

GB

VEX140 Vertical HCE





with EXact2 control



VEX100
R A N G E
CROSS FLOW
HEAT EXCHANGER



RD10229-01

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-  Mechanical assembly..... Chapter 2 + 3
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Original instructions



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Symbols, terms and warnings

Prohibition symbol  **Failure to observe instructions marked with a prohibition symbol may result in serious or fatal injury.**

Danger symbol  **Failure to observe instructions marked with a danger symbol may result in personal injury and/or damage to the unit.**

Scope

This instruction manual is for use with EXHAUSTO VEX-type air handling units. Please refer to the product instructions regarding accessories and extra equipment.

The instructions must be fully observed to ensure personal safety and to protect the equipment and ensure its correct operation. EXHAUSTO A/S accepts no liability for accidents caused by equipment not used in accordance with the manual's instructions and recommendations.

Supply air/extract air

This instruction manual uses the following terminology:

- Supply air
- Extract air
- Outdoor air
- Exhaust air


Accessories

The confirmation of order states which accessories are delivered with the VEX unit.

Definition

In the type designation R stands for Right, indicating that the supply air is to the right of the unit, as seen from the operating side. Supply air to the left is designated with L for Left

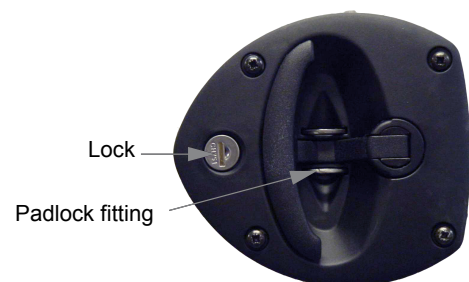
Prohibited uses  **The VEX unit is not to be used to transport solid particles or in areas where there is a risk of explosive gases.**

No duct connection  **If one or more of the spigots is not connected to a duct: Fit a protective net to the spigots with a maximum mesh width of 20 mm (in accordance with EN294).**

Lock the air handling unit during operation

The VEX unit must always be locked during operation:

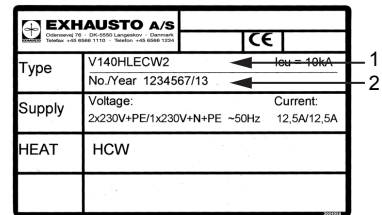
- Use the cylinder lock in the handle. **Remember** to remove the key from the lock.
- Or use a padlock. Use the handle's built-in padlock fixture.



Rating plate

The VEX unit rating plate shows:

- VEX unit, type (1)
- production number (2)



NB

Always have the production number ready when contacting EXHAUSTO A/S.

Choose the correct documentation for the task...

Find your information.

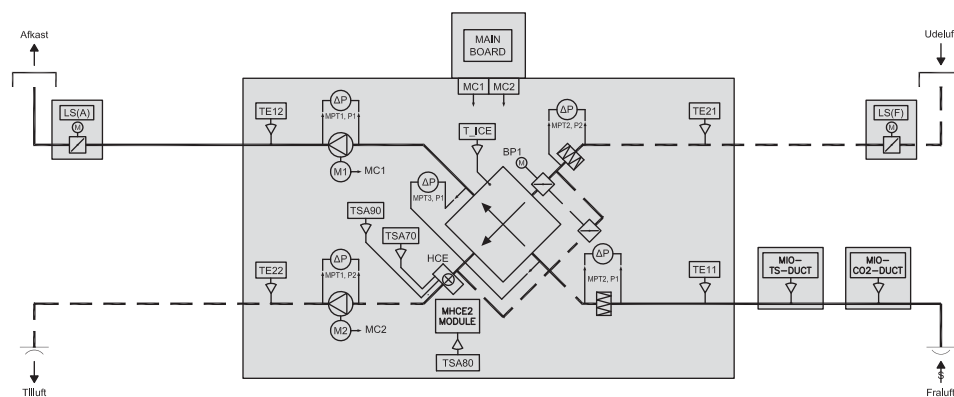
| Supplied documentation | Assembly and installation instructions | Electrical installation guide | EXact2 Basic instructions | EXact2 menu guide | Print out from calculation program |
|---------------------------|--|-------------------------------|---------------------------|-------------------|------------------------------------|
| Mechanical assembly » | ✓ | | | | ✓ |
| Electrical installation » | | ✓ | | | ✓ |
| Start-up - operation » | | | ✓ | ✓ | ✓ |
| Maintenance - Service » | ✓ | ✓ | ✓ | ✓ | ✓ |



