

Air handling unit

11069107
VEX740T

VEX700T is a perfect rotary air handling unit for small spaces, due to its small footprint and top connections.



Operations

PRODUCT BENEFITS

- Air handling units with reduced footprints (vertical fittings, bi-blocks),
- Siemens Climatix controls,
- optimal air quality and thermal comfort through a wide range of filter types and coils.

Principles of operation

The VEX 700 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 700 T is a cost-effective rotary heat exchanger solution that can handle high airflows (up to 10,000 m³/h) despite its small footprint, thanks in part to its top-mounted connections. Its configuration interface enables you to adapt its use to a wide variety of applications.

Fields of application

New, Refurbishment, Non-residential buildings

Installation

- equipment rooms,
- indoors,
- vertical duct connection,
- connects to rectangular fittings (circular connections using transformers),
- choice of left or right side access.

Main characteristics

- 8 VEX 700 T models up to 10,000 m³/h.,
- mono & dual-block units,
- self-supporting construction with galvanised steel panels,
- external paint finish RAL 7042,
- insulation with 50 mm of mineral wool, density 70 kg/m³,
- access to all components via hinged doors fitted to front and to control system via a specific central hatch,
- high-efficiency rotary heat exchanger (up to 86%),
- EC motor and high-performance backward curve impeller,
- compact filters ISO ePM10 50% (M5) on exhaust air and ISO ePM 65 % (F7) on air supply (as standard),
- filters available: ISO ePM10 50% (M5), ISO ePM 65% (F7) & ISO ePM1 80% (F9),
- optional pre-filters: ISO ePM10 50% (M5) or ISO ePM 65% (F7)

External electric, hot water, cold water coils, permutation and evaporator coil +/-,

- proximity switch available as option,
- Siemens Climatix control system,
- de-icing by reducing impeller speed,
- free-cooling as standard and optional night cooling (with Temp° sensor for room).

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Supplementary characteristics

- Siemens Climatix controls:
 - constant speed,
 - constant airflow,
- constant pressure,
 - airflow control with CO₂/VOC sensor (0-10 V signal),
 - built-in clock: operating times can be controlled using a timer.
- Configuration & monitoring via:
 - remote control,
 - web interface,
 - BMS communication via Modbus RTU, BACnet, TCP/IP or MS/TP protocols.

Accessories

Désignations	References
Proximity switch 1-speed 3-Ph - 7.5 kW + contacts	11057606
Rotor speed controller VEX700T	11069102
Pressure sensor	11069103
Humidity sensor VEX700T	11069113
2nd pressure switch filter VEX700T	11069114
VOC sensor VEX700T	11069115
Fresh air / discharge damper VEX740T	11069118
Silencer VEX740T L600	11069128
Silencer VEX740T L1000	11069129
Silencer VEX740T L1500	11069130
Silencer VEX740T L2000	11069131
Sens CO ₂ sensor	11017090
CO ₂ duct sensor DFE	11100142

Consumables

Désignations	References
Filter kit M5 VEX740T	11100995
Filter kit F7 VEX740T	11101001
Filter kit F9 VEX740T	11101007

Options

base
CAPT_VEX700
CHANG
CIRC
COLD
CON
DEBCON
ELEC 12kW
ELEC 5kW
ELEC 8kW
F7
F7F9
F9
HOT
M5
M5F7
M5F9
MSTP
PRESCON
REGUL
SOR
TCPIP
V2V

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Options

V3V
VAR

Associated services

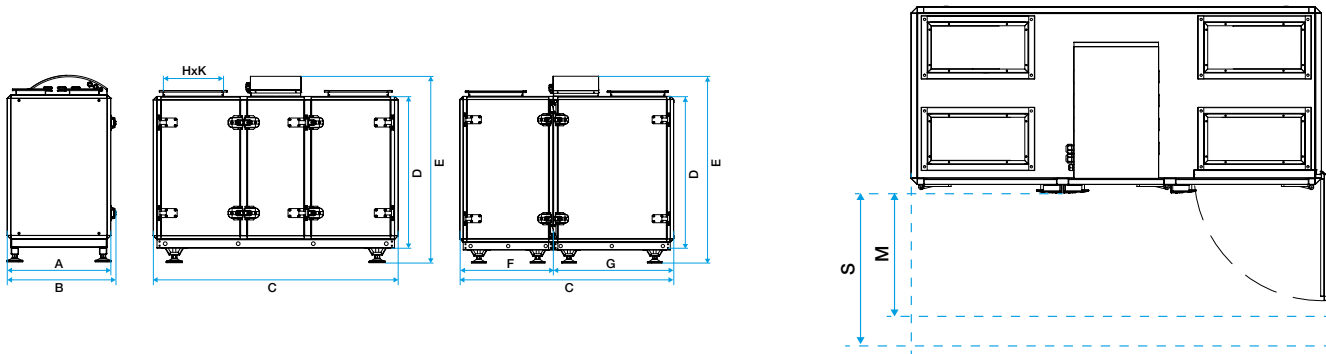
Commissioning

General data

References	Available filters	Connection direction	Type of exchanger	Type of motor	Type of impeller
11069107	ISO ePM10 50% (M5), ISO ePM 65% (F7) & ISO ePM1 80% (F9) filters available. ISO ePM10 50% (M5) or ISO ePM 65% (F7) pre-filters as an option.	Top	Counterflow	EC	Backward curve

Dimensional data

References	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	H (mm)	K (mm)	M (mm)	S (mm)	Weight (kg)
11069107	805	840	1630	1110	1345	400	250	600	800	280



Dimensions VEX700T

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Airflow data

References	Max. airflow (m³/h)
11069107	1900

Thermal data

References	Max. exchanger output (%)
11069107	78,4

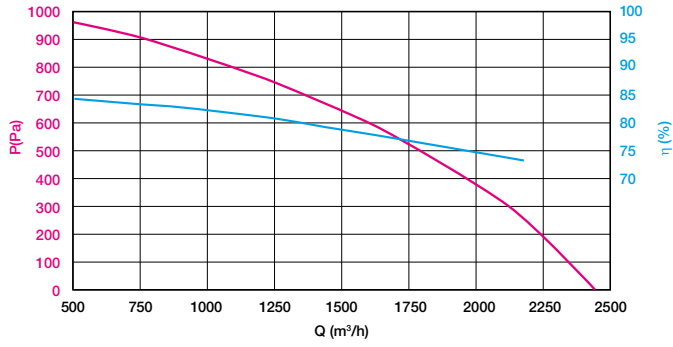
Electrical datas

References	Frequency (Hz)	Max. current consumption THREE-PHASE 400 V (A)	Max. electrical output of unit (kW)	Unit voltage (V)
11069107	50	3	1,5	400

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Curve



- > Aerodynamic curves drawn up as per standard NF EN ISO 5801.
- > P (Pa) = static pressure.
- > P (W) = power consumption.

Aerodynamic characteristics VEX740T