Air handling unit

11069287
VEX570-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.

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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
VEX570 rain hood	11069038
Flexible sleeve rectangular/circular D630 VEX570	11069054
Rigid adapter piece VEX570	11069046
Flexible sleeve MS Pro rectangular 1210x510mm VEX570	11069094

Consumables

Désignations	References
ePM1 flat filter kit 60% (F7) for VEX570	11069062
G4 flat filter kit VEX570	11069070
M5 flat filter kit VEX570	11100734
F9 flat filter kit VEX570	11100744
G4 pre-filter kit VEX570 pre-21/02/2018	11069086
F7 HE flat filter kit VEX570 AN	11069078

Options

base
C69381
CO2

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Options

DEBCON
E69389
EXTENSION
EXTER
F69381
F7
F7+F9
FILAIRE
G4+F9
G4_S
G69370
HAUTEFF
L69370
M5+F7
M5+F7HE
M5+F9
M5_R
M5_S
PRECON
PREDEBCON
PREFILTRE
PREFILTRE2
PRESS
S69370
S69381
S69389
TACTILE
ZAS024

Associated services

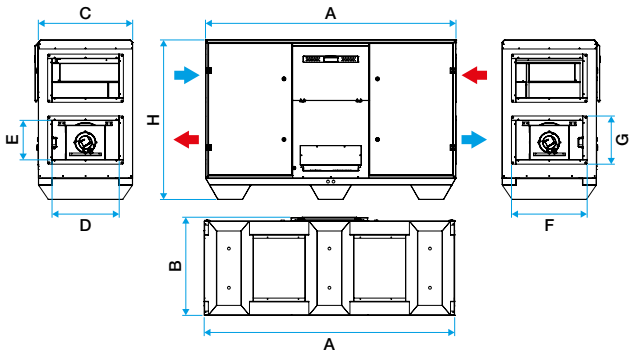
Commissioning

General data

References	Insulation density (kg/m³)	Thickness of insulation (mm)	Available filters	Connection direction	Type of exchanger	Type of motor	Type of impeller
11069287	40	50	Coarse 65%, ePM10 50%, ePM1 60%, ePM1 90%	Horizontal	With plates	EC	Backward curve

Dimensional data

References	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	Weight (kg)
11069287	2502	1569	1540	1210	510	1240	540	1693	660



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.

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Airflow data

References	Minimum airflow	Max. airflow (m³/h)
11069287	1100	5500

Thermal data

References	Max. exchanger output (%)	Max. current absorbed (kW)
11069287	95	4,131

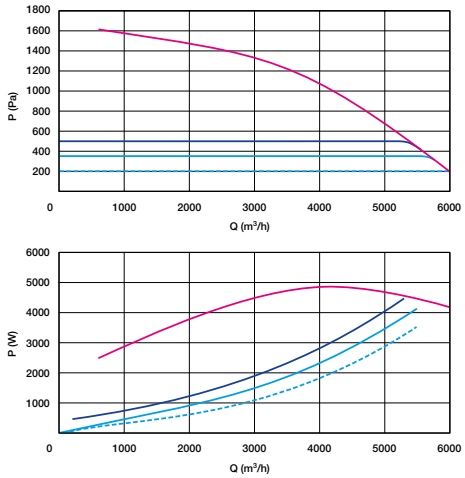
Electrical datas

References	Max. power of electrical coil 1 (kW)	Max. electrical output of unit (kW)	Electrical coil voltage 1	Unit voltage (V)
11069287	18.7	5	3x400	400

Regulatory data

References	Test values as per standard EN 1886
11069287	D1, L2, F7, T3, TB2

Curve



Airflow and power VEX570-C4

> Aeraulic curves drawn up as per standard NF EN ISO 5801.
> P (Pa) = static pressure.
> P (W) = power consumption.