Air Handling Units 39 HQ
Airovision

The new vision in air treatment
Best in class

A customized Airovision unit for each application

The standard product range includes 122 different sizes with a nominal selection range between 0,5 m³/s and 35 m³/s. Within the range the sizes increase in air flow steps of approximately 12%. This allows an optimised selection for each air volume and component combination.

- Air leakage class B standard (EN1886)
- Optimum energy efficiency
- High corrosion resistance
- Modular construction
- High-quality components
- Easy to maintain
- Dimensional flexibility
- Environmentally friendly
Rigid Construction
1. Profiled steel frame construction with purpose built corner and centre posts
2. Panels with 60mm thick thermal insulation
3. Robust base frame made of galvanised steel box profile

High Corrosion Resistance
4. Corrosion resistant filter frames
5. Polyester coated galvanised steel external panels; Galvanized steel or Polyester coated galvanized steel or Stainless steel internal panels
6. Cooling coils with integrated stainless steel drain pan and plastic droplet eliminator
7. The special panel design and frame detail eliminates the chance of condensation forming in the panels

Easy Maintenance
8. Various inspection options with generously sized clear opening access doors
9. Completely smooth internal surfaces
10. Filters easily removable
11. Cooling function optional with sloping drain pan
12. Moisture eliminator after the cooling coil easily removable
13. Long-life fan and motor bearings
14. Fans removable from the side

High-quality Built-in Components
15. Heat Recovery Wheels
16. High-efficiency centrifugal low-noise fans, mounted on vibration isolators with low transmission factor
17. Dampers
18. Sound absorption splitters
19. Matched high efficiency belt drives

Patent No: 03257611.8-2303
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 EN1886)
✓ Thermal transmittance coefficient class T2
✓ Thermal bridging factor class TB2
✓ 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
✓ Stainless steel
✓ All types of humidification systems
✓ Flat pack option for site assembly
✓ Heat recovery systems (run around coil, plate heat exchanger and thermal wheels)
✓ Wide selection of standard accessories
✓ Cooling coil drain tray fully accessible for cleaning/disinfection
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.

**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 has played an active role in creating optimised air treatment for installations in leisure and event complexes, such as sport halls, stadiums, theatres, museums, libraries, as well as oil drilling rigs, airports, cruise ships and hotels. You will also come across Carrier 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 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.
### Setting the standard in product innovation: Carrier

- 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 Carrier air handling units
- Technical support for sales 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 units (WG6C) 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

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* Note: Larger sizes possible

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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
Exsample type: 39HQ12.10
Width: 12 x 160 plus 98 = 2018 mm
Height: 10 x 160 plus 98 = 1698 mm
Nominal air flow: 8.5 m³/s
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