11050320
VEX610 Pre-coated

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.

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

REGULATIONS 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).

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

Reference arguments
- VEX610 monobloc air handling unit, vertical connection.
- High-efficiency counterflow plate heat exchanger (AAHE certified).
- EC motors and backward curve impellers.
- 600 m³/h.
- 50 mm dual skin insulation.
- Filtration up to ePM1 90%.
- 100% adjustable bypass.
- Pre-painted finish and 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.

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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

Description	Variants
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
MOTOR SHUT-OFF DAMPER VEX420/520	11069016
Temperature sensor, Modbus, room P_ACCESSORIES_DFE1106910-1 P_ACCESSORIES_DFE1106910-2 P_ACCESSORIES_DFE1106910-3 P_ACCESSORIES_DFE1106910-4 P_ACCESSORIES_DFE1106911-3 P_ACCESSORIES_DFE1106911-4 P_ACCESSORIES_DFE1106911-5 P_ACCESSORIES_DFE1109026-3 P_ACCESSORIES_DFE1109026-4 P_ACCESSORIES_DFE1109026-5 P_ACCESSORIES_DFE1109026-6 P_ACCESSORIES_DFE1109026-7 P_ACCESSORIES_DFE1109026-8 Optiflex, flex tube Ø90 (antistatic and antibacterial) OPTIFLEX round OPTIFLEX oval duct (antistatic and antibacterial) Optiflex, flex tube Ø75 (antistatic and antibacterial) OPTIFLEX round Optiflex, flex pipe Ø75 (antistatic) Optiflex, flex pipe Ø90 (antistatic) OCTA-Ø160 sound attenuator P_ACCESSORIES_DFE1110014-2	11069100
Motor Sfa-S2 On/Off 24/230V	11055045
Standalone detector trip device 230/24V	11906103
Smoke sensor	11058417
FILTER KIT M5 FLAT EPM10 50% VEX410 VEX610	11100552
F9 flat filter kit VEX610	11100746

Filters

Description	Variants
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

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Options

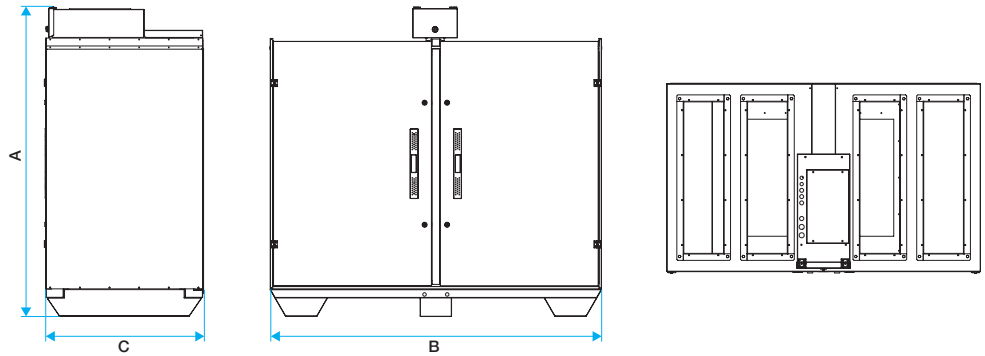
M5_R
M5_S
C78960
CO2
DEBCON
E68413
E78659
F7
F78960
FILAIRE
G4_S
G68454
HAUTEFF
L68454
M5+F7HE
PRECON
PREDEBCON
PREFILTRE
PREFILTRE2
PRESS
S68413
S68454
S78659
S78960
TACTILE

General data

Variants	Insulation density (kg/m³)	Thickness of insulation (mm)	Available filters	Connection direction	Type of exchanger	Type of motor	Type of impeller
11050320	40	50	Coarse 65%, ePM10 50%, ePM1 60%, ePM1 90%	Vertical	Counterflow	EC	Backward curve

Dimensional data

Variants	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	Connection h (mm)	Connection l (mm)	Weight (kg)
11050320	1269	1200	570	435	190	190	435	165



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

Variants	Max. airflow (m³/h)
11050320	650

Heat recovery data

Variants	Max. exchanger output (%)	Max. current absorbed (kW)
11050320	95	0,5

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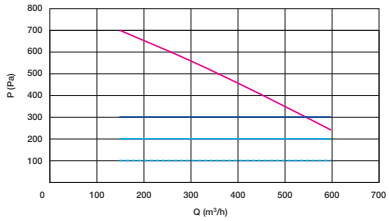
Electrical datas

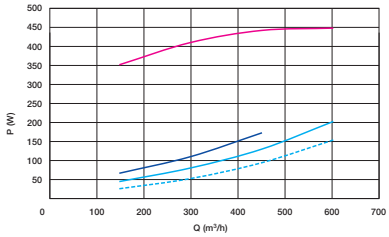
Variants	Electrical coil voltage 1	Max. power of electrical coil 1 (kW)	Max. electrical output of unit (kW)	Unit voltage (V)
11050320	230	1.8	0,48	230

Regulatory data

Variants	Test values as per standard EN 1886
11050320	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.