

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.



VEX500-C4

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.

REGLEMENTATIONS 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

Désignations	References
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

Consumables

Désignations	References
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

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

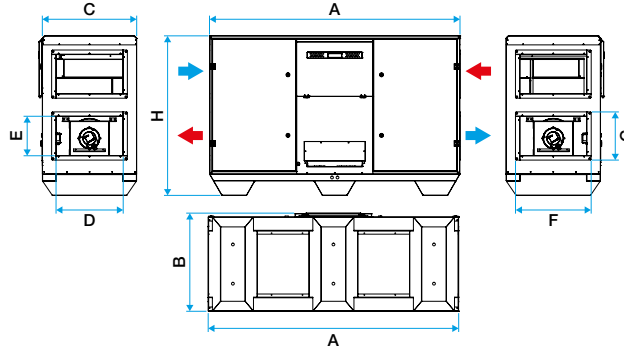
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Dimensional data

References	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 VEX500-C4

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

References	Minimum airflow	Max. airflow (m³/h)
11061086	260	1300

Thermal data

References	Max. exchanger output (%)	Max. current absorbed (kW)
11061086	95	0,856

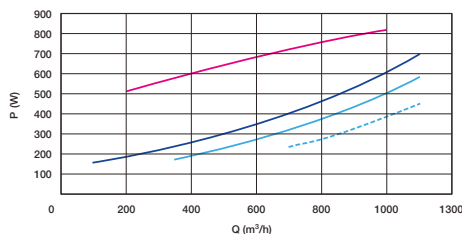
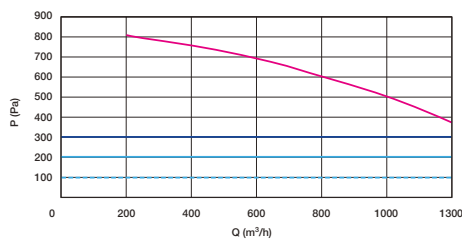
Electrical datas

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

Regulatory data

References	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.

Airflow and power VEX525-C4