



VEX4000



GAMME

Designation	References
VEX4010	11058017
VEX4020	11058018
VEX4030	11058019
VEX4040	11058020
VEX4050	11058025
VEX4060	11058026
VEX4070	11058027
VEX4080	11058028
VEX4090	11058029
VEX4100	11058030

DESCRIPTION

- 10 models - up to 30 000 m³/h
- Modular Air Handling Units.
- Construction using aluminium profiles and double-skinned panels.
- External finish in Aluzinc AZ185: corrosion class C4. Please consult us for other finishes.
- Mineral wool insulation : 50 mm (Class A1 from DIN4102), density 65 kg/m³.
- EN1886 values: D2, L1/L1, T2, TB3 (TB2 available shortly) F9.
- EC Motor with low consumption impellor, with optimised SFP thanks to the direct drive, centrifugal impellers.
- Easy access and maintenance: rail mounted components, lit inspection hatches (optional), doors on adjustable hinges, removable with lockable handles.
- High efficiency rotary heat exchanger (Eurovent AARE), with 4 efficiency levels. Purge section as an option to preserve the quality of the indoor air.
- 4 types of heat exchanger:
 - Aluminium (as standard).
 - Hygroscopic.
 - Sorption: ideal for hot and humid climates.
 - Epoxy: ideal for corrosive atmospheres (i.e.: sea air).
- Cross-flow heat exchanger (as per ERP 2016) in standard aluminium or epoxy. Stainless steel condensate tray, resistant to corrosion, and integrated modular bypass.
- Choice of filters to guarantee air quality: dihedral filters ISO ePM10 50% (M5) / ISO ePM 65% (F7) / ISO ePM1 80% (F9) or ISO ePM 65% (F7) activate carbon (ask for other types of filter and pre-filter).
- Integrated switch.
- EXcon 100% Plug & Play control:
 - Constant airflow.
 - Constant pressure.
 - Variable airflow by CO₂/VOC sensor (0-10 V signal).
 - Regulated pressure: optimal pressure control used to adapt pressure set point according to measured airflow, ensuring energy efficiency.
 - Temperature control.
 - Integrated clock: operating hours can be controlled with timer.
- Configuration and monitoring via remote, touch-sensitive controls.
- BMS communication protocols :
 - Integrated webservice TCP/IP RJ45.
 - ModbusRTU RS485.
 - BACnet TCP/IP.
 - LON (optional).
- Version without controls also available.

FIELD OF APPLICATION

- Heat recovery ventilation for energy-efficient non-residential buildings of all types: offices, schools, shops, etc.
- Filtration, preheating and cooling of incoming air.

(1) In accordance with eco design regulation 1253/2014.

(2) Participation in the Eurovent Certita Certification programme for Air Handling Units (AHU): the certified model data is listed in the Eurovent Directory.

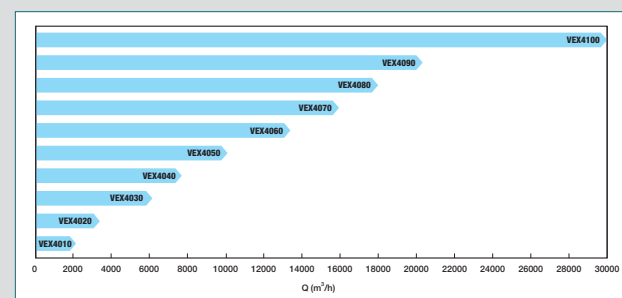
ADVANTAGES

- Energy performance.
- Low noise level.
- Quality and reliability.
- Easy maintenance and installation.