1. Product information

1.1 Designations used in these instructions

1.1.1 Simplified diagram



RD 0183DK-03

| Component | Function | Standard/accessory |
|------------------|---|--------------------|
| HCE | Electric heating coil | Standard |
| TSA70 | Overheating protection, electric heating coil (automatic reset) | Standard |
| TSA80 | Overheating protection, electric heating control (manual reset via HMI) | Standard |
| TSA90 | Overheating protection, electric heating control (manual reset via HMI) | Standard |
| MPT1, P1 | Airflow control, extract air | Accessories |
| MPT1, P2 | Airflow control, supply air | Accessories |
| MPT2, P1 | Filter monitor, extract air | Accessories |
| MPT2, P2 | Filter monitor, outdoor air | Accessories |
| MPT3, P1 | Ice detection | Accessories |
| LS(F)/LS(F)R | Closing damper, outdoor air | Accessories |
| LS(A)/LS(A)R | Closing damper, exhaust air | Accessories |
| BP1 | Bypass damper | Standard |
| M1 | Extract air motor | Standard |
| M2 | Supply air motor | Standard |
| MC1 | Motor controller, motor 1 | Standard |
| MC2 | Motor controller, motor 2 | Standard |
| Main board | Control system | Standard |
| TE11 | Temperature sensor, extract air | Standard |
| TE12 | Temperature sensor, exhaust air | Standard |
| TE21 | Temperature sensor, outdoor air | Standard |
| TE22 | Temperature sensor, supply air | Standard |
| T _{ice} | Temperature sensor for ice in exchanger | Standard |

1.2 Application

Comfort ventilation EXHAUSTO VEX is used for comfort ventilation tasks.
Operating temperature range for the unit – see section "Technical data".

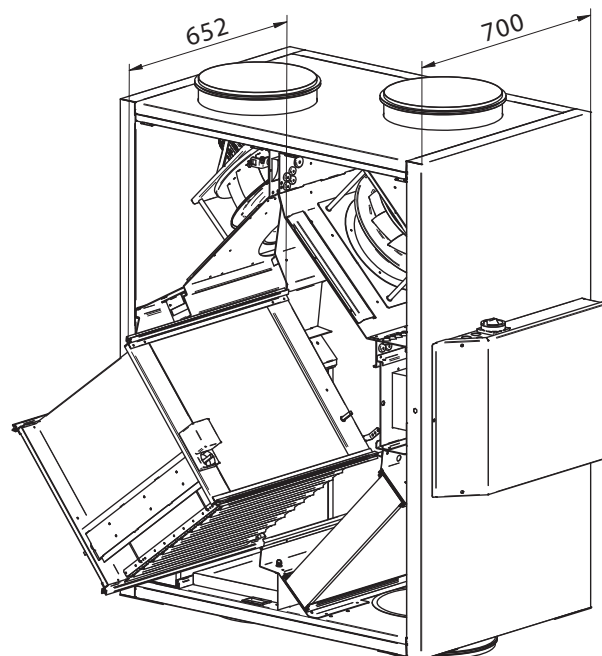
Prohibited uses The VEX unit is not to be used to transport solid particles or in areas where there is a risk of explosive gases.

1.3 Location requirements

Positioning The unit is designed for indoor fitting.

1.3.1 Space requirements

The drawing below indicates how much space is needed for opening the doors and servicing the unit, e.g. changing filters, cleaning, servicing, etc.



NB For servicing, the VEX must have a free height of at least 300 mm opposite the connection box.

1.3.2 Requirements for underlying surface

When fitting the unit directly to an existing surface - i.e. without using the mounting base (accessory) - the surface must be:

- flat
- level (+/- 3 mm per metre)
- hard
- resistant to vibration

1.3.3 Condensation outlet

A condensation outlet must be installed in the immediate vicinity of the unit. See also "Mechanical assembly" section.

1.3.4 Requirements for duct system

Silencers

The duct system must be fitted with silencers specified by the Project Manager, which meet the requirements of the operating area.

Bends

A duct bend may be fitted immediately after the unit, because the airflow in the spigot has a uniformly moderate speed profile, which results in negligible system pressure loss.

Insulation

The duct system must be insulated against:

- condensation
- sound leakage
- heating/cooling losses

Condensation

Condensation in the ducts may occur when the exhaust/outdoor air has high humidity. EXHAUSTO recommends a condensation outlet is also fitted at the lowest point in the ducts.

Outdoor air intake

The outdoor air intake must be dimensioned with sufficiently low airflow to prevent rain and snow being drawn into the duct system.

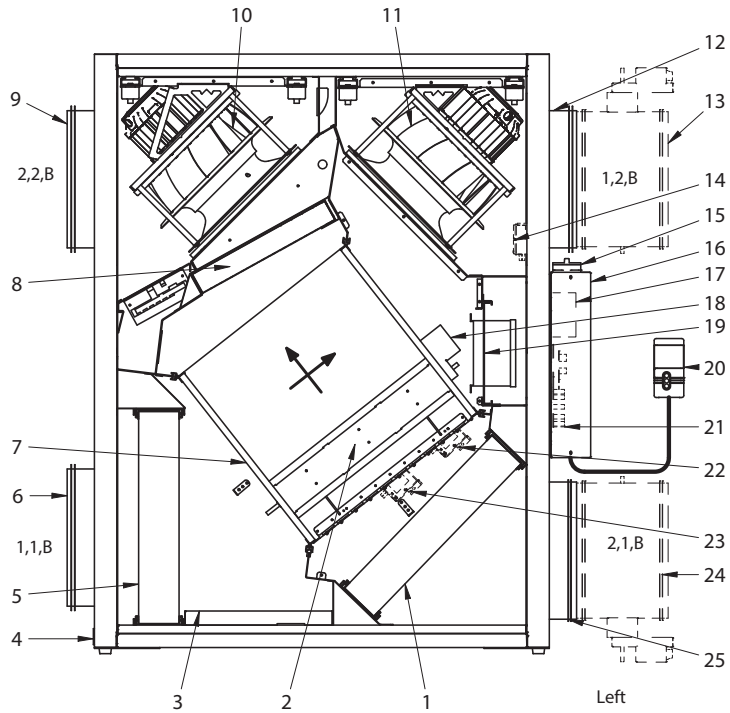
No duct connection

If one or more of the spigots is not connected to a duct: Fit a protective net to the spigots with a maximum mesh width of 20 mm.

