

# PRODUCT CATALOGUE



PROVIDING **GLOBAL SYSTEM** SOLUTIONS

**MODULAR AIR  
HANDLING UNIT  
SENATOR 50**

Senator 50



CE

## INTRODUCTION TO THE RANGE

- Modular unit
- 14 sizes from 500 to 97.200 m<sup>3</sup>/hr
- Structure: framework reinforced with an Aluzinc section structure and aluminium corners
- 50 mm double wall with rock wool (65 kg/m<sup>3</sup>)
- Smooth wall, easily cleaned steel interior
- Lacquered paint finish - RAL 9002
- Filtration G2 to F8 and H13 + active carbon
- High-efficiency forward or backward fans
- IP55 class F motor + thermal protection
- Recovery section for all systems
- Detailed technical specifications available on request
- Conforms to EN 1886 standard

## CONSTRUCTION

- The SENATOR 50 unit can cover the full range of air treatment and recovery functions, with components selected for their excellent performance and reliability.
- The system of Aluzinc sections and aluminium corners provides a rigid and robust framework, complemented by a high level of insulation and air-tightness. The use of pre-lacquered sheet outer panels gives the unit a particularly pleasing appearance and provides excellent corrosion resistance

## OPTIONS AND ACCESSORIES

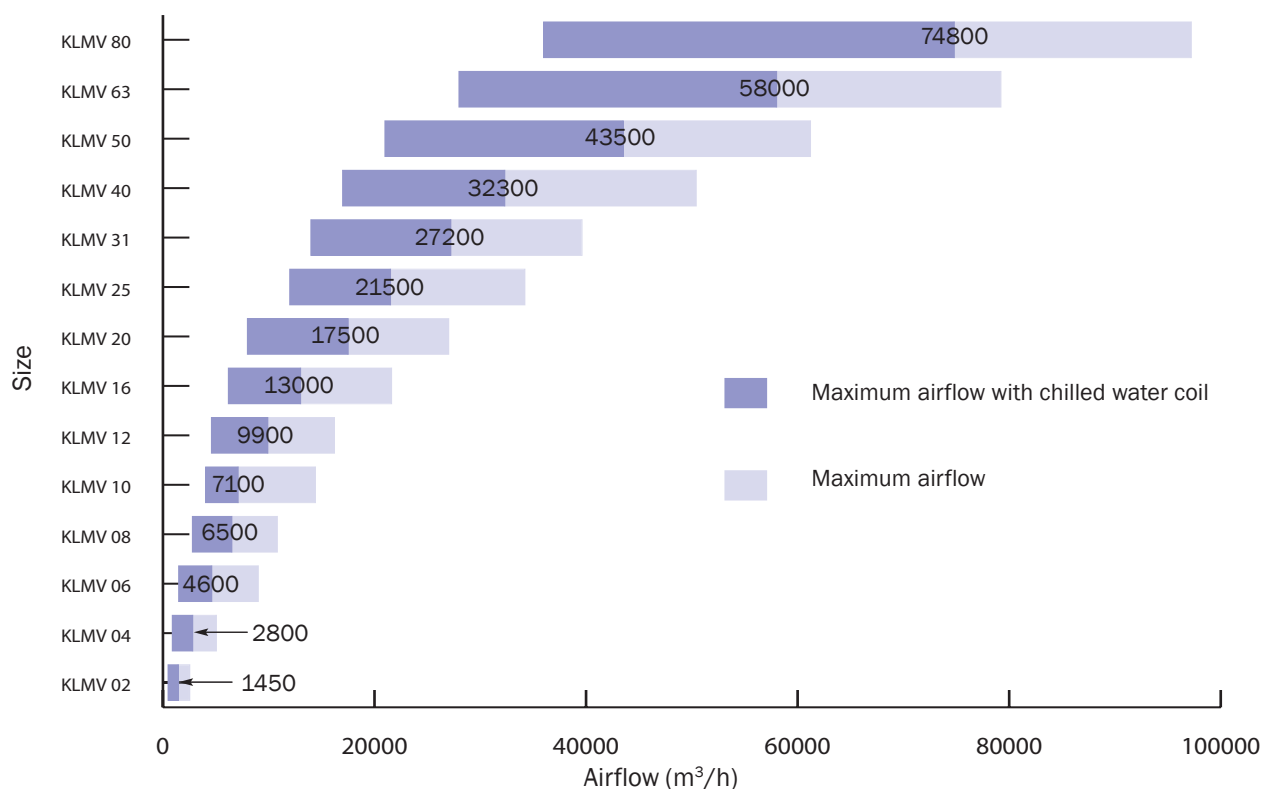
- Exterior installation (roof, cowl)
- Pressure inlets
- Vents
- Lighting

