

Airovision is a modular construction that can be fully customised to provide the required performance for any application. The special new casings encompass only high-quality components including filters, heat recovery systems, fan assemblies, cooling and heating coils, humidifiers and attenuators. The new Airovision range also pays special attention to air quality and in the reduction of energy required to cool, heat, humidify and supply the conditioned air.



Airovision the right solution for any application

Wide product range

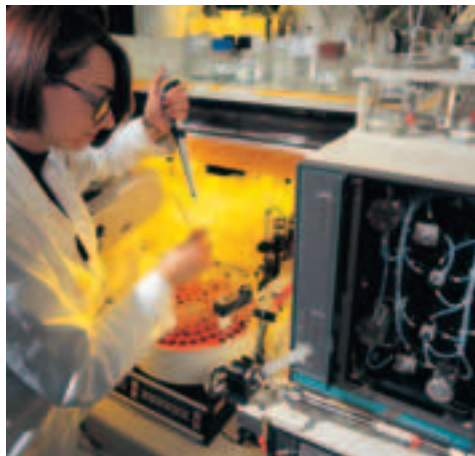
Carrier Holland Heating specialises in the design and production of air handling units for many different applications.

Wide application range

Our products have been used for generations in a wide range of market sectors.

In all these applications they have clearly proven their ability to meet the varying requirements and long term functional reliability.

Carrier Holland Heating has played an active role in creating optimised air treatment for installations in leisure and event complexes, such as sports halls, stadiums, theatres, museums, libraries, as well as oil drilling rigs, airports, cruise ships and hotels.



You will also come across Carrier Holland Heating products in the offices of many major worldwide companies and Government institutions, as well as shopping centres, supermarkets, department stores and educational establishments.

In addition Carrier Holland Heating air handling units are also widely used throughout the Health Care sector and also in specialist applications where stringent hygiene requirements are required, such as clean rooms and specific production processes.



holland heating

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AeroVision

Air handling units

**The new vision
in air treatment**



Carrier
holland heating

Environmentally friendly

Optimum energy efficiency

Air leakage Class B standard

High corrosion resistance

A customised Airovision unit for each application

The standard product range includes 120 different sizes with a nominal selection range between 0.5m³/s and 35m³/s*. Within the preferred range the sizes increase in air flow steps of approximately 12%.

This allows an optimised selection for each air volume and component combination.

A 100% stainless steel version of the Airovision air handling unit is also available.

Modular construction

Dimensional flexibility

High-quality components

Easy to maintain

Airovision

the road to ideal climate



Carrier Holland Heating "Best in Class"

Since founded in 1955 Carrier Holland Heating has grown to be one of the leading air handling equipment manufacturers in Europe. The 25,000m² manufacturing facility in Waalwijk, The Netherlands provides the main base for all Research and Development, Product Engineering and Manufacture of all Air Handling units along with new associated innovative products for all its home and export markets. Our equipment is used in buildings to supply the right climate conditions for people and products. Intensive research by Carrier Holland Heating has led to the development of various patents, many of which are still applied to the air treatment processes today.

Rigid construction

- ① Carrier Holland Heating Profiled steel frame construction with purpose built corner and centre posts
- ② Panels with 60 mm thick thermal insulation
- ③ Robust base frame made of galvanised steel box profile

