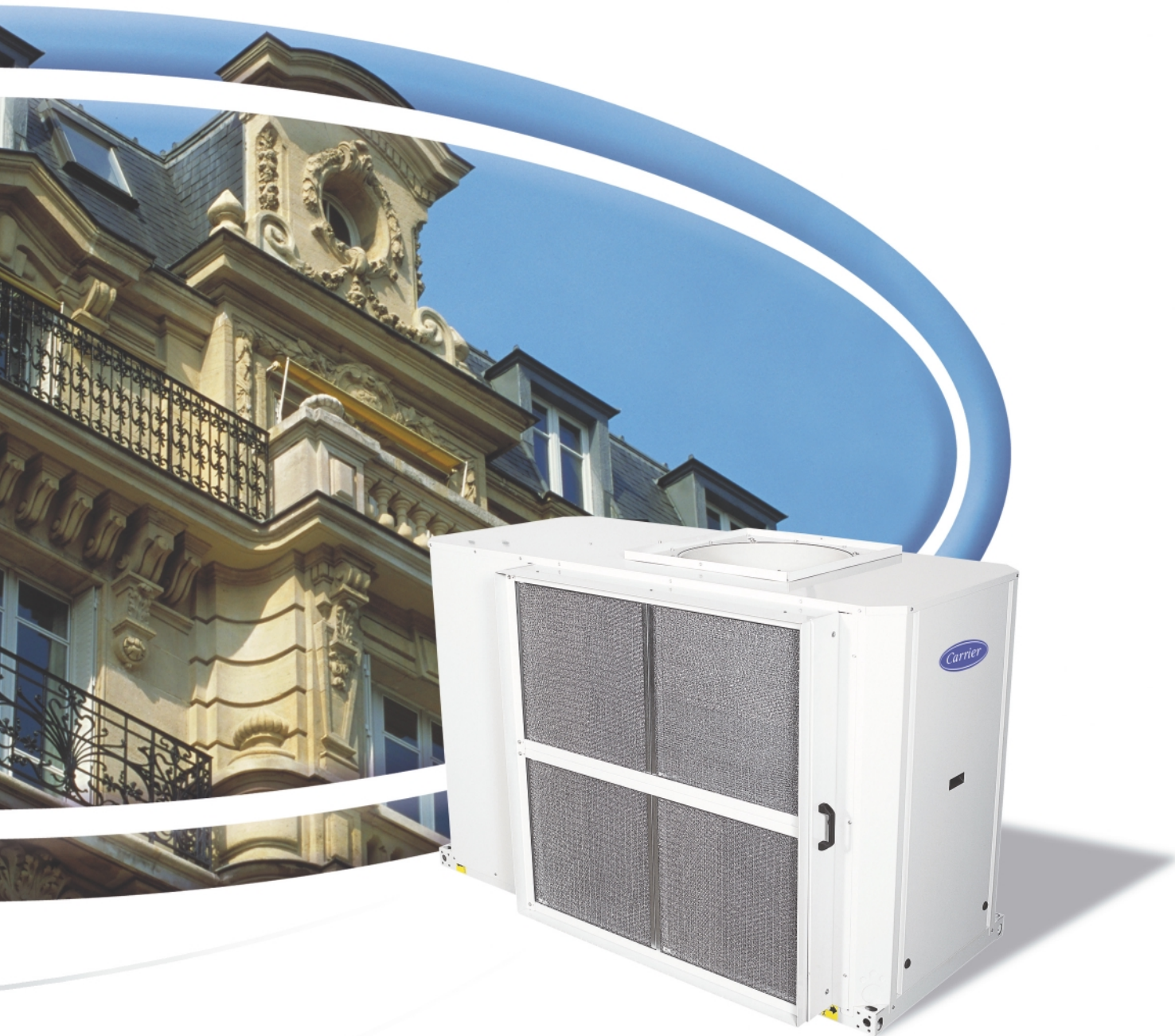




# AQUASNAP™

DUCTABLE LIQUID  
CHILLERS/HEAT PUMPS

30RY/30RYH



EVERYTHING BUILT-IN  
NOTHING TO ADD

# INTEGRATED AND INVISIBLE THE IDEAL URBAN CONCEPT

## INVISIBLE!

Invisible, inaudible, discreet – the ductable Aquasnap version meets all aesthetic, architectural and environmental constraints and ensures everyone's comfort.

