

## Air handling unit

11069110  
VEX770T

VEX770T 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 m<sup>3</sup>/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 m<sup>3</sup>/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/m<sup>3</sup>,
- 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 CO<sub>2</sub>/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 VEX770T	11069121
Silencer VEX770T L600	11069140
Silencer VEX770T L1000	11069141
Silencer VEX770T L1500	11069142
Silencer VEX770T L2000	11069143
Sens CO <sub>2</sub> sensor	11017090
CO <sub>2</sub> duct sensor DFE	11100142
Pressure sensor VEX770T-790T	11069104

## Consumables

Désignations	References
Filter kit M5 VEX770T	11100998
Filter kit F7 VEX770T	11101004
Filter kit F9 VEX770T	11101010

## Options

base
CAPT_VEX700
CHANG
CIRC
COLD
CON
DEBCON
ELEC 12kW
ELEC 15kW
ELEC 18kW
ELEC 20kW
ELEC 34kW
F7
F7F9
F9
HOT
M5
M5F7
M5F9
MSTP
PRESCON
REGUL

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#### Options

SOR
TCPIP
V2V
V3V
VAR

#### Associated services

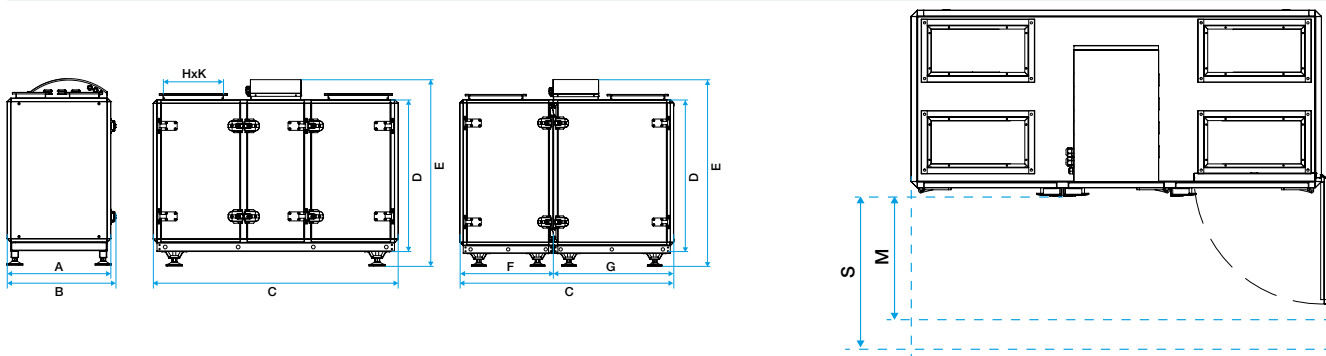
Commissioning

#### General data

References	Available filters	Connection direction	Type of exchanger	Type of motor	Type of impeller
11069110	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)	F (mm)	G (mm)	H (mm)	K (mm)	M (mm)
11069110	1185	1240	1580	1245	1480	690	890	400	450	870



Dimensions VEX700T

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#### Airflow data

References	Max. airflow (m³/h)
11069110	5500

#### Thermal data

References	Max. exchanger output (%)
11069110	80,9

#### Electrical datas

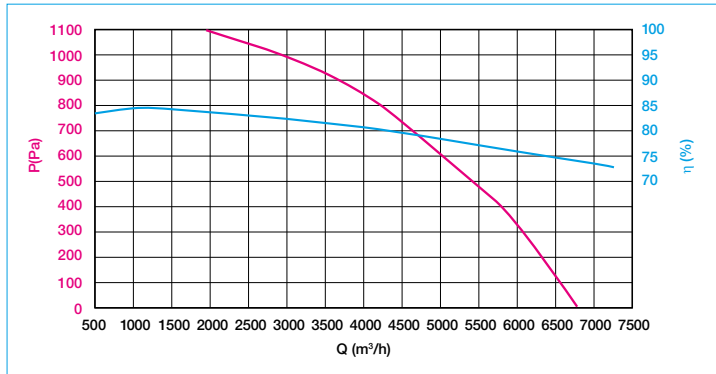
References	Frequency (Hz)	Max. current consumption THREE-PHASE 400 V (A)	Max. electrical output of unit (kW)	Unit voltage (V)
11069110	50	11,5	5,8	400

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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 VEX770T