High corrosion resistance

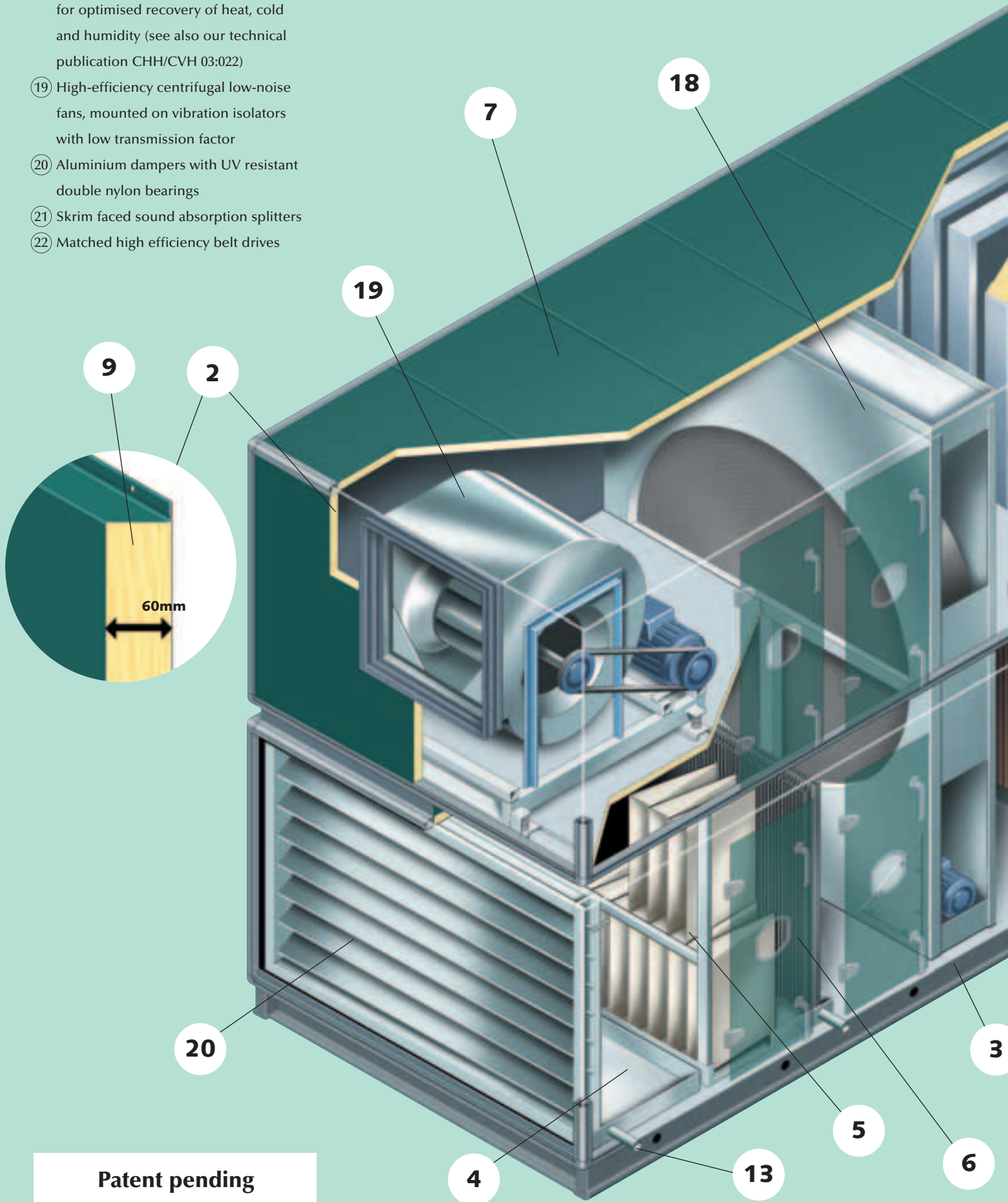
- ④ 316L stainless steel drain pan with PVC wall lining in the outside air inlet section and filter section (option)
- ⑤ Filters held in 316L stainless steel frames
- ⑥ Anti-corrosion screen available
- ⑦ Internal & External panels high build polyester coated steel
- ⑧ Cooling coils with integrated stainless steel drain pan and plastic droplet eliminator housed in an aluminium frame
- ⑨ The special panel design and frame detail eliminates the chance of condensation forming in the panels

