
Quantity		Scroll EVI	Scroll EVI	Scroll EVI	Scroll EVI	Scroll EVI	Scroll EVI	Scroll EVI	Scroll EVI	Scroll EVI
Refrigerant		R-407C	R-407C	R-407C	R-407C	R-407C	R-407C	R-407C	R-407C	R-407C
Dimensions										
Length	mm	1100	1100	1230	1230	1230	2100	2100	2100	2100
Width	mm	333	500	1114	1114	1114	1114	1114	2273	2273
Height	mm	1278	1580	1330	1330	1330	1330	1330	1330	1330
Power supply	V-ph-Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50

* Standardised EUROVENT conditions, heating mode : condenser entering/leaving water temperature 40°C/45°C, outside air temperature 7°C db/6°C wb

** ECOLABEL conditions, heating mode, integrated capacities : condenser entering/leaving water temperature 30°C/35°C, outside air temperature 2°C db/1°C wb

*** In accordance with ISO 9614-1

(†) 61AF 014 : single-phase model also available

Range overview



14-19 kW



22-55 kW



75-105 kW



www.eurovent-certification.com
www.certiflash.com



Quality and Environment
Management Systems
Approval



turn to the experts™

www.carrier.com

Order number: 16113-20, 04.2011

Manufacturer reserves the right to discontinue, or change at any time specifications or designs without notice and without incurring obligations.
Printed in the European Union.