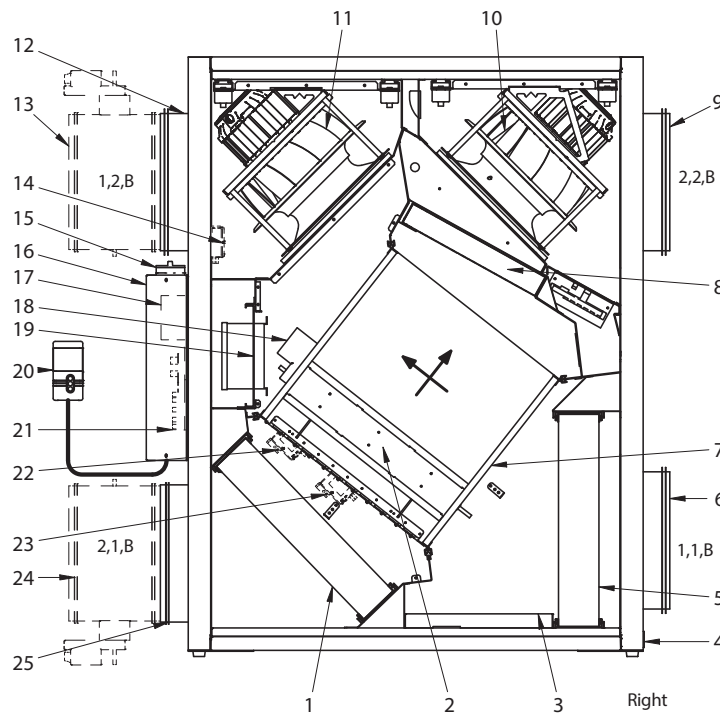
1.4 Description

1.4.1 Construction of the VEX unit

The following drawings show an overview of the construction of left and right-hand models of VEX units (shown without doors).



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| Pos. | Part | Function |
|------|--------------------------|---|
| 1 | Outdoor air filter | Filters outdoor air |
| 2 | Bypass damper | For operation with heat recovery, the bypass damper is closed so that the air passes through the crossflow heat exchanger. For bypass operation, the damper is open, and the air bypasses the heat exchanger. |
| 3 | Condensation tray | Collects the condensate and drains it away from the crossflow heat exchanger to the condensation outlet. |
| 4 | Condensation outlet | Channels condensate to the drain. |
| 5 | Extract air filter | Filters extract air |
| 6 | Spigot 1,1,B | Extract air spigot |
| 7 | Crossflow heat exchanger | Conducts heat from extract air to supply air |
| 8 | Electric heating coil | Heats supply air if heat recovery is insufficient. |
| 9 | Spigot 2,2,B | Supply air spigot The spigot can also be positioned on the top of the unit (2,2,A). |
| 10 | Supply air fan | For outdoor air/supply air |
| 11 | Extract air fan | For exhaust/extract air. |
| 12 | Spigot 1,2,B | Extract air spigot The spigot can also be positioned on the top of the unit (1,2,A). |
| 13 | Closing damper LS | Closing damper, exhaust air, LSA (accessory) |
| 14 | MPT1 (AFC) | Airflow control (accessory). |
| 15 | Isolation switch | Connects/disconnects current. |
| 16 | Connection box | Connection of accessories. |
| 17 | Terminal row | Connection of accessories to ventilation unit. |
| 18 | Bypass motor | Opens/closes bypass damper. |
| 19 | Sliding plate | Positioning of motor control components. |
| 20 | HMI panel | Control panel. |
| 21 | EXact2 control | Control system. |
| 22 | MPT3 (DEP) | Ice detection (accessory). |
| 23 | MPT2 (MPTF) | Filter monitor (accessory). |
| 24 | Closing damper LS | Closing damper, outdoor air, LSF (accessory) |
| 25 | Spigot 2,1,B | Outdoor air spigot The spigot can also be positioned at the bottom of the unit (2,1,A) |

