# Air handling unit 11050340 VEX560-C4 Pre-coated

VEX500-C4 is the air handling unit solution for bedrooms. It delivers a very good indoor air quality, a high level of comfort and restricts energy losses to a minimum.



VEX500-C4

### PRODUCT BENEFITS

 the safety of C4 blended with the benefits of very high efficiency air handling (up to 95%),
exclusive Aldes Smart Control® system, optimum air quality and thermal comfort.

# REGLEMENTATIONS AND COMPLIANCES

#### **Principles of operation**

VEX500-C4 brings fresh, filtered air (up to 90% of PM1) into the building and recovers heat from exhaust air using its very high-efficiency heat exchanger. The incoming air can be heated and/or cooled using a full range of coils.

#### Product description

VEX500-C4 is the ideal high-performance solution for multi-occupancy housing and non-residential accommodation. Thanks to its very high-performance heat exchanger, its wide range of filters and coils, building occupants enjoy very good indoor air quality (up to ePM1 90%) alongside excellent thermal and acoustic comfort. VEX500-C4 also severely restricts energy losses to a minimum (up to 95% efficiency on Eurovent AAHE-certified heat exchanger).

#### **Fields of application**

Multi-occupancy residential housing, New, Refurbishment, Non-residential buildings

- Installation
- equipment rooms / flat roofs,
- indoors /outdoors,
- in-line duct connections,
- rectangular connectors (circular adapters available as accessories),
- choice of utility connections side left or right.

#### **Reference arguments**

• VEX560-C4 monobloc air handling unit with horizontal connection. • C4 fire certification. • High-efficiency counterflow plate heat exchanger (AAHE-certified). • EC motors and backward curve impellers. • 50 mm double-skin insulation. • Filtration up to ePM1 90%. • 100% adjustable bypass. • Pre-coated finish and anthracite grey access panel. • Multiple possibilities for built-in coils. • Aldes Smart Control system. • Built-in web server. • BMS via Modbus RTU and Bacnet TCP/IP.

#### Air handling unit

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#### **Main characteristics**

- C4 solution: 400 °C 1/2 hour (Ø 160mm)
- pre-wired monobloc unit featuring self-supporting construction with dual-wall panels,
- 50 mm mineral wool insulation, density 40 kg/m<sup>3</sup>,
- high-efficiency counterflow plate heat exchanger up to 95% (AAHE-certified),
- EC motor and high-performance backward curve impeller,
- 100 % and adjustable bypass control,
- G4 filters (Coarse 60%) on exhaust, F7 (ePM1 60%) on fresh air,
- optional: M5 (ePM10 50%), F9 (ePM1 90%),
- wide range of coils,
- built-in switch,
- Aldes Smart Control® system:
- constant speed,
- constant airflow,
- constant pressure,
- variable airflow according to CO2/VOC probe (0-10V signal)
- pressure control: adapts pressure to airflow measured, for very high energy efficiency,
- built-in clock: timer control,
- configuration & monitoring via:
- remote touch-screen control,
- web server,
- BMS via ModbusRTU, Bacnet, TCP/IP.
- defrosting by electrical coil on exhaust air or by imbalancing the bypass.

#### **Supplementary characteristics**

- coil options:
- electrical,
- electrical post-heating,
- hot water with or without 3-way valve,
- cold water with or without 3-way valve,
- reversible (hot/cold) water with or without 3-way valve.
- aluminium or galvanised steel + paint condensate collection tray on heat exchanger,
- monobloc roof piece fitted in factory for outdoor versions,
- access to all components on the main panel via hinged, removable doors, and to control system via a specific central hatch,
- steel access doors pre-coated in dark grey (RAL 7016),
- galvanised steel or pre-coated external finish (RAL 9006) depending on the version,
- M0 interior finishes made of Z275 galvanised steel.

#### Accessories

Désignations	References				
VEX560 rain hood	11069037				
Flexible sleeve rectangular/circular D630 VEX560	11069053				
Rigid adapter piece VEX560	11069045				
Flexible sleeve MS Pro rectangular 910x510 mm VEX560	11069093				
Rigid adapter piece VEX560	11069045				

#### **Consumables**

References					
11069061					
11069069					
11069085					
11100733					
11100743					

#### **Options**





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#### **Options**

E69390
EXTENSION
EXTER
F69382
F7
F7+F9
FILAIRE
G4+F9
G4_S
G69371
HAUTEFF
L69371
M5+F7
M5+F7HE
M5+F9
M5_R
M5_S
PRECON
PREDEBCON
PREFILTRE
PREFILTRE2
PRESS
S69371
S69382
S69390
TACTILE

#### **Associated services**

Commissioning

#### **General data**

References	Insulation density (kg/ m³)	Thickness of insulation (mm)	Available filters	Connection direction	Type of exchanger	Type of motor	Type of impeller
11050340	40	50	Coarse 65%, ePM10 50%, ePM1 60%, ePM1 90%	Horizontal	With plates	EC	Backward curve

#### **Dimensional data**

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References	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	Weight (kg)
11050340	2502	1290	1262	910	510	940	540	1693	554
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#### Dimensions VEX500-C4

Dimensions are given as a guide only. Make your selection in the Selector VEX software to obtain the actual characteristics of your unit.

#### **Airflow data**

References	Minimum airflow	Max. airflow (m³/h)
11050340	900	4500

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#### **Thermal data**

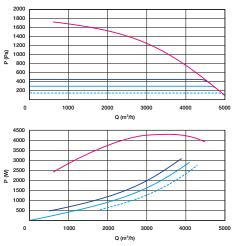
References	Max. exchan	jer output (%)	Max. current absorbed (kW)			
11050340	g	5	2,8			
Electrical d	latas					
References	Max. power of electrical coil 1 (kW)	Max. electrical output of unit (kW)	Electrical coil voltage 1	Unit voltage (V)		
11050340	14.96	4,4	3x400	400		
Regulatory data						
Deferences	Test velves as you standard FN 1000					

Test values as per standard EN 1886	

D1, L2, F7, T3, TB2

Curve

11050340



> Aeraulic curves drawn up as per standard NF EN ISO 5801.

> P (Pa) = static pressure.

> P(W) = power consumption.

Airflow and power VEX560-C4