Invisible: it is completely integrated and blends in perfectly with its surroundings, especially important in listed buildings.

Inaudible: it does not create any noise pollution source and adds to everyone's well-being.

Discreet: it is installed inside the building (under the floor, in cellars, in car parks etc.) or in the loft under the roof.

An ideal concept, a perfect solution!



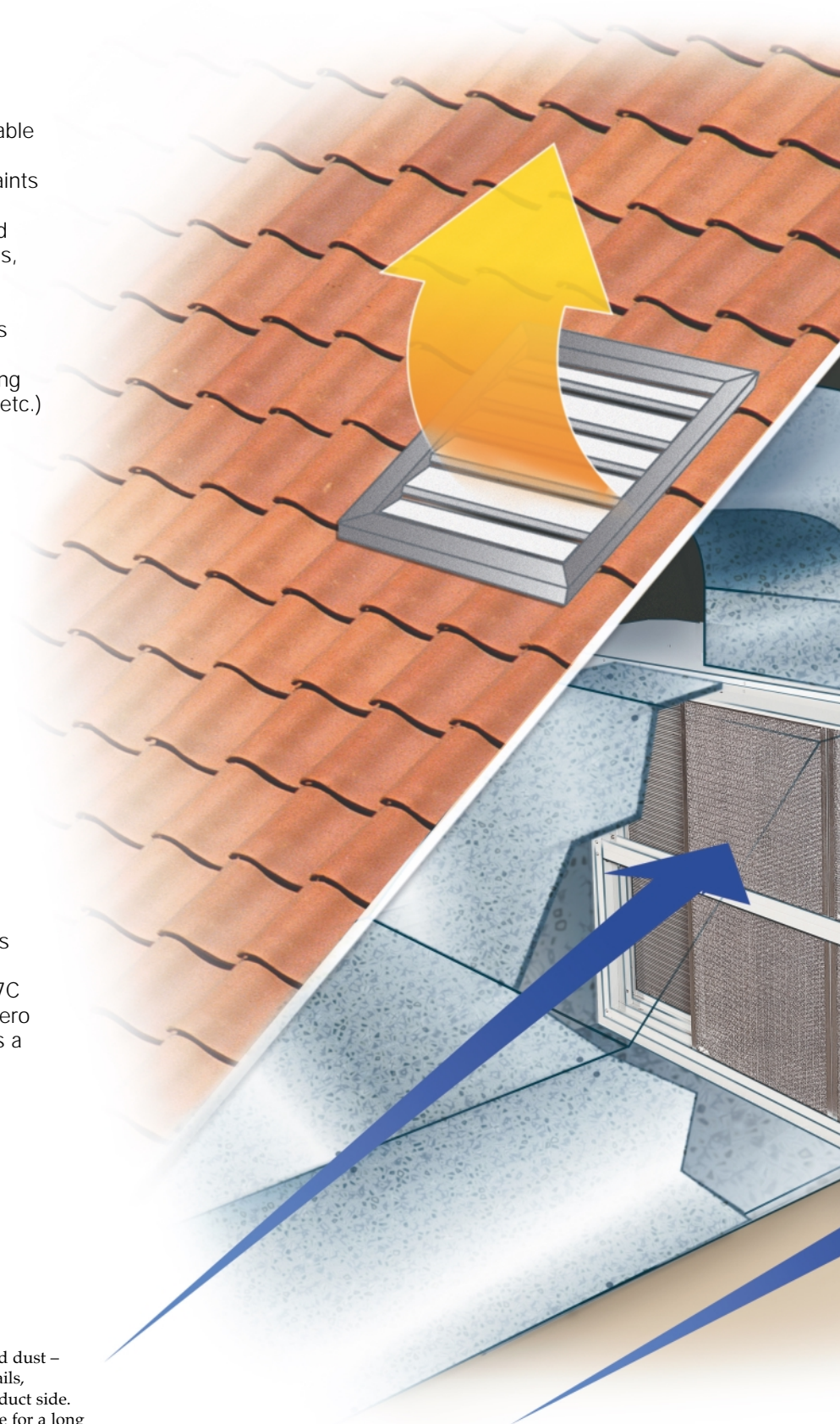
## A STATE-OF-THE-ART CHOICE FOR A BETTER FUTURE

Preserving the life of future generations inevitably means protecting our environment. By using refrigerant R407C in chillers and reversible heat pumps (zero ozone depletion potential) Carrier offers a truly ecological solution.