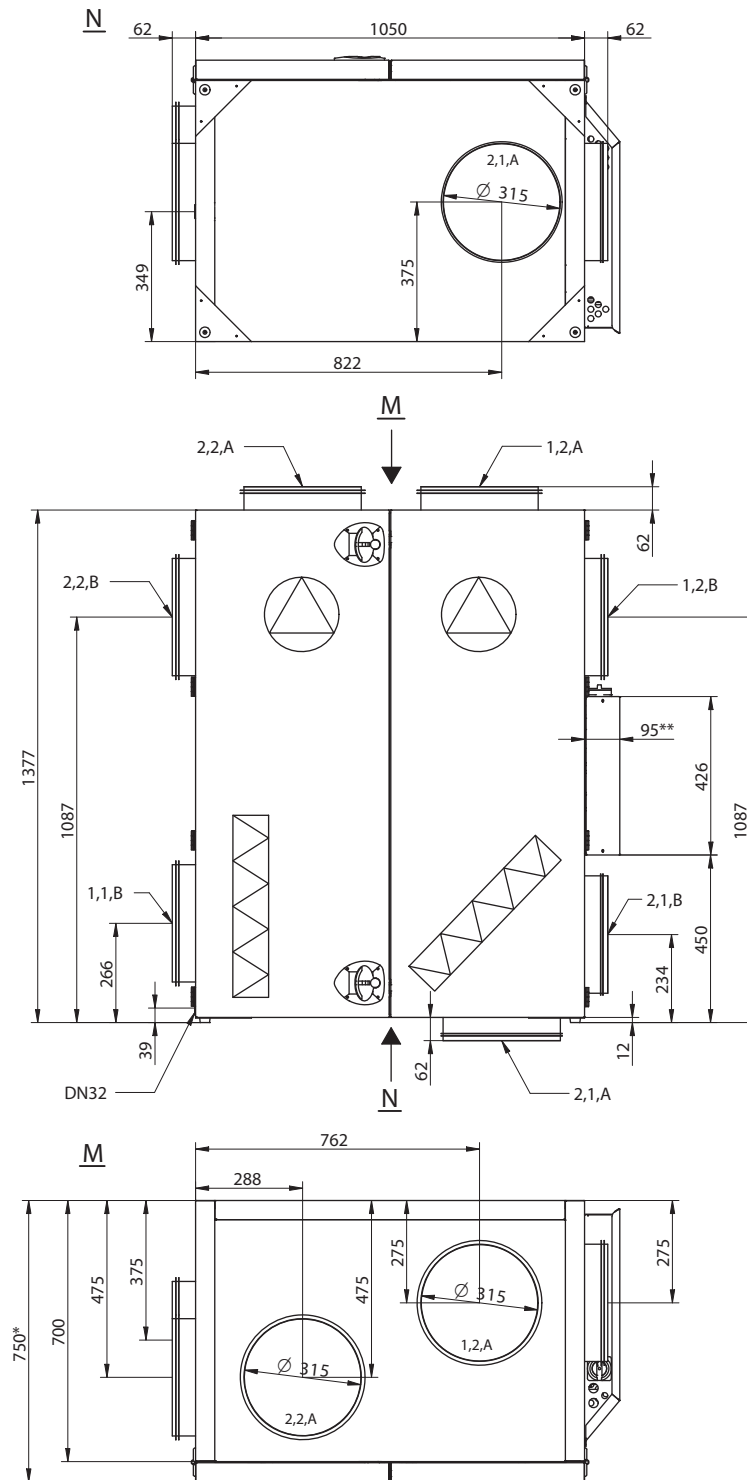
1.4.2 Parts of the VEX unit

| | |
|---------------------------------|--|
| Cabinet | The inside and outside of the cabinet are made of Aluzinc® The cabinet has been insulated with 50 mm mineral wool. |
| Fans | The unit contains two centrifugal fans with backward curved blades for extract air and supply air. |
| Crossflow heat exchanger | The crossflow heat exchanger in the unit is mounted with a modulating bypass damper. The crossflow heat exchanger can be removed for cleaning. |
| Filters | The unit includes integral panel filters for both extract air and supply air. |

1.5 Principal dimensions

VEX140V, Left

The following drawing gives the principal dimensions:



