

CMEV air handling unit

11061086

VEX525-C4

VEX500-C4 is the air handling unit solution for bedrooms. It delivers a very good indoor air quality, a high level of comfort and restricts energy losses to a minimum.



PRODUCT BENEFITS

- the safety of C4 blended with the benefits of very high efficiency air handling (up to 95%),
- exclusive Aldes Smart Control® system,
- optimum air quality and thermal comfort.

REGULATIONS AND COMPLIANCES

Eurovent Certification no. : 13.03.001

Principles of operation

VEX500-C4 brings fresh, filtered air (up to 90% of PM1) into the building and recovers heat from exhaust air using its very high-efficiency heat exchanger. The incoming air can be heated and/or cooled using a full range of coils.

Product description

VEX500-C4 is the ideal high-performance solution for multi-occupancy housing and non-residential accommodation. Thanks to its very high-performance heat exchanger, its wide range of filters and coils, building occupants enjoy very good indoor air quality (up to ePM1 90%) alongside excellent thermal and acoustic comfort. VEX500-C4 also severely restricts energy losses to a minimum (up to 95% efficiency on Eurovent AAHE-certified heat exchanger).

Fields of application

Multi-occupancy residential housing, New, Refurbishment, Non-residential buildings

Installation

- equipment rooms / flat roofs,
- indoors / outdoors,
- in-line duct connections,
- rectangular connectors (circular adapters available as accessories),
- choice of utility connections side - left or right.

Reference arguments

- VEX525-C4 monobloc air handling unit with horizontal connection,
- C4 fire certification,
- High-efficiency counterflow plate heat exchanger (AAHE certified),
- EC motor and backward curve impellers,
- 1300 m³/h,
- 50 mm dual skin insulation,
- Filtration up to ePM1 90%,
- 100% adjustable bypass,
- Anthracite grey access panel,
- Multiple possibilities for built-in coils,
- Aldes Smart Control system,
- Integrated web server,
- BMS via Modbus RTU and Bacnet TCP/IP
- Available in pre-coated version.

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Main characteristics

- C4 solution: 400 °C 1/2 hour (Ø 160mm)
- pre-wired monobloc unit featuring self-supporting construction with dual-wall panels,
- 50 mm mineral wool insulation, density 40 kg/m³,
- high-efficiency counterflow plate heat exchanger up to 95% (AAHE-certified),
- EC motor and high-performance backward curve impeller,
- 100 % and adjustable bypass control,
- G4 filters (Coarse 60%) on exhaust, F7 (ePM1 60%) on fresh air,
- optional: M5 (ePM10 50%), F9 (ePM1 90%),
- wide range of coils,
- built-in switch,
- Aldes Smart Control® system:
 - constant speed,
 - constant airflow,
 - constant pressure,
 - variable airflow according to CO2/VOC probe (0-10V signal)
 - pressure control: adapts pressure to airflow measured, for very high energy efficiency,
 - built-in clock: timer control,
- configuration & monitoring via:
 - remote touch-screen control,
 - web server,
 - BMS via ModbusRTU, Bacnet, TCP/IP.
- defrosting by electrical coil on exhaust air or by imbalancing the bypass.

Supplementary characteristics

- coil options:
 - electrical,
 - electrical post-heating,
 - hot water with or without 3-way valve,
 - cold water with or without 3-way valve,
 - reversible (hot/cold) water with or without 3-way valve.
- aluminium or galvanised steel + paint condensate collection tray on heat exchanger,
- monobloc roof piece fitted in factory for outdoor versions,
- access to all components on the main panel via hinged, removable doors, and to control system via a specific central hatch,
- steel access doors pre-coated in dark grey (RAL 7016),
- galvanised steel or pre-coated external finish (RAL 9006) depending on the version,
- M0 interior finishes made of Z275 galvanised steel.

Accessories

| Description | Variants |
|--|----------|
| VEX525 rain hood | 11069033 |
| Flexible sleeve rectangular/circular D355 VEX525 | 11069049 |
| Rigid adapter piece VEX525 | 11069041 |
| Flexible sleeve MS Pro rectangular 510x310 mm VEX525 | 11069089 |
| Flat adapter piece rectangular-circular VEX525 and VEX525-C4 | 11069199 |

Filters

| Description | Variants |
|---------------------------|----------|
| F7 flat filter kit VEX525 | 11069057 |
| G4 flat filter kit VEX525 | 11069065 |
| M5 flat filter kit VEX525 | 11100731 |
| F9 flat filter kit VEX525 | 11100739 |

Associated services

Commissioning

General data

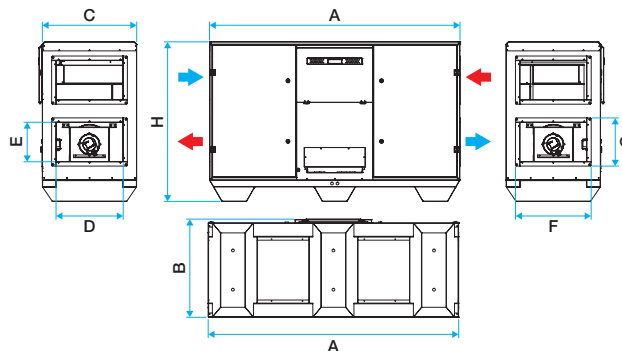
| Variants | Insulation density (kg/m ³) | Thickness of insulation (mm) | Type of motor |
|----------|---|------------------------------|---------------|
| 11061086 | 40 | 50 | EC |

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Dimensional data

| Variants | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | F (mm) | G (mm) | H (mm) | Weight (kg) |
|----------|--------|--------|--------|--------|--------|--------|--------|--------|-------------|
| 11061086 | 1823 | 769 | 704 | 510 | 310 | 540 | 340 | 1161 | 239 |



Dimensions are given as a guide only. Make your selection in the Selector VEX software to obtain the actual characteristics of your unit.

Airflow data

| Variants | Minimum airflow | Max. airflow (m³/h) |
|----------|-----------------|---------------------|
| 11061086 | 260 | 1300 |

Heat recovery data

| Variants | Max. exchanger output (%) | Max. current absorbed (kW) |
|----------|---------------------------|----------------------------|
| 11061086 | 95 | 0,856 |

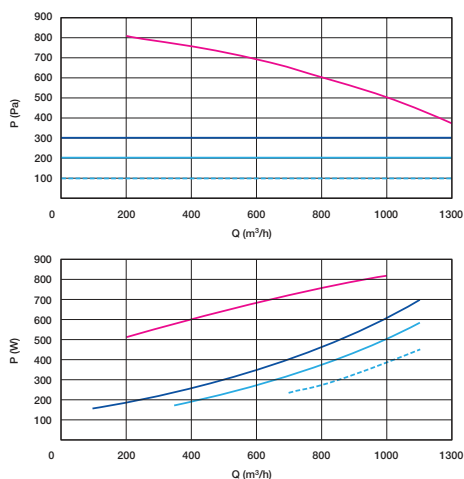
Electrical datas

| Variants | Electrical coil voltage 1 | Max. power of electrical coil 1 (kW) | Max. electrical output of unit (kW) | Unit voltage (V) |
|----------|---------------------------|--------------------------------------|-------------------------------------|------------------|
| 11061086 | 3x400 | 3.74 | 0,98 | 230 |

Regulatory data

| Variants | Test values as per standard EN 1886 |
|----------|-------------------------------------|
| 11061086 | D1, L2, F7, T3, TB2 |

Curve



> Aeraulic curves drawn up as per standard NF EN ISO 5801.

> P (Pa) = static pressure.

> P (W) = power consumption.