



ALPINE

HYDRONIC CASSETTE

42GW



NATURALLY SUPERIOR

NEW GENERATION DESIGNED TO MEET YOUR REQUIREMENTS

Carrier has pioneered innovations in air conditioning since the beginning of this century and holds the number one position world-wide. Part of this success story is a policy of continuous improvement, both aesthetic and technical, based on customer feedback, combined with a huge investment in research and development. The 42GW Hydronic Alpine cassette is evolutionary rather than revolutionary. It represents our 3rd generation of water-cooled cassettes and incorporates the very best features and refinements of each previous generation in a lighter and altogether better unit.

YOUR SATISFACTION IS OUR SATISFACTION

Customer satisfaction and a commitment to the wider community have helped make Carrier the number one name in air conditioning around the world. This product participates in the Eurovent certification programme. This guarantees that all performance claims we make have been scientifically validated by an independent authority so that everyone who chooses our cassettes can be sure that they live up to the claims which we make for them. By listening to customers and responding to their changing needs, while remaining sensitive to the needs of the environment, Carrier products perform in an aesthetically pleasing, quiet and energy-efficient manner.

AN EFFICIENT MIX

The 42GW uses state-of-the-art high performance filters to extract impurities from the air. Washable filters are supplied as standard. In addition, electrostatic and activated carbon filters are also available as optional extras to reduce airborne bacteria, dust, pollen and smoke or odours respectively.



JOIN THE SILENT FAN CLUB

The hydronic Alpine family performs even quieter than before. The small chassis set of units has been enhanced by adding the unit size 4 with four pipes. Noise levels have been reduced dramatically through the whole range: it is now quite simply one of the quietest unit of its kind on the market, thanks to the unique design of its centrifugal fan.

At the top end of the range, in the large chassis (800 x 800 mm) the noise reduction has been achieved also by reducing the number of fans from two to one. The unit size 12 has been added for applications where quietness is "THE REQUIREMENT".



A BREATH OF FRESH AIR

The 42GW has the capability to draw in fresh air from outside and introduces it to the ambient air inside. This ensures superior air quality, on a continuous basis, while patented wing-shaped blades distribute the air evenly throughout the room.



REMOVES CONDENSATE QUIETLY

Within the new size and new shape, the Alpine cassette houses a high-performance condensate drain pump. Despite increasing the lift to 500 mm, this achieves almost noiseless performance, even at high speed. This has been obtained by encasing the pump in a specially chosen sound-insulating material.

DESIGNED FOR EASY INSTALLATION

The low-profile 42GW is light and easy to handle. The small chassis fits neatly with standard ceiling tiles and is simple to install wherever it is needed. Octagonal in shape, the new unit is both smaller and significantly lighter than earlier models. In the hands of a professional, this makes installation an even easier task than before.



INTELLIGENT ACCESS FOR EASY MAINTENANCE

All the key components are accessible from the bottom simply by removing the grille. These include the electrical control box, the condensate pump and the new smaller drain pan. The fan can also be removed without disturbing the other components or any of the surrounding ceiling tiles. One person can perform all the servicing and maintenance activities needed, all by himself.



CONTROLLED COMFORT ALL THE TIME

The 42GW is designed to deliver as near perfect air flow as is humanly possible. No fewer than 4 different control options are available with different levels of technical sophistication, to ensure maximum user comfort.

The unit can be matched to any water chiller. It is suitable for a complete range of commercial applications, satisfying both individual and market needs in all kinds of offices, shops, restaurants and bars.



| 42GW | 2 PIPES | | | | | | 4 PIPES | | | | |
|---------------------------------|----------|---------------------|------------|-------------|--------------------------------|-------------|-------------|---------------------|------------|-------------|---------------------|
| | 42GWC004 | 42GWC008 | 42GWC010 | 42GWC012 | 42GWC016 | 42GWC020 | 42GWD004 | 42GWD008 | 42GWD010 | 42GWD020 | |
| | 42GWE004 | 42GWE008 | 42GWE010 | 42GWE012 | 42GWE016 | 42GWE020 | | | | | |
| Total cooling capacity | kW | 2.4 | 4.0 | 4.7 | 5.9 | 8.3 | 11.0 | 1.9 | 3.4 | 4.0 | 9.0 |
| Sensible cooling capacity | kW | 1.9 | 3.0 | 3.8 | 4.8 | 6.4 | 8.8 | 1.6 | 3.0 | 3.0 | 7.2 |
| Water flow (cooling) | l/h | 413 | 688 | 808 | 1015 | 1428 | 1892 | 327 | 585 | 688 | 1548 |
| Water pressure drop (cooling) | kPA | 9 | 12 | 20 | 19 | 14 | 25 | 8 | 12 | 16 | 30 |
| Heating capacity | kW | 3.8 | 5.5 | 6.6 | 8.5 | 10.6 | 14.4 | 1.9 | 4.8 | 5.4 | 7.0 |
| Electric heaters (42GWE models) | kW | 1.5 | 2.5 | 2.5 | 3.0 | 3.0 | 3.0 | - | - | - | - |
| Air flow l/m/h | l/s | 100/125/184 | 86/136/194 | 131/167/236 | 150/203/283 | 147/242/338 | 178/315/468 | 100/125/184 | 86/136/194 | 131/167/236 | 178/315/468 |
| Power input | W | 70 | 85 | 95 | 85 | 120 | 200 | 70 | 85 | 95 | 200 |
| Sound pressure level l/m/h | dB(A) | 24/29/40 | 23/34/43 | 33/39/48 | 25/31/40 | 29/40/47 | 33/46/54 | 24/29/40 | 23/34/43 | 33/39/48 | 33/46/54 |
| Sound power level l/m/h | dB(A) | 33/38/49 | 32/43/52 | 42/48/57 | 34/40/49 | 38/49/56 | 42/55/63 | 33/38/49 | 32/43/52 | 42/48/57 | 42/55/63 |
| Net dimensions H x L x D | mm | ← 298 x 575 x 575 → | | | ← 298 x 825 x 825 → | | | ← 298 x 575 x 575 → | | | ← 298 x 825 x 825 → |
| Weight | kg | 19 | 20 | 20 | 41 | 43 | 46 | 19 | 20 | 20 | 46 |
| Grille - Dimension H x L x D | mm | ← 30 x 720 x 720 → | | | ← 30 x 960 x 960 → | | | ← 30 x 720 x 720 → | | | ← 30 x 960 x 960 → |
| Weight | kg | ← 2.5 → | | | ← 5.0 → | | | ← 2.5 → | | | ← 5 → |
| Power Supply | V-ph-Hz | ← 230 - 1 - 50 → | | | ← 230 - 1 - 50/400 - 3 - 50* → | | | ← 230 - 1 - 50 → | | | |

The above data refer to Eurovent Conditions. Cooling conditions: 27°C Dry bulb/19°C Wet bulb air temperature; 7°C/12°C entering and leaving water temperature at high fan speed. Heating conditions 2 pipes: 20°C air temperature, entering water temperature: 50°C, same water flow rate as in cooling condition test at high fan speed.

Heating conditions 4 pipes: 20°C air temperature, 70°C/60°C entering and leaving water temperature at high fan speed.

Sound pressure is measured in a 100 m³ room with 0,5 sec reverberation time.

* Required for electric heaters only.

TECHNICAL DATA 42GW



Quality Management System
Carrier Spa - Villasanta (Italy)



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. All indoor units come with Eurovent certification.



A member of the United Technologies Corporation family

Order No.: 18134-20 - 03/2002
Supersedes order No.: 18134-20 02/2001
Manufacturer reserves the right to change any product specifications without notice.