RD10311-02

NB

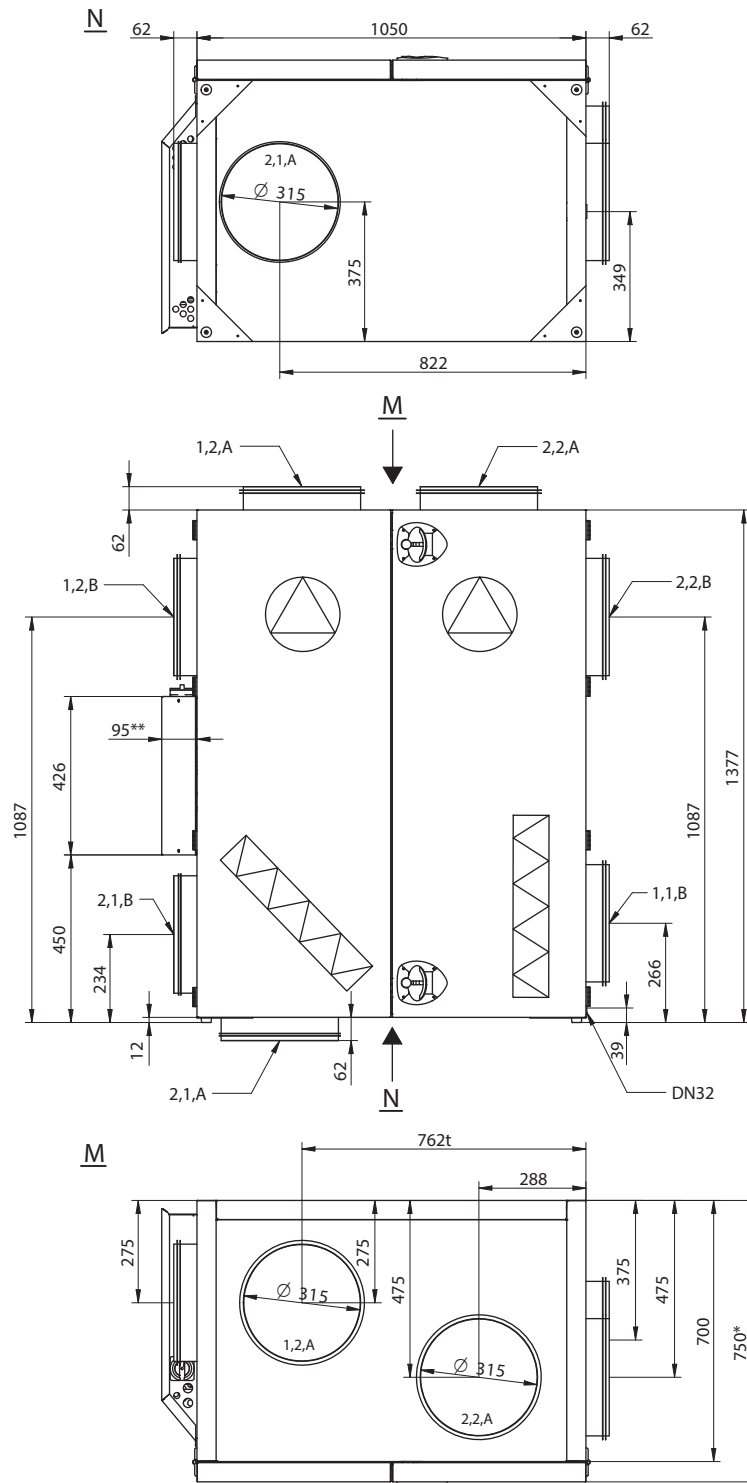
The drawing shows all of the spigot positioning options.

* Allow a distance for service in front of the unit equivalent to the unit depth.

** Allow a min. of 300 mm free height for service.

VEX140V, Right

The following drawing gives the principal dimensions:



RD10312-02

NB

The drawing shows all of the spigot positioning options.
 * Allow a distance for service in front of the unit equivalent to the unit depth.
 ** Allow a min. of 300 mm free height for service.



2. Handling

2.1 Unpacking

Supplied components

The following components are supplied:

- VEX unit
- Supplied accessories (as indicated in the checklist on the front page of the instructions).

Packaging

The unit is delivered on a disposable pallet and packed in clear plastic.

NB

Once the plastic has been removed, the unit must be protected against dirt and dust:

- **The covers on the spigots must not be removed until the spigots are connected to the ventilation ducts.**
- **Whenever possible, keep the unit closed during fitting.**

The unit should be cleaned before it is used.

Once the VEX unit is fitted, it must be checked and thoroughly cleaned. All dust, debris and metal shavings must be vacuumed up.

2.2 Transport

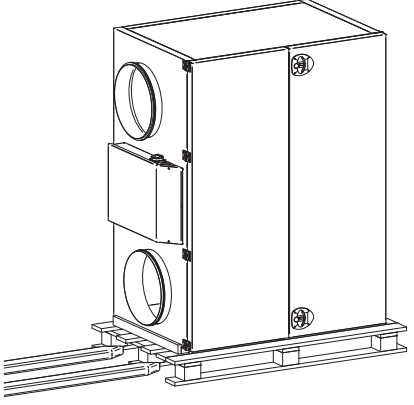

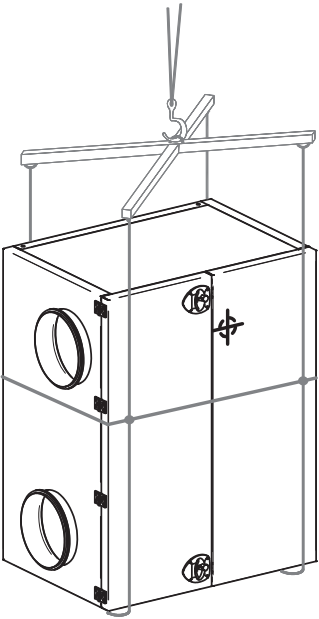
Transport

Transport the VEX unit on the disposable pallet. Do not lift it with the spigots or connection box.

Transport methods

Transport the VEX unit in one of the following ways:

| Method | Drawing |
|--|---------|
| <p>Manual transport: Lifting brackets for manual transport can be fitted as shown on the drawing:</p> | |

| Method | Drawing |
|---|---|
| <p>Using pallet truck or fork-lift truck: Lift the VEX unit on the disposable pallet. IMPORTANT: If the disposable pallet cannot be used, the forks on the lifting equipment must be long enough to prevent damage to the bottom of the unit.</p> |  |
| <p>Crane:</p> <p> Never lift the VEX unit with the lifting brackets by using a crane.</p> <p>Use straps and lifting yokes to prevent damage to the unit.</p> |  |

Weight For information about the weight of the unit, see the section "Technical specifications".

2.2.1 Passage through openings

Height VEX height is 1377 mm + any spigot in top (+62 mm) and bottom (+62 mm).

