VEX330T

VEX300T is an extremely compact unit with top connection and optimal energy performance, with low sound or noise levels to the surroundings.



PRODUCT BENEFITS

- Transport through 900-mm door possible
- High efficiency (up to 90%) AHU units
- Exclusive Aldes Smart Control System

REGLEMENTATIONS AND COMPLIANCES Eurovent Certification no. : 10.12.505

Principles of operation

The VEX 300T 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

VEX300T is a range of compact air handling units in which all ducts exit the top of the unit. Water is also connected to the cooling/heating surface placed in the top of the air handling unit, just as the condensation outlet is connected on the front of the unit. Therefore, VEX300T can be placed closely to other technical equipment, since the end walls do not need to be accessed for service.

The range consists of 5 sizes, with an option for the EXact2 control system or prepared for a third party control system.

VEX300T has been construced with integral heating or cooling coils, which reduces the installation costs. It is also possible to choose filtration of the supply air.

The design is optimised for compactness, temperature efficiency, airflow and energy consumption. Despite being very compact in size, the unit is easy to service, e.g. for filter change, cleaning, etc.

Installation

• VEX300T must be located indoors and can be used for all purposes where the special top-duct construction will aid installation.

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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EXHAUSTO

VEX330T VEX330T

Supplementary characteristics

- Extremely compact design with top connection
- Integrated cooling/heating coil
- Very quiet product, emits minimal noise to the surroundings

Accessories

Airflow control for VEX300T with Exact AFC320C AFC330CAFC2V300TClosing damper, Ø315LS31524Closing damper with spring-return, Ø 315 mmLSR31524Base for VEX320TMSV320TModbus communications module for analogue and digital inputs and outputsMIOManual override timer buttonTIMERBUTTONManual override to comfort mode excl. MIO - incl. cableTIMERBUTTON2Motion sensor for override at comfort level (MIO)PIRB-ASMotion sensor for override at comfort level (Modbus)MIOTSROOMHW050X08002U0ULMIOTSROOMCO2 sensor - room (MIO)MIOC2ROOMCO2 sensor duct (MIO)MIORHROOMRH sensor, room (MIO RH-ROOM)MIORHROOMTouch panel 3.5MHI2-350-TOUCHPressure sensor for constant pressure regulationMPTDUCTCO2 room sensor analogue 0–10 V (can be reprogrammed)CO2ROOMCO2 room sensor analogue 0–10 V (kan be reprogrammed)RCO2KW050X0802U0ULRCO2HW050X0802U0ULRCO2	Désignations	Variants
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RH sensor for room - analogue 0-10 V (0-100 % RH) RFF	MIO2 module	MIO2-MODUL
	Motion sensor - digital - excl. MIO	PIR
Syphon water trap, overpressure SIPHONOP	RH sensor for room - analogue 0-10 V (0-100 % RH)	RFF
	Syphon water trap, overpressure	SIPHONOP

General data

IE4 (Super Premium Efficiency)
1 x 230 V
Variable via motor control (MC)
Modbus
0-10 V DC
-40°C+40°C
-30°C+50°C

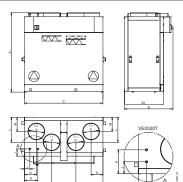
Fan data

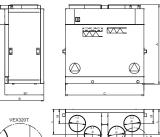
Max. Total efficiency (A-D) (%)	60
Efficiency level requirements	62N (2015)
ECO efficiency level during optimal operating point	79,4N
Overload protection	Built-in

VEX330T VEX330T

Dimensional data

A (mm)	1474
B (mm)	1092
C (mm)	1500
D (mm)	932
E (mm)	827
Ø connection (fresh air or exhaust) (mm)	315
Ø connection (discharge or air supply) (mm)	315
Weight (kg)	265
Weight for transport	158 kg (excl. doors, heat exchanger and fans)







Airflow data

Minimum airflow	200
Max. airflow ErP (m³/h)	1775
Max. airflow (m³/h)	2150

Heat recovery data

Max. exchanger output (%)	94
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Electrical datas

Frequency (Hz)	50
Max. current consumption SINGLE-PHASE 230 V (A)	7,3
Max. power of electrical coil 1 (kW)	10.41
Max. electrical output of unit (kW)	1,7
Voltage (V)	1x230
Electrical coil voltage 1	3x400
Maximum current - unit (A)	7,3
Power consumption (kW)	0,457

Regulatory data

Test values as per standard EN 1886	D2, L1, L1, F9, T2, TB3
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CMEV air handling unit **VEX330T**

VEX330T Installation

Cabinets are made from Aluzinc® AZ185 class C4 in accordance with EN/ISO12944-2 and insulated with 50 mm mineral wool. This results in low noise emissions to the surrounding environment/installation room. The panel design minimises the formation of thermal bridges in the unit.