Easy maintenance

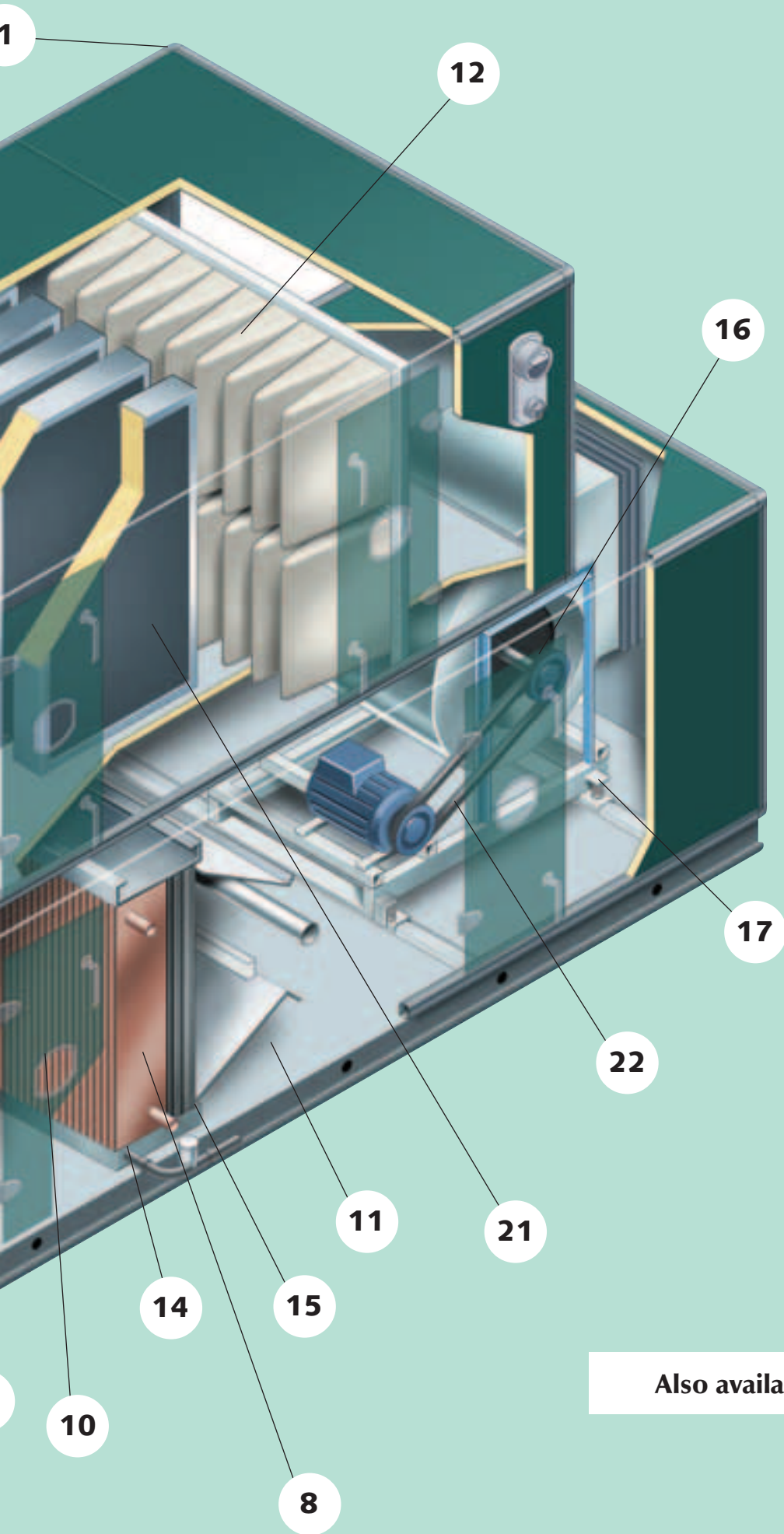
- ⑩ Various inspection options with generously sized clear opening access doors
- ⑪ Completely smooth internal surfaces
- ⑫ Filters easily removable
- ⑬ Drain pan in the outside air inlet section and filter section equipped with drain (option)
- ⑭ Cooling function optional with sloping drain pan
- ⑮ Moisture eliminator after the cooling coil easily removable
- ⑯ Long-life fan and motor bearings
- ⑰ Fans removable from the side

High-quality built-in components

- ⑱ Special sorption heat recovery wheels for optimised recovery of heat, cold and humidity (see also our technical publication CHH/CVH 03:022)
- ⑲ High-efficiency centrifugal low-noise fans, mounted on vibration isolators with low transmission factor
- ⑳ Aluminium dampers with UV resistant double nylon bearings
- ㉑ Skrim faced sound absorption splitters
- ㉒ Matched high efficiency belt drives



Patent pending



Environmentally friendly

- ✓ No paint treatment required after the production process
- ✓ Use of fully recyclable components
- ✓ Low energy usage due to optimised component selection and superior casing characteristics
- ✓ High efficiency heat recovery systems available