Width The list below shows how wide the opening has to be for the VEX unit to pass through:

| If the opening width is* | Then |
|--------------------------|-------------------------------------|
| less than 710 mm | the unit will not pass through. |
| 710–760 mm | remove doors, see relevant section. |
| greater than 760 mm | the unit can pass through. |

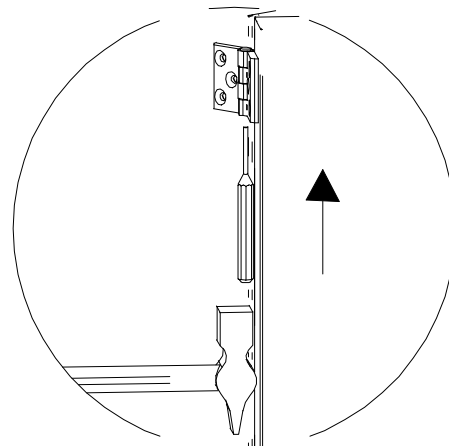
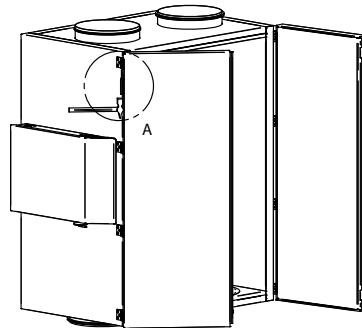
* Measurements are based on the exact dimensions of the air handling unit

2.2.2 Internal transport with reduced weight

Removing the service doors

To remove the service doors:

- Open both doors.
- Using a small punch or similar tool, knock the pin out of the top of the door hinges (A), and lift the doors off.



Detail A

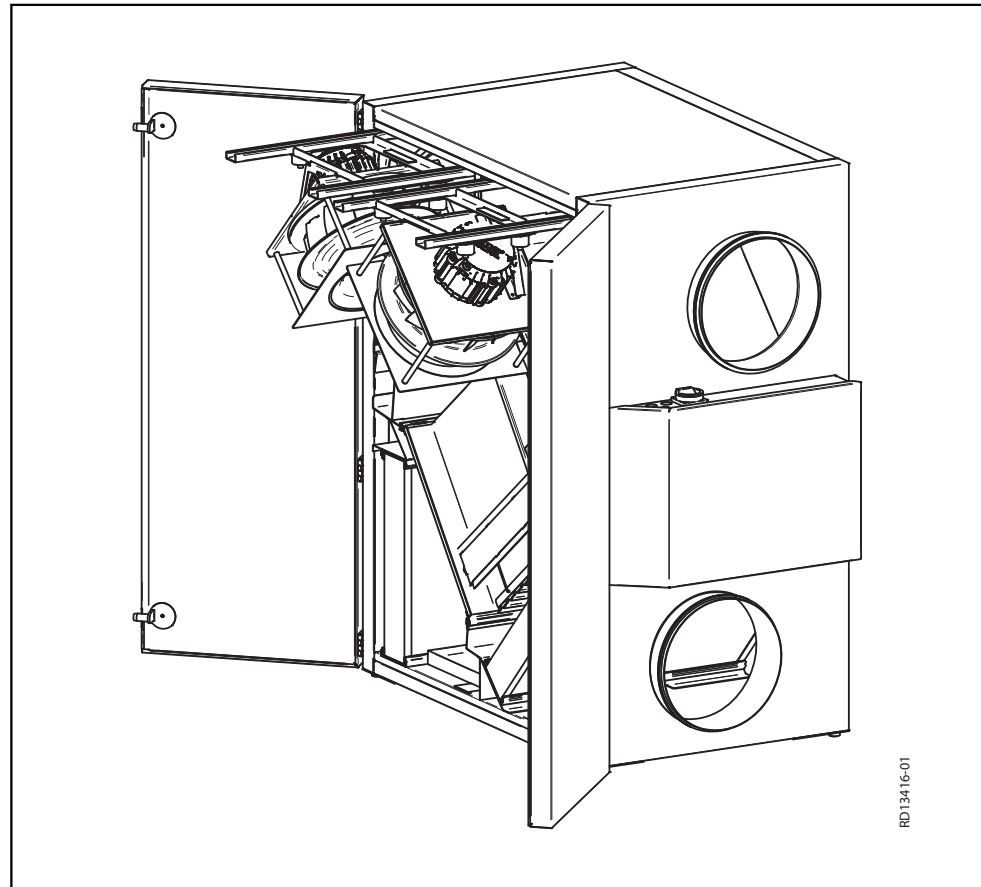
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Weight reduction

The weight can be reduced during transport by removing service doors, fans and crossflow heat exchanger. The table below shows the how much weight can be reduced by removing the various parts.

| Parts | Weights, VEX140V |
|-------------------------------------|------------------|
| Fan, 2 items at | 15.5 kg = 31 kg |
| Crossflow heat exchanger, 1 item at | 27 kg |
| Doors, 2 items at | 13.5 kg = 27 kg |
| Total weight | 1920kg |

To remove the fan unit



| Step | Action |
|------|---|
| 1 | Remove the fixing screw from the sliding rail, and release the ties on the motor cable. |
| 2 | Pull the fan unit out to the stop (two screws) on the sliding rail. |
| 3 | Dismount the motor cable from the motor control on the sliding panel and pull it towards the motor through the rubber grommets. |
| 4 | Remove the two sliding rail screws. The fan unit can now be lifted off. |

Dismounting

See section "Maintenance" for instructions for dismounting fans and crossflow heat exchanger and for removal of filters.



