

Air handling unit

11058038
VEX330T

VEX300T is an extremely compact air handling unit with top connection and optimal energy performance, with low noise level to the surroundings.



VEX300T Range

PRODUCT BENEFITS

- extremely compact design with top connection,
- built-in cooling/heating coil,
- extremely quiet product for the environment.

REGLEMENTATIONS AND COMPLIANCES

Eurovent Certification no. : 10.12.505

Principles of operation

The VEX 300 T 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

The VEX 300 T is surprisingly compact, thanks in part to the duct connections on the top. In addition, the positioning of the water coil connections (on the top of the unit) and for the condensate drain (at the front of the unit) allows the VEX 300 T to be placed close to other technical equipment, as the side walls do not need to be accessible for maintenance. The VEX 300 T has been built with integrated heating or cooling coils, reducing installation costs. It is also possible to choose pre-filtration of supply air. The design is optimised for compactness, thermal efficiency, airflow and energy consumption. The VEX 300 T is also easy to maintain for filter replacement, cleaning, etc.

Fields of application

Refurbishment, Non-residential buildings

Installation

- equipment rooms/ cabinets,
- indoors,
- vertical duct connections,
- circular connections,
- custom drawings supplied with machine (including accessories).

Main characteristics

- 1 decentralised model - up to 850 m³/h - in 2 versions:
 - visible version (STD),
 - semi-integrated version (INT) for installation in a suspended ceiling.
- Monoblock construction,
- insulation - 20 mm polyurethane for better noise attenuation,
- external finish: Aluzinc AZ185: class C4 anti-corrosion performance. Can be customised in pre-painted white (standard), anthracite grey, gold on request,
- vertical attachments for connection to ceiling or horizontal attachments for wall-mounted connections,
- EC motor and forward curve impeller,
- high efficiency counterflow heat exchanger (Eurovent AAHE),
- adjustable by-pass,
- ePM10 60% (M5) or ePM1 55% (F7). Coarse 60% (G4) pre-filters as accessory,
- accessories:
 - built-in CO₂ sensor,
 - built-in motion sensor with LED status indicator - PIR,
 - built-in humidity sensor - HR,
 - communication with webserver - WEBE,
 - HMI user interface (for start-up and commissioning),
 - caution: if the built-in CO₂ sensor and the built-in PIR are selected, the unit is fully ready for use.

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Supplementary characteristics

- Aldes Smart Control®:
 - constant speed,
 - constant airflow,
- constant pressure,
 - airflow control with CO₂/VOC sensor (0-10 V signal),
 - controlled pressure,
 - built-in clock: operating times can be controlled using a timer,
 - wired remote control system,
 - BMS communication via Modbus RTU and Bacnet TCP/IP protocols.

Consumables

Désignations	References
Ambient temp° transmitter	11069100
Standalone detector trip device 230/24V	11906103
Smoke sensor	11058417
Motor Sfa-S2 On/Off 24/230V	11055045
797X363X96 Filter G4 VEX330T	11101478
797X363X96 Filter F7 VEX330T	11101479
797X363X96 Filter F9 VEX330T	11101480
797X363X96 Filter M5 VEX330T	11101481
Pre-filter G4 797X363X48 VEX330T	11101496
Pre-filter F7 797X363X48 VEX330T	11101497
Pre-filter M5 797X363X48 VEX330T	11101498

Associated services

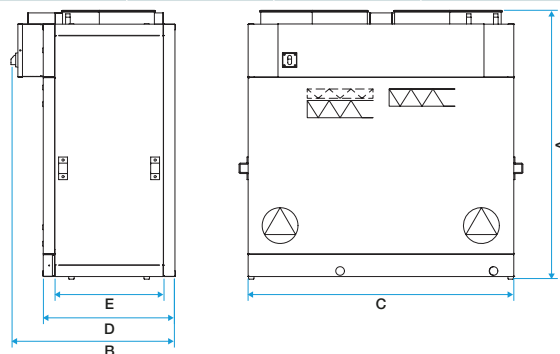
Commissioning

General data

References	Insulation density (kg/m ³)	Thickness of insulation (mm)	Available filters	Voltage input	Motor class in accordance with IEC TS 60034-30-2	Current overload protection	Regulation	Control signal with control system	Fluid temperature (air)	Max. Total efficiency (A-D) (%)
11058038	65	49	ePM1 80% (F9), ePM1 55% (F7), ePM10 65% (M5), Coarse 65% (G4).	1 x 230 V	IE4 (Super Premium Efficiency)	Indbygget	Trinløs via motorstyring (MC)	Med integreret automatik: ModbusFor anden automatik: 0-10 V DC	-40°C...+40°C	60

Dimensional data

References	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	Ø connection (fresh air or exhaust) (mm)	Ø connection (discharge or air supply) (mm)	Weight (kg)	Vægt for indtransport
11058038	1474	1092	1500	932	827	315	315	265	158 kg (ekskl. låger, varmeveksler og ventilatorer)



Dimensions VEX330T

Airflow data

References	Minimum airflow	Max. airflow ErP (m ³ /h)	Max. airflow (m ³ /h)
11058038	200	1775	2150

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Thermal data

References	Max. exchanger output (%)
11058038	94

Electrical datas

References	Frequency (Hz)	Protection rating	Max. current consumption SINGLE-PHASE 230 V (A)	Max. power of electrical coil 1 (kW)	Max. electrical output of unit (kW)	Voltage (V)	Electrical coil voltage 1	Unit voltage (V)	Maximum current - unit (A)
11058038	50	IP20	7,3	10.41	1,7	1x230	3x400	230	7,3

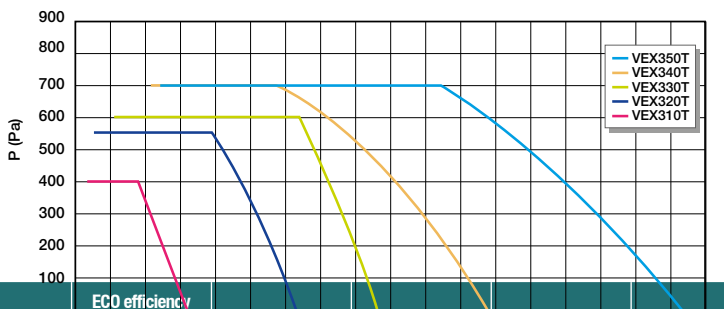
Regulatory data

References	Test values as per standard EN 1886
11058038	D1, L1, L1, F9, T2, TB3

Principe de fonctionnement

VEX300T operatin

Curve



Efficiency level requirements	ECO efficiency level	Connection direction	Type of exchanger	Type of motor	Type of impeller	Ambient temperature range
62N (2019)	level 500	Top	With plates	EC	Backward curve	-30°C...+50°C