CMEV air handling unit 11058009 **VEX280**

VEX200 is an energy-efficient air handling unit with rotary heat exchanger and ALCTM technology, which ensures the best indoor air quality without compromise.



PRODUCT BENEFITS

Available as indoor and outdoor model
Optimal air quality and thermal comfort Very low noise level

REGULATIONS AND COMPLIANCES Eurovent Certification no. : 16.01.020

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 of energy-friendly air handling units with rotary heat exchangers and EC motors. You can choose between two rotor types, standard and high efficiency. Choose ALCTM when you want to ensure a good indoor climate. ALCTM allows you to transfer humidity while eliminating 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 units end, top and bottom.

The units are delivered with integrated control systems, that are accessed via the connection box on the front of the air handling unit.

VEX200 air handling units are supplied either as a complete air handling units (VEX240-250) or sectional units (VEX260--280).

Fields of application

New, Refurbishment, Non-residential buildings, Schools

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 ALCTM (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

- Flexible connection to duct system with automatic leakage control (ALCTM):
- Horizontal, top and bottom
- Compact design for small rooms available as a unit or optionally as a SPLIT unit

Accessories

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

Filters

Description	Variants
Bag filter for VEX280 – ePM10 60%	11100606
Bag filter for VEX280 - ePM1 60%	11100607
Panel filter for VEX280 - Coarse 85%	11100608
Panel filter for VEX280 - ePM1 55%	11100609
Panel filter for VEX280, combi – Coarse 60%	12900215
Panel filter for VEX280, combi - ePM1 50%	12900144
Panel filter for VEX280, combi - ePM1 80%	12900145

Associated services

Commissioning

General data

Variants	Rotary stepper motor – Phase current (A)	Rotary stepper motor – Power consumption (W)	Rotary stepper motor – Over– current protection	Rotary stepper motor – Voltage (V)	Voltage input	Motor class in accordance with IEC TS 60034– 30–2	Current overload protection	Regulation	Control signal with control system	Control signal with third party control system
11058009	0,2	45	Eingebaut	230	3 x 400	IE5 (Ultra Premium Efficiency)	Built-in	Variable via motor control (MC)	Modbus	0-10 V DC

Dimensional data

Variants	A (mm)	A1 (mm)	A2 (mm)	B (mm)	C (mm)	Connection, horisontal measurement (mm)	Connection, vertical measurement (mm)	Weight (kg)	Weight for transport
11058009	2160	880	400	1900	2205	1400	600	1102	Fan sections: 2 x 236 kgRotor section: 221 kg









Airflow data

Variants	Minimum airflow	Max. airflow ErP (m³/h)	Airflow (m³/h)	Max. airflow (m³/h)					
11058009	2800	12615	7186	18425					
Heat recovery data									
Variants	Max. exchang	ger output (%)	Max. current a	absorbed (kW)					
11058009	ç	0	30.5						



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Electrical datas

Variants	/ariants Voltage (V) Frequency (H		Max. power of electrical coil 1 (kW)	Max. current consumption THREE– PHASE 400 V (A)		Maximum current – unit (A)		Max. electrical output unit (kW)	Power consumption (kW)	
11058009	3x400	50	46	30,5		30,5		17,6	17,6	
Regulatory data										
Variants	Strengt of unit housing	Tightness at nega pressure of –400	ative Tightness at) Pa pressure of	Tightness at positive pressure of +700 Pa		pass Leakage	The	rmal transmittance	Thermal bridging factor	
11058009	D2	1	1	11		F9		T2	TB3	

Principles of operation



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.

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 units end, top and bottom. Read more under Variations. The units are delivered with integrated control systems, that are accessed is 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).

VEX500 operation

Curve



The shaded space represents compliance with ERP 2018.