3. Mechanical assembly

3.1 Installation

Description It is important that the VEX is installed on a level surface, as this affects the collection and draining of the condensate.

3.1.1 Installation directly on floor

The requirements for the floor surface must be met, see the section entitled "Requirements for underlying surface".

NB After installation, check the VEX unit is completely level.

3.1.2 Installation on mounting base

The EXHAUSTO mounting base enables the VEX unit to be installed correctly. The base is equipped with adjustable levelling screws, so that the air handling unit can be fitted horizontally on a surface that is not level (+/- 20 mm per metre). See the separate instructions for installing the mounting base.

3.2 Condensation outlet



Connection of the condensation outlet must be made by an authorised plumber.



Drain the condensation outlet into a floor gully or similar. The condensation outlet must be fitted with a water trap. See below.

Risk of frost



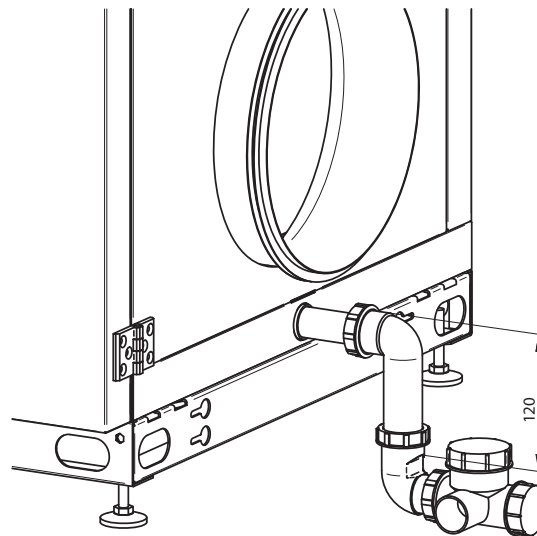
Where there is a risk of frost: It is recommended to protect the condensation outlet against frost damage. Fit a SIPHONE electrical heat tracing device on the outlet before the pipes are insulated. For fitting, see the device's fitting instructions.

3.2.1 Establishment of condensation outlet

Location The following two drawings show examples of how the drain from the condensation outlet can be established and the correct dimensions for the water trap:

Solution with siphon water trap (accessory)

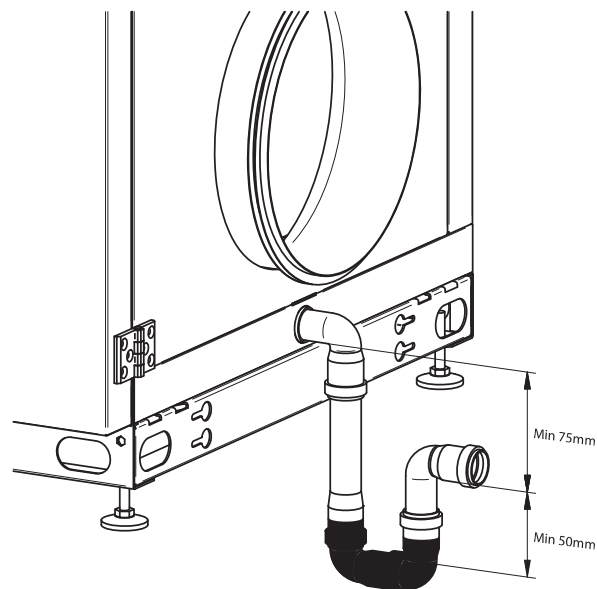
The siphon water trap is easy to install and service.



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Solution with HT pipe

Use HT pipe (HT, DN32, DIN4102), if the above solution is not employed (not supplied by EXHAUSTO).



RD101852-02

NB:

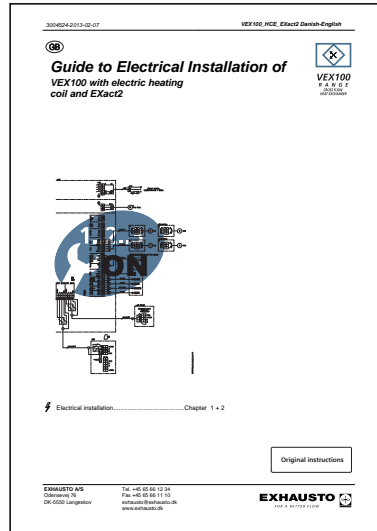
If the VEX is erected on a mounting base, this will allow sufficient free height for installing a water trap.



4. Electrical installation

4.1 Electrical installation

See the attached instructions "Guide to Electrical Installation of VEX140 HCE with EXact control system":





5. Maintenance, hygiene and servicing

5.1 Operating readings via the HMI panel

HMI panel

Refer to the "EXact2 Control System Basic Instructions for VE100/100CF" for instructions on accessing Menu 2 "Operation displays" via the technician menu (access code 1111) to check the unit's operating status.