A choice that will pay off forever.

The accessory suction filter stops leaves and dust – sources of coil fouling. Mounted on slide rails, the filter is easily accessible on the suction duct side. It helps Aquasnap maintain its performance for a long time.

An inclined base in the condensate pan increases corrosion resistance and prevents water stagnation and the development of bacteria - an indispensable accessory to combat all risks of water infiltration ... offering 100% protection.

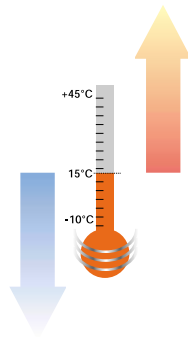


# YEAR-ROUND EFFICIENCY

## ENERGY-SAVINGS

Based on the climate conditions Aquasnap automatically adjusts the leaving water temperature in heating or cooling mode. Moreover, if the building is unoccupied the chiller or heat pump operates at a second set point. Guaranteed savings! The Aquasnap heat pump automatically controls the heating/cooling changeover based on the outdoor air temperature: heating or cooling when you need it. Year-round comfort conditions.

## FROM $-10^{\circ}\text{C}$ TO $+45^{\circ}\text{C}$

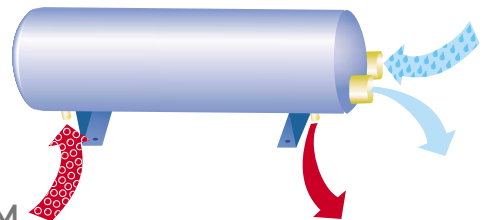


Aquasnap easily adapts to climate conditions and temperature variations. Standard operation without accessories from  $-10^{\circ}\text{C}$  to  $+45^{\circ}\text{C}$ . The refrigerant circuit, assisted by the auto-adaptive Pro-Dialog control, ensures early detection and anticipation of abnormal conditions. This prevents most chiller or heat pump shutdowns caused by a malfunction. Guaranteed peace-of-mind.

## AN INNOVATIVE REFRIGERANT SYSTEM

No check valves, one expansion device and a simple refrigerant circuit are the guarantee of risk-free operation. An operation that adapts to any climate parameters. On the Aquasnap heat pump the patented receiver/heat exchanger optimises the refrigerant charge in both heating and cooling mode. During the heating cycle the heat exchangers use their maximum surface and the compressor is constantly protected against liquid refrigerant migration.

Simplicity and technological innovation.



## PRO-DIALOG, NON-STOP MONITORING FOR INCREASED PEACE-OF-MIND

This is a remarkable system!

The digital control regulates all Aquasnap functions: compressors, fans, heat pump defrost cycles, water pumps etc. It is ingenious and precise, anticipates incidents and optimises energy consumption. For example, an auto-adaptive algorithm controls compressor operation, ensuring automatic protection against excessive cycling. This means the water quantity in the hydronic circuit is considerably reduced.

Guaranteed security.



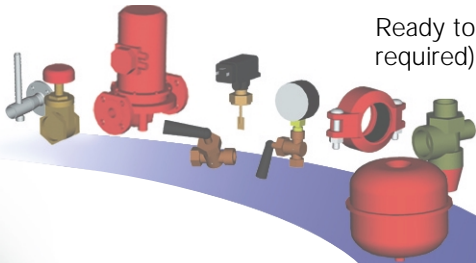
# BOLT DOWN, PLUG IN - READY

## ALL-IN-ONE

Ready to be connected to your installation (only two connections required), the Aquasnap includes all hydronic components required and all control and safety elements. The advantage?

No time wasted selecting the components ... no time wasted dealing with several suppliers ... no time wasted with the mechanical installation and electrical wiring on-site ... everything is tested in the factory for simple and fast start-up and service. What a difference and what savings in time and energy!

