

Air handling unit

11069106
VEX725T

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).

Air handling unit

11069106
VEX725T

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 VEX725T | 11069117 |
| Silencer VEX720T/725T L600 | 11069124 |
| Silencer VEX720T/725T L1000 | 11069125 |
| Silencer VEX720T/725T L1500 | 11069126 |
| Silencer VEX720T/725T L2000 | 11069127 |
| Sens CO ₂ sensor | 11017090 |
| CO ₂ duct sensor DFE | 11100142 |

Consumables

| Désignations | References |
|----------------------------|------------|
| Filter kit M5 VEX720T/725T | 11100994 |
| Filter kit F7 VEX720T/725T | 11101000 |
| Filter kit F9 VEX720T/725T | 11101006 |

Options

| |
|-------------|
| base |
| CAPT_VEX700 |
| CHANG |
| CIRC |
| COLD |
| CON |
| DEBCON |
| ELEC 12kW |
| ELEC 2.5kW |
| ELEC 3.5kW |
| ELEC 5kW |
| ELEC 6.5kW |
| ELEC 6kW |
| F7 |
| F7F9 |
| F9 |
| HOT |
| M5 |
| M5F7 |
| M5F9 |
| MSTP |
| PRESCON |
| REGUL |

Air handling unit

11069106 VEX725T

Options

| |
|-------|
| SOR |
| TCPIP |
| V2V |
| V3V |
| VAR |

Associated services

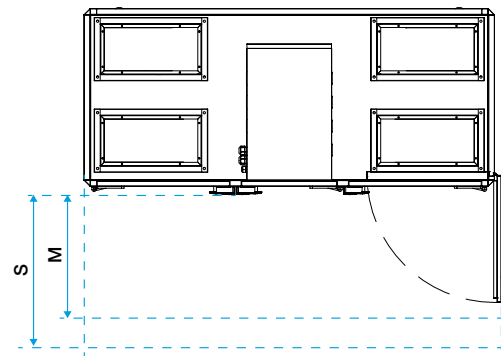
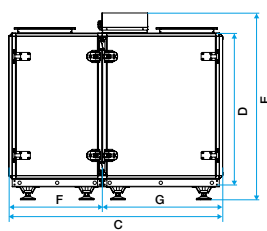
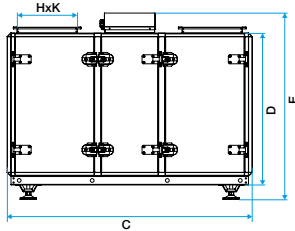
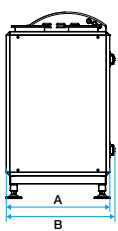
Commissioning

General data

| References | Available filters | Connection direction | Type of exchanger | Type of motor | Type of impeller |
|------------|--|----------------------|-------------------|---------------|------------------|
| 11069106 | 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) |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------------|
| 11069106 | 705 | 740 | 1630 | 1010 | 1245 | 400 | 200 | 600 | 700 | 250 |



Dimensions VEX700T

Dimensions VEX700T

Airflow data

| References | Max. airflow (m³/h) |
|------------|---------------------|
| 11069106 | 1000 |

Thermal data

| References | Max. exchanger output (%) |
|------------|---------------------------|
| 11069106 | 78,6 |

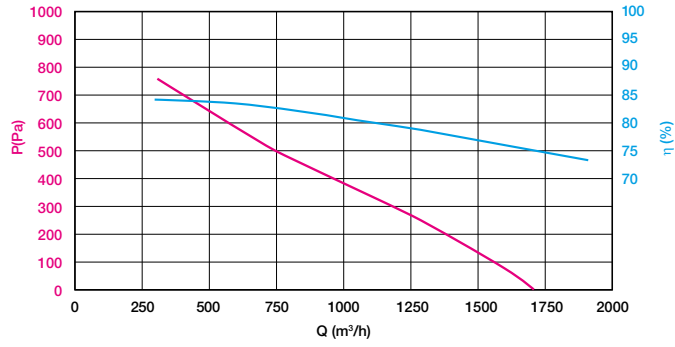
Electrical datas

| References | Frequency (Hz) | Max. current consumption THREE-PHASE 400 V (A) | Max. electrical output of unit (kW) | Unit voltage (V) |
|------------|----------------|--|-------------------------------------|------------------|
| 11069106 | 50 | 2 | 1 | 400 |

Air handling unit

11069106 VEX725T

Curve



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

Aerodynamic characteristics VEX725T