Technical specification (in accordance with EN1866)

- ✓ Thermal transmittance coefficient class T2
- ✓ Thermal bridging factor class TB 2
- ✓ Air tightness class B
- ✓ Mechanical strength class 2A
- ✓ Filter bypass leakage
 - class F7 for standard slide-in construction
 - class F9 for special slide-in construction
 - class F9 for built-in construction

Options

- ✓ 100% stainless steel
- ✓ Direct-drive fans
- ✓ All types of humidification systems including infrasonic
- ✓ Flat pack option for site assembly
- ✓ Heat recovery systems (run around coil, plate heat exchanger and thermal wheels)
- ✓ Wide selection of standard accessories
- ✓ 316L stainless steel drain pan with PVC wall lining in the outside air inlet section and filter section
- ✓ Cooling coil drain tray fully accessible for cleaning/disinfection

Also available in 100% stainless steel

Range **Airovision** Central station air handling units

| width module height | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 |
|---------------------|---|---|------------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|------|
| 2.5 | 2 | 3 | 4 | | | | | | | | | | | | | | | | | | | |
| 4 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | | | | | | | | | | | | | |
| 6 | 6 | 8 | 9 | 11 | 12 | 14 | 15 | 17 | 18 | 20 | 21 | 23 | 24 | 26 | 27 | | | | | | | |
| 8 | | | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 32 | 34 | 36 | 38 | 40 | 42 | 44 | 46 | 48 | |
| 10 | | | | | 20 | 23 | 25 | 28 | 30 | 33 | 35 | 38 | 40 | 43 | 45 | 48 | 50 | 53 | 55 | 58 | 60 | 63 |
| 12 | | | | | | 27 | 30 | 33 | 36 | 39 | 42 | 45 | 48 | 52 | 54 | 57 | 60 | 63 | 66 | 69 | 72 | 75 |
| 14 | | | | | | | | | 42 | 46 | 49 | 53 | 56 | 60 | 63 | 67 | 70 | 74 | 77 | 81 | 84 | 88 |
| 16 | | | | | | | | | | 52 | 56 | 60 | 64 | 68 | 72 | 76 | 80 | 84 | 88 | 92 | 96 | 100 |
| 18 | | | x 1.000 is m ³ /h | | | | | | | | | | | | 81 | 86 | 90 | 95 | 99 | 104 | 108 | 113 |
| 20 | | | | | | | | | | | | | | | | | 100 | 105 | 110 | 115 | 120 | 125* |

Preferred range

Combination with heat recovery

Other sizes

*Note: larger sizes possible

Module dimension: 160 mm

External width: n x module plus 98 mm

External height: n x module plus 98 mm

Support height: 160 mm or 62 mm

Example: type 39HQ12.10

Width: 12 x 160 plus 98 = 2018 mm

Height: 10 x 160 plus 98 = 1698 mm

Nominal air flow: 8.5m³/s

Carrier Holland Heating Your partner for total solutions



Strong in service and refurbishment

- Assembly of units on-site, from either modular sections or flat pack
- Service of all air handling unit components.
- Supply of consumables for maintenance.
- Inspections and advice on solving new/replacement plant issues
- Complete refurbishment of existing air handling units.
- Installation of new or upgraded components into existing air handling units.
- On site maintenance
- Fully qualified site personnel



Setting the standard in product innovation Carrier Holland Heating Waalwijk

- Knowledge centre ("Centre of Excellence & Competence") for air handling units inside Carrier.
- Development of a quality assured and tested standard of central station air handling units to meet the worldwide sales market
- Partnering, testing and evaluation of out-sourced components for compatibility with CHH product ranges.
- Technical support for all CHH sales, engineering and service departments
- Development of company software programs for selection and evaluation of all components
- Participation in the development and maintenance of international European standards (EN 1886, EN 13053)
- Active participation in the compilation of various Eurovent publications on central station air handling stations (WG 6C) such as "LCC Guidelines for Air Handling Units" and "Guidelines for the Calculation of Energy Consumption of Air Handling Units"
- Representing Carrier at the Eurovent Certification Programme for Air Handling Units with the primary objective of developing initiatives to improve the quality and integrity of the standards