SENATOR 50 - 500 → 97 200 m<sup>3</sup>/h

## □ GENERAL DATA

| AIR HANDLING UNIT      | KLM V  | 02      | 04      | 06       | 08       | 10        | 12        | 16        |
|------------------------|--|---------|---------|----------|----------|-----------|-----------|-----------|
| <b>Quick selection</b> |  |         |         |          |          |           |           |           |
| Minimum airflow        | m <sup>3</sup> /h  | 500     | 900     | 1500     | 2800     | 4050      | 4600      | 6200      |
| Maximum airflow        | m <sup>3</sup> /h  | 2520    | 5040    | 9000     | 10800    | 14400     | 16200     | 21600     |
| Section                | mm x mm  | 715x470 | 715x715 | 1020x715 | 1325x715 | 1020x1020 | 1325x1020 | 1635x1020 |
| <b>Insulation</b>      |  |         |         |          |          |           |           |           |
| Thickness              | mm   | 50      |         |          |          |           |           |           |
| Insulation material    | Mineral wool (65kg/m <sup>3</sup> )  |         |         |          |          |           |           |           |
| Heat transfer ratio    | W/m <sup>2</sup> °C  | 0,78    |         |          |          |           |           |           |
| <b>Structure</b>       |  |         |         |          |          |           |           |           |
| Profiles               | Galvanized steel profil  |         |         |          |          |           |           |           |
| Corners                | Aluminium  |         |         |          |          |           |           |           |
| Panels                 | Inside : Glavanized steel / Outside : Glavanized steel pre-enamed RAL 9002 |         |         |          |          |           |           |           |
| <b>Classification</b>  |  |         |         |          |          |           |           |           |
| Casing strength        | Classe 1A  |         |         |          |          |           |           |           |
| Casing air leakage     | Classe B   |         |         |          |          |           |           |           |
| Thermal transmittance  | Classe T2  |         |         |          |          |           |           |           |

| AIR HANDLING UNIT      | KLM V  | 20        | 25        | 31        | 40        | 50        | 63        | 80        |
|------------------------|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| <b>Quick selection</b> |  |           |           |           |           |           |           |           |
| Minimum airflow        | m <sup>3</sup> /h  | 8000      | 12000     | 14000     | 17000     | 21000     | 28000     | 36000     |
| Maximum airflow        | m <sup>3</sup> /h  | 27000     | 34200     | 39600     | 50400     | 61200     | 79200     | 97200     |
| Section                | mm x mm  | 1635x1325 | 1940x1325 | 1940x1635 | 2245x1635 | 2550x1940 | 2860x2245 | 3160x2550 |
| <b>Insulation</b>      |  |           |           |           |           |           |           |           |
| Thickness              | mm   | 50        |           |           |           |           |           |           |
| Insulation material    | Mineral wool (65kg/m <sup>3</sup> )  |           |           |           |           |           |           |           |
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Note: The minimum and maximum flow rates for each machine are shown in the table above. The values shown are the maximum flow rates with the chilled water coil



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**SENATOR50-PCA-0404-E**

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