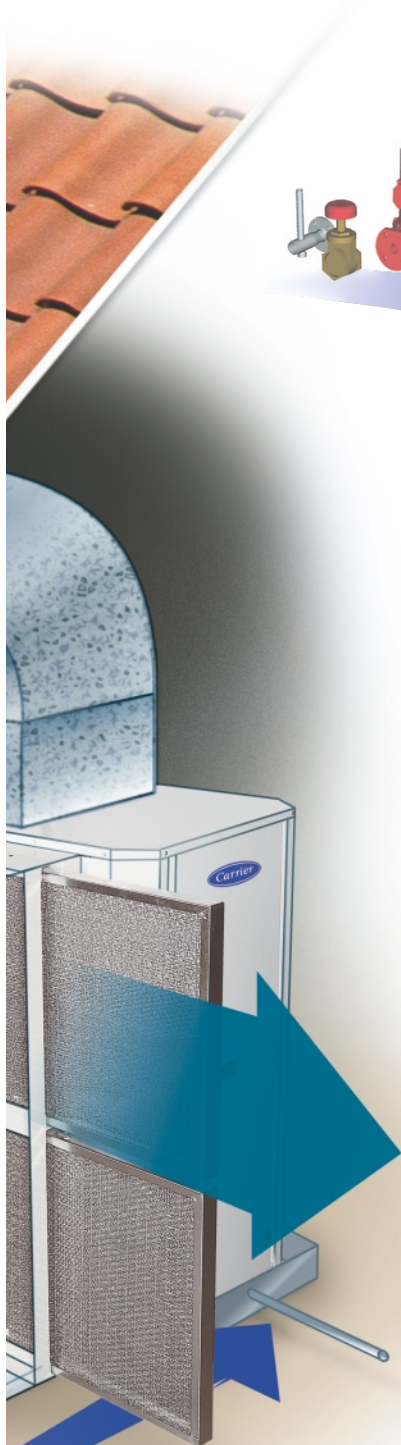
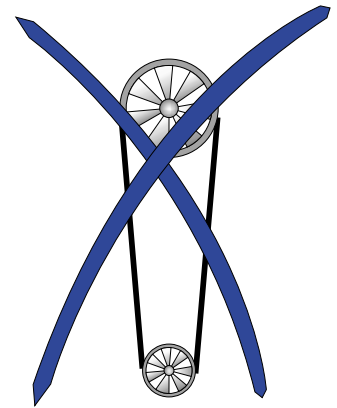
The "all-in-one" concept that is ideally suited to any residential or light commercial application.



## NO FAN ADJUSTMENT

This is pure simplicity.

The Aquasnap axial fan with available pressure does not require adjustment during installation – the air flow remains constant for ductwork of any length. Direct drive means checking the transmission belt is no longer one of your daily tasks.



## QUICK AND SIMPLE CONNECTION

The Aquasnap is fast and easy to connect and equipped with a single power inlet without neutral, a main disconnect switch installed as standard and a low-voltage safety control circuit.

Child's play .... the ultimate in simplicity.

# SILENT OPERATION TECHNOLOGY THAT SETS NEW STANDARDS



## AN ULTRA-QUIET COMPRESSOR

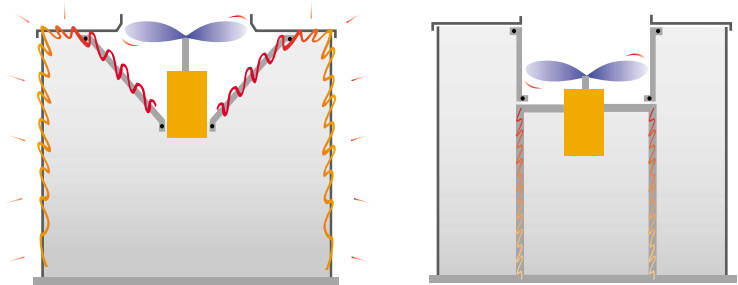
The silence is remarkable.

Use of rotary scroll compressors – vibrations and nuisance noise are minimised. Durable, reliable, economical and specifically designed for R407C – the ultimate in quiet operation.

## A SILENT FAN

The fan is attached to an extremely rigid tower chassis, resulting in a significant noise level reduction. Fixed to the base of the Aquasnap unit this chassis also supports the water heat exchanger for greater stability. Unique innovative installation, specifically designed to prevent noise transmission and amplification to the unit frame assembly.