COMPLIANCE(S)

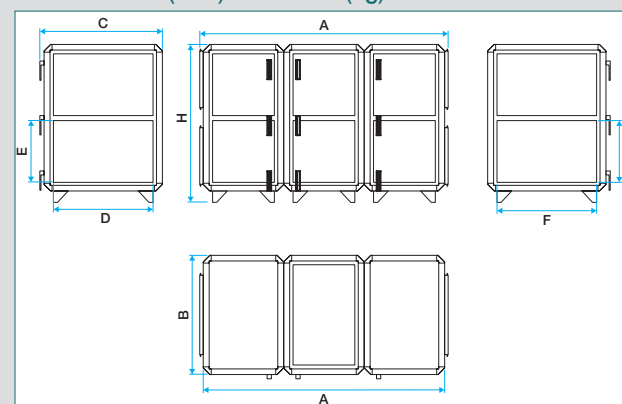
- Eurovent Certification (AHU)⁽²⁾.
- CE-conformity.
- Construction according to VDI6022 German hygiene norm.
- RLT deutch certification.
- ErP⁽¹⁾.

RANGE



The capacity for each model is defined from the indications given for EcoDesign ErP2016. See the VEX308 EXselect software for details of each individual unit.

DIMENSIONS (mm) - WEIGHT (kg)

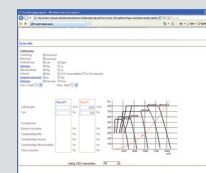


Example of basic VEX4000 without coils and with standard rotary heat exchanger. Dimensions and weights for information only. Make your selection via the EXselect software for the actual characteristics of your unit.

Model	A (mm)	B (mm)	H (mm)	D x E (mm)	Weight (kg)
VEX4010	2144	1055	1409	700 X 500	604
VEX4020	2144	1275	1409	900 X 500	678
VEX4030	2254	1549	1599	1200 X 600	859
VEX4040	2254	1630	1699	1300 X 600	957
VEX4050	2254	1755	1844	1400 X 700	1030
VEX4060	2544	1930	2169	1600 X 800	1244
VEX4070	2724	2115	2169	1800 X 800	1399
VEX4080	2724	2325	2444	2000 X 900	1557
VEX4090	2724	2625	2694	2200 X 1000	1782
VEX4100	2724	2895	2974	2400 X 1200	2055

SELECTION SOFTWARE

EXselectPRO offers simple and user-friendly selection of the VEX4000 unit range, that matches your needs and the building configuration: On-line access via our website.



Air Handling Units

Modular units



VEX4000



INSTALLATION

- Equipment rooms / terraces.
- Indoors / outdoors.
- In-line duct connection or choice of two vertical fixings.
- Rectangular connections.
- Choice of left or right side for equipment fittings.

ELECTRICAL DETAILS

All VEX4000 AHU are 1 x 230V + N + PE ~ 50 Hz.

ACCESSORIES

- ISO ePM10 50% (M5) dihedral filters (2 dihedral lengths).
- ISO ePM1 65% (F7) dihedral filters (2 dihedral lengths).
- ISO ePM1 85% (F9) dihedral filters (2 dihedral lengths).
- ISO ePM1 65% (F7C) activated carbon filters and other types of filter/pre-filter - ask for details.

In order to provide a good quality of interior air and make your unit energy efficient, we would recommend you change your G4/M5 filter every three months, and your F7/F9 filter every 6 months, or when your filter monitoring alarm is triggered. This frequency may change, depending on the level of pollution.

AVAILABLE OPTIONS

- Versions with or without EXcon controls.
- Delivery possible (dependant on model) assembled on frame or on feet, to facilitate installation, or using separate modules to facilitate on-site access.
- Exterior version, assembled and fixed on frame. Panels in Aluzinc as required. Roof fitted in the factory, rain cap with anti-bird grille.
- Inspection glass with lighting.
- Hot water coil.
- Cold water coil.
- Battery changeover (+/-).
- Electrical coil with TRIAC controls.
- Direct suspension cold coil (DX-)
- Integrated thermodynamic cooling unit.
- Recycling unit.
- Rotary high efficiency heat exchanger.
- Epoxy, sorption or hygroscopic rotary heat exchanger.
- Motorised dampers.