The VEX300T range is supplied with an integral heating coil or cooling-heating coil

HE: Electric heating coil (requires airflow control, accessory - AFC) HW: Water heating coil

CW: Cooling-heating coil (option for cooling in summer and heating in winter) DX: Cooling-heating coil (option for cooling in summer and heating in winter)

See more about cooling/heating coils under the technical data for the size in question

Note: It is also possible to order the VEX300T without cooling and/or heating coils

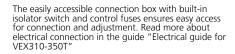
With some projects, limited space means that internal transport of the air handling unit is difficult or impossible. This is why the VEX300T is available as a SPLIT version. It means that the air handling unit can be assembled and tested at the factory as normal – just without sealant. The air handling unit can therefore be easily taken apart at the installation site, transported as single sections, assembled, sealed and commissioned commissioned.

X

It is possible to insert a 48-mm filter ahead of the standard filter on the supply air side. Placing a coarser filter in front of a finer filter reduces soiling on the finer filter. Depending on the outdoor air and the

desired quality of the supply air, this can be a good idea/option. The filters for pre-filtration are available in the following filter classes: ePM1 55% (F7), ePM10 65% (M5) and Coarse 65% (G4). Pressure drop, etc. can be calculated in the product calculated programme ExcelectPPO

selection programme EXselectPRO.



VEX300T is equipped with an optimised centrifugal impeller with backward curved blades. The wheel is made from a composite material and its shape provides great performance with low energy consumption.

Panel filters for supply air and extract air- the filters The filters are available in the following filter classes: ePM1 80% (F9), ePM1 55% (F7), ePM10 65% (M5) and Coarse 65% (G4). See filter size under technical data for the individual

VEX size.

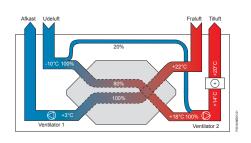


The motor sections are mounted in vibration dampers, which reduces noise in the ducts and eliminates the need to fit flexible connections between the unit and the duct system. The motors are of type EC and are extremely efficient. They comply with the requirements of the Ecodesign

Directive.



VEX330T VEX330T



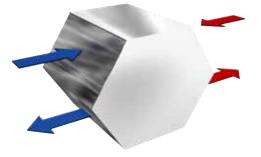
The VEX300T is designed with de-icing bypass. If there

The VEX300T is designed with de-icing bypass. If there is a risk of icing, then a certain amount of outdoor air will bypass the heat exchanger and go directly to the after heating coil. This increases the demands on the heating coil's output. However, it avoids a costly preheating coil. The drawing below is an example of a de-icing situation, where 20% of outdoor air is directed through the bypass damper. Heating coil and de-icing function: The de-icing situation is shown above, a heating coil is included here. This is completely necessary, in order for the de-icing function to function correctly. Without the heating coil, the de-icing process will cause the temperature of the supply air to fall and sooner or later the VEX unit will stop because of icing. The heat exchanger has two forms of frost protection: temperature-controlled or pressure-controlled. temperature-controlled or pressure-controlled. The actual de-icing can take place in several ways, depending on whether an after heating coil has been fitted. A post-heat surface is always recommended to maintain continuous upptilations. maintain continuous ventilation.

> Aldes Smart Control®/EXcon control (France, Norway, Sweden):

- constant speed
 constant airflow
- constant pressure airflow control via CO2/VOC sensor (0–10V signal). -
- Controlled pressure built-in clock: operating hours can be controlled with
- timer wired remote control system
- BMS communication via Modbus RTU and Bacnet TCP/IP protocols > EXact2 control system (other countries): Constant speed. Variable speed. Constant
- pressure Airflow control with CO2/VOC sensor (0–10 V signal)

- Wired remote control system
 Option: Built-in web server
 Option: BMS communication via Modbus RTU/
- RS485, Modbus TCP/IP, BACnet, MSTP/BACnet IP



The counterflow heat exchanger in VEX300T is made of aluminium. Its design ensures the ratio between heat recovery and pressure drop is optimumally distributed

oistributed. I.e. extremely high temperature efficiency is achieved at low levels of energy consumption. > 80-85% efficiency without condensation > Up to 94% efficiency with condensation

Principles of operation

VEX300T operatin

The control system has temperature-controlled frost protection as standard. It is an inexpensive solution and provides sufficient frost-protection in some situations.

situations. A temperature sensor is fitted inside the heat exchanger and if the temperature falls to a pre-set value, de-icing begins. This temperature level is factory set to 0 °C but it can also be changed to a new value in the vertical extern via the control system.

Temperature-controlled frost protection triggers the de-icing process even if there is no ice in the heat exchanger.

The control system monitors the actual airflow and also the pressure drop across the heat exchanger. If ice forms in the heat exchanger, the pressure drop across the heat exchanger will increase and when it exceeds a pre-set value, de-icing begins. Pressure-controlled frost protection only starts de-icing when ice has actually formed, regardless of whether there are sub-zero temperatures. there are sub-zero temperatures.



The combination of a modern EC motor and an optimised centrifugal impeller delivers extremely low energy consumption and greater output at the same time



An energy label that states the energy class of the air handling unit in relation to defined operating conditions is available via our product calculation programs.

VEX330T VEX330T

Curve

