

Air handling unit

11058008
VEX270

VEX200 is an energy-friendly rotary air handling unit with ALC™ technology that offers indoor air quality at its best, without any compromise.



VEX200 Range

PRODUCT BENEFITS

- automatic leakage control (ALC™)
- flexible duct connection – horizontal, top and bottom
- compact construction for small spaces - monoblock and split as options

REGLEMENTATIONS AND COMPLIANCES

Eurovent Certification no. : 10.12.505

Principles of operation

The VEX 200 brings fresh, filtered air into the building and recovers heat from exhaust air using its high-efficiency heat exchanger. The incoming air can be heated and/or cooled using a comprehensive range of coils.

Product description

VEX200 is a range energy-friendly air handling units with rotary heat exchangers and EC motors. You can choose between two rotor types, standard and high efficiency. Choose ALC™ when you want to secure good indoor environment, ALC™ allows humidity to be transferred, whilst eliminates recirculation of particles, aerosols, viruses, etc. The many versions of the VEX200 range permit a high level of flexibility in installation and location as you can choose spigot location in the unit's end, top and bottom. The units are delivered with integrated control systems, accessed via the connection box on the front of the unit. VEX200 units are delivered either as a complete unit (VEX240-250) or split into sections (VEX260-280).

Fields of application

New, Refurbishment, Non-residential buildings

Installation

- equipment rooms / terraces,
- indoors / outdoors,
- in-line duct connection or choice of two vertical fixings,
- connection via circular or rectangular fixings, depending on model,
- choice of left or right side for equipment fittings.

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Main characteristics

- The ALC™ (Automatic Leakage Control) option is the patented solution that prevents the propagation of viruses by air handling units equipped with rotary heat exchangers. It measures, checks and constantly adjusts the pressure difference between supply and return airflows to ensure that no stale air comes into contact with the clean air produced by the unit.
- Monoblock or multi-block units depending on the model.
- Self-supporting construction with dual-wall panels.
- External finish in Aluzinc AZ185: class 4 anti-corrosion performance.
- 49 mm mineral wool insulation (class A1 as per DIN4102), 65 kg/m³ density.
- EN 1886 values: D2, L2/L2, T2, TB3, F8, F9
- Configurable connections.
- EC motor and Exstream high-performance backward curve impeller,
- Easy to access and maintain: components mounted on slides, adjustment accessible via a specific central hatch.
- 2 choices of efficiency on rotary exchanger (Eurovent AARE) with optional drain zone to preserve indoor air quality.
- 4 choices of exchanger types on request:
 - standard aluminium exchanger,
 - hygroscopic,
 - sorption: ideal for hot and humid climates,
 - epoxy: ideal for corrosive atmospheres (saline).
- Choice of filters to guarantee air quality: flat filters or M5 bag filters (ePM10 50%) and F7 (ePM1 65%) - consult us for other types of filters and pre-filters.
- Built-in switch
- EXact2 controller:
 - constant speed,
 - multi-speed,
- constant pressure,
 - 0-10 V.
- Configuration & monitoring via:
 - wired remote control,
 - option: Webserver and BMS communication via Modbus RTU / RS485, BACnet MSTP / BACnet IP protocols,
 - option: Webserver and BMS communication via a gateway supplied to Modbus TCP-IP or LON protocols.

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Supplementary characteristics

- EXact2 controls:
 - constant speed,
 - multi-speed,
 - constant pressure,
 - 0-10 V.
- configuration and monitoring via:
 - hardwired remote control,
 - option: Webserver and BMS communications via Modbus RTU / RS485, BACnet MSTP / BACnet IP protocols,
 - option: Webserver and BMS communications via a bridge to Modbus TCP / IP or LON protocols.

Accessories

Désignations	References
Smoke sensor	11058417
Standalone detector trip device 230/24V	11906103
MOTOR SF24A-S2 ON/OFF	11055064

Consumables

Désignations	References
Bag filter kit M5 L=520 VEX270 EMB	11100602
Bag filter kit F7 L=520 VEX270 EMB	11100603
Pleated filter kit M5 thickness=96 VEX270	11100604
Pleated filter kit F7 thickness=96 VEX270	11100605

Associated services

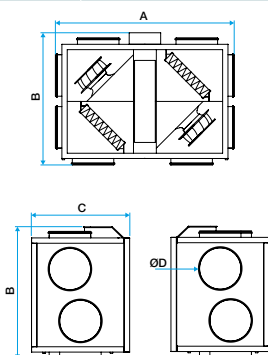
Commissioning

General data

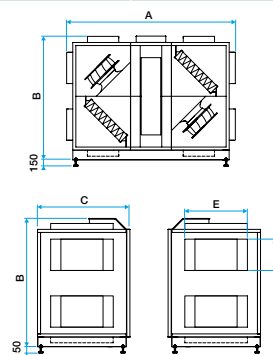
References	Insulation density (kg/m ³)	Thickness of insulation (mm)	Rotary stepper motor – Phase current	Rotary stepper motor – Power consumption	Rotary stepper motor – Over-current protection	Rotary stepper motor – Control (built in rotation monitor)	Voltage input	Motor class in accordance with IEC TS 60034–30–2	Current overload protection	Regulation
11058008	65	50	0,2	45	Indbygget	230	3 x 400	IE5 (Ultra Premium Efficiency)	Indbygget	Trinløs via motorstyring (MC)

Dimensional data

References	A (mm)	B (mm)	C (mm)	E (mm)	F (mm)	Weight (kg)	Vægt for indtransport
11058008	2050	1525	1905	1000	500	750	Ventilatorsektioner: 2 x 170,5 kg, Rotorsektion: 187 kg



Dimensions VEX240 / VEX250



Dimensions VEX260 / VEX270 / VEX280

Airflow data

References	Minimum airflow	Max. airflow ErP (m ³ /h)	Airflow (m ³ /h)	Max. airflow (m ³ /h)
11058008	1400	7020	7186	8910

Thermal data

References	Max. exchanger output (%)	Max. current absorbed (kW)
11058008	90	17

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Electrical datas

References	Frequency (Hz)	Max. current consumption THREE-PHASE 400 V (A)	Max. electrical output of unit (kW)	Voltage (V)	Unit voltage (V)	Maximum current – unit (A)
11058008	50	17	9,3	3x400	400	17

Regulatory data

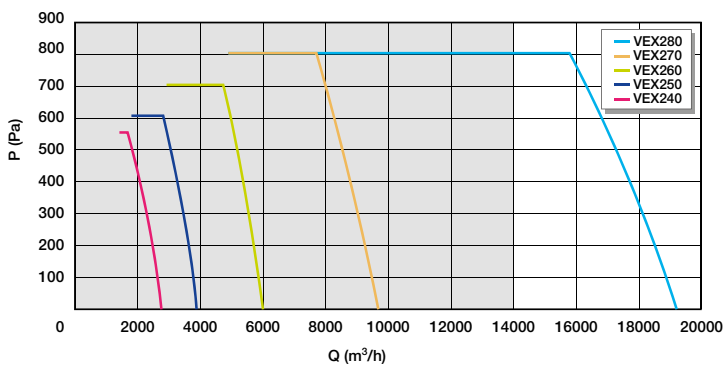
References	Test values as per standard EN 1886	Ventilation energy class – Average climate
11058008	D1, L1, L1, F9, T2, TB3	A

Principe de fonctionnement

VEX500 operation

Curve

The shaded space represents compliance with ERP 2018.



Aeraulic characteristics 270