Air handling unit

11069010
VEX610

VEX600 is the air handling unit solution with a small footprint. It delivers a very good indoor air quality, a high level of comfort and restricts energy losses to a minimum.

VEX600

PRODUCT BENEFITS

- air handling units producing very high efficiency (up to 95%),
- optimal air quality and thermal comfort,
- excellent acoustic performance,

REGLEMENTATIONS AND COMPLIANCES

Eurovent Certification no. : 13.03.001

Principles of operation

VEX600 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

VEX600 is the ideal high-performance solution for non-residential buildings where floor space is at a premium. 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. VEX600 also severely restricts energy losses to a minimum (up to 95% efficiency on Eurovent AAHE-certified heat exchanger).

Fields of application

New, Refurbishment, Non-residential buildings

Installation

- equipment rooms/ cabinets,
- indoors,
- vertical duct connections,
- rectangular connectors (circular adapters available as accessories).

Main characteristics

- pre-wired monobloc unit featuring self-supporting construction with dual-wall panels,
- duct connections on top of unit,
- 50 mm mineral wool insulation, density 40 kg/m³,
- high-efficiency counterflow heat exchanger up to 95% (AAHE-certified),
- EC motor and high-performance backward curve impeller,
- 100 % and adjustable bypass control,
- G4 filter (Coarse 60%) on exhaust, F7 (ePM1 60%) on fresh air,
- optional: M5 (ePM10 50%), F9 (ePM1 90%),
- optional 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,
- built-in webserver,
- BMS via ModbusRTU, Bacnet, TCP/IP.

- de-icing by electrical coil on exhaust air or by controlled bypass opening

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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,
- 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
Sens CO2 sensor	11017090
Flexible sleeve MS Pro rectangular/circular insulated VEX610 D250	11068349
Flexible sleeve MS Pro rectangular/circular VEX610 D250	11068417
Rigid adapter piece VEX610	11068431
MOTOR DAMPER INS XV600	11068452
Ambient temp° transmitter	11069100
Motor Sfa-S2 On/Off 24/230V	11055045
Standalone detector trip device 230/24V	11906103
Smoke sensor	11058417

Consumables

Désignations	References
F7 flat filter kit VEX410 AN 610	11100289
G4 flat filter kit VEX410/610	11100291
F7 HE filter kit VEX610 AN	11100293
F9 flat filter kit VEX610	11100746
FILTER KIT M5 FLAT EPM10 50% VEX410 VEX610	11100552

Options

base
F7+F9
G4+F9
M5+F7
M5+F9
M5_R
M5_S
C78960
CO2
DEBCON
E68413
E78659
F7
F78960
FILAIRE
G4_S
G68454
HAUTEFF
L68454
M5+F7HE
PRECON
PREDEBCON
PREFILTRE
PREFILTRE2

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Options

PRESS
S68413
S68454
S78659
S78960
TACTILE

Associated services

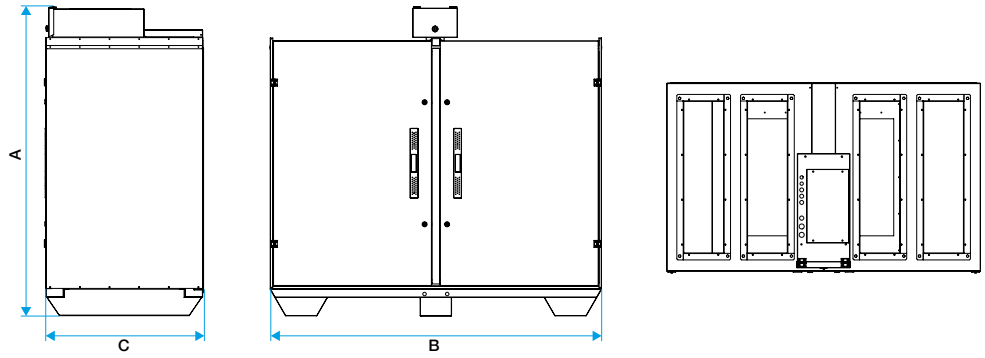
Commissioning

General data

References	Insulation density (kg/m³)	Thickness of insulation (mm)	Available filters	Connection direction	Type of exchanger	Type of motor	Type of impeller
11069010	40	50	Coarse 65%, ePM10 50%, ePM1 60%, ePM1 90%	Vertical	With plates	EC	Backward curve

Dimensional data

References	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	Weight (kg)	Connection h (mm)	Connection l (mm)
11069010	1269	1200	570	435	190	165	190	435



Dimensions VEX600

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

Airflow data

References	Max. airflow (m³/h)
11069010	650

Thermal data

References	Max. exchanger output (%)	Max. current absorbed (kW)
11069010	95	0,5

Electrical datas

References	Max. power of electrical coil 1 (kW)	Max. electrical output of unit (kW)	Electrical coil voltage 1	Unit voltage (V)
11069010	1.7	0,48	3x400	230

Regulatory data

References	Test values as per standard EN 1886
11069010	D1, L2, F7, T3, TB2

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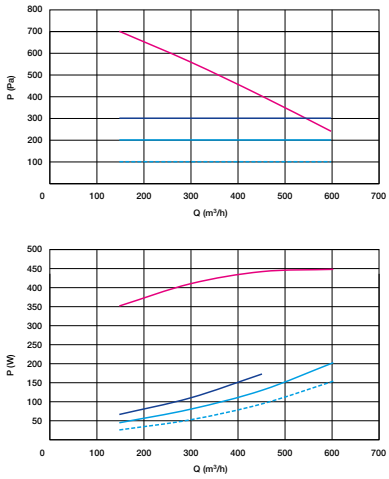
Curve



Airflow and power VEX610

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