Moreover the low speed of the two-speed fan is automatically selected if the outside temperature drops and less cooling is required.



## SIMPLIFIED CONTROL

The operator interface of the Pro-DIALOG control is extremely user-friendly. LEDs and numerical displays permit optimal and immediate verification of the operating data:

- a simple press of a button on the Aquasnap refrigerant circuit diagram, and the parameters (temperatures, pressures, set points, compressor run times etc.) are displayed.
- 10 menus, including fault history, permit complete chiller or heat pump diagnosis.



Carrier actively participates in the Eurovent certification programmes. Eurovent is an independent organisation that tests products and verifies the conformance between test results and data published by the manufacturer. Eurovent certification is an important guarantee for consultants and installers. They can be sure that a product with Eurovent certification will operate in conformance with the specifications and satisfy customer requirements. The Aquasnap chillers and heat pumps come with Eurovent certification.

TECHNICAL DATA 30RY/RYP

| TECHNICAL DATA 30RY/RYP         |     | 017             | 021  | 026  | 033     | 040          | 050  | 060 | 070 | 080 |
|---------------------------------|-----|-----------------|------|------|---------|--------------|------|-----|-----|-----|
| Cooling capacity 30RY*          | kW  | 18.6            | 23.1 | 25.8 | 31.7    | 39.4         | 50   | 58  | 67  | 79  |
| Heating capacity 30RYH**        | kW  | 18.3            | 22.1 | 25.6 | 34.5    | 37           | 48.3 | 55  | 62  | 78  |
| Cooling capacity 30RYH*         | kW  | 17.8            | 22.4 | 24.1 | 31.3    | 37.8         | 44.7 | 56  | 65  | 76  |
| Refrigerant                     |     | ← R407C →       |      |      |         |              |      |     |     |     |
| Compressor: type/quantity       |     | ← Scroll/1 →    |      |      |         | ← Scroll/2 → |      |     |     |     |
| Available fan pressure          | Pa  | ← 100 →         |      |      | ← 150 → |              |      |     |     |     |
| Water pump: type                |     | ← Centrifugal → |      |      |         |              |      |     |     |     |
| Available pressure, water pump* | kPa | 226             | 202  | 189  | 152     | 141          | 135  | 132 | 120 | 147 |
| Length                          | mm  | ← 2058 →        |      |      |         | ← 2097 →     |      |     |     |     |
| Depth                           | mm  | ← 962 →         |      |      |         | ← 1128 →     |      |     |     |     |
| Height                          | mm  | ← 1351 →        |      |      |         | ← 1372 →     |      |     |     |     |
| Operating weight 30RY           | kg  | 386             | 416  | 436  | 451     | 510          | 572  | 587 | 638 | 675 |

\* Nominal Eurovent conditions: air 35°C, water 12/7°C  
 \*\* Nominal Eurovent conditions: air 7°C, water 40/45°C

**OPTIONS AND ACCESSORIES**

- \_\_\_\_\_ Suction filter mounted on slide rails
- \_\_\_\_\_ Condensate pans
- \_\_\_\_\_ Condenser anti-corrosion treatment for marine applications
- \_\_\_\_\_ Condenser anti-corrosion treatment for industrial applications (30RY)
- \_\_\_\_\_ Compressor with electronic starter
- \_\_\_\_\_ Unit without hydronic module
- \_\_\_\_\_ Dual water pump (from size 30RY/RYP 040 upwards)
- \_\_\_\_\_ Leaving water temperature down to -10°C (30RY)
- \_\_\_\_\_ Outdoor installation (from size 30RY/RYP 040 upwards)
- \_\_\_\_\_ Supplementary/safety electric resistance heater control module (30RYH)
- \_\_\_\_\_ Communications interface with building management system

**AQUASNAP™**  
 THE ALL-IN-ONE RANGE



30RA/30RH - COOLING ONLY/HEAT PUMPS  
 17-250 kW



30RY/30RYH  
 DUCTABLE COOLING ONLY/HEAT PUMPS  
 17-80 kW



30RW - WATER-COOLED UNITS  
 20-300 kW



Order No.: 18175-20-01/2004  
 Supersedes order No.: 18175-20-02/2002  
 Manufacturer reserves the right to change  
 any product specifications without notice

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