5.2 Maintenance

5.2.1 Overview of maintenance intervals

The following chart details the recommended maintenance intervals for the VEX, based on normal operation. EXHAUSTO recommends maintenance is adjusted to suit the actual operating requirements.

| Component | Procedure | Twice a year | Once a year |
|--------------------------|--|--------------|-------------|
| Filters* | Change filters when HMI displays filter alarm. We recommend that both filters are changed at the same time. NB: The control system can issue a warning when the filter is becoming soiled Filters should be changed at least: | X | |
| Filter guide | Check that all the seals are tight | | X |
| Seals and sealing strips | Check that all the seals are tight | | X |
| Fan | <ul style="list-style-type: none"> Check that the fan impeller is securely fixed to the shaft. Remove the fan unit. See section "Internal transport with reduced weight" Cleaning, see section "Servicing and cleaning" | | X |
| Crossflow heat exchanger | Clean the heat exchanger, see section "Cleaning of heat exchanger" | | X |
| Bypass damper | Check damper function | | X |
| Heating coil | Clean the heating coil, see section "Cleaning of heating coil" | | X |
| Safety functions check | <ul style="list-style-type: none"> Fire thermostat check Temperature sensors on heating pipes | | X |
| Closing damper | Check damper function | | X |
| Condensation outlet | Check that the outlet works by pouring water in the condensation tray | | X |

*Filters



Only use original EXHAUSTO filters

- The provided filter data (section "Technical data") are based on the use of original EXHAUSTO filters
- Eurovent certification is only valid if original filters are used.
- Use of non-original filters may cause leakage in the VEX unit, impair filter function and cause an extraordinary pressure drop.
- EXHAUSTO recommends that you register the filter replacement date to ensure filters are replaced at the correct intervals.

5.3 Hygiene (VEX100VDI only)

VDI6022 air hygiene standard

To ensure that the VEX100 meets the requirements of the VDI6022 hygiene standard, its design ensures that:

- bacterial growth and dirt accumulation are minimal
- conditions for cleaning are optimum

Filter ePM₁ 55%

The outdoor air side of the unit must as a minimum be fitted with an ePM₁ 55% filter (F7) to meet VDI 6022 requirements.

5.4 Servicing and cleaning

5.4.1 Filter change



Disconnect power at the isolation switch before opening the door.

Pull the filters out. Remember to check the flow direction - see the arrows on the filter.

Discarded filters must be stored immediately in sealed plastic bags and disposed of responsibly.


Filter change in menu 8.1

After filter change (timer operation only): Go to menu 8.1 in the EXact control system and select "Yes" next to filter change to reset the operating days counter.

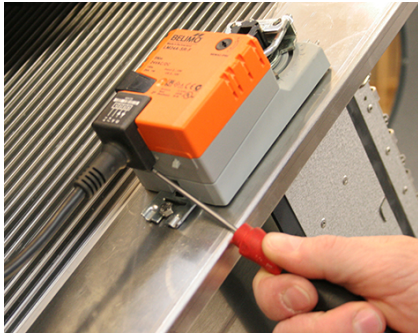
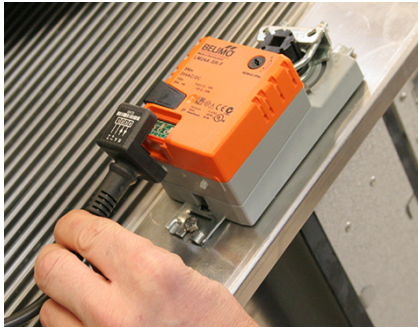
5.4.2 Cleaning the fans


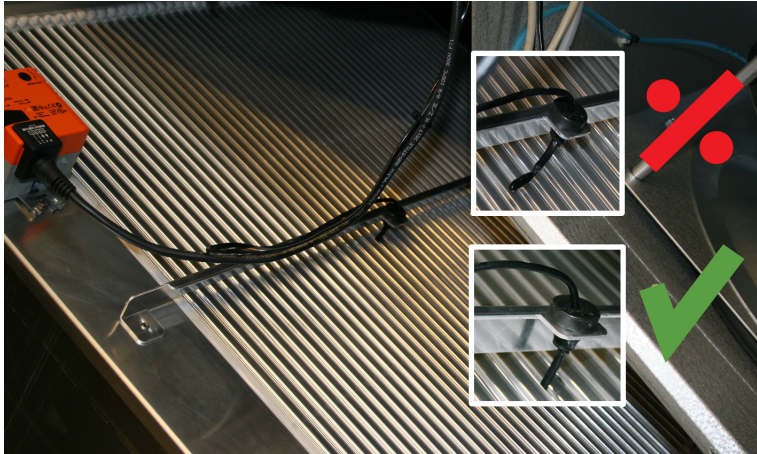
| Step | Action |
|------|---|
| 1 | Switch off the power supply to the unit at the isolation switch before opening the doors. |
| 2 | Pull out the fan section: Release the fixing screw on each sliding rail and undo the ties on the motor cables. Pull the fan unit out to the stop (two screws) on the sliding rails. |
| 3 | Clean the fan impeller with a vacuum cleaner and wipe down with a damp cloth if necessary. Clean the blades on the fan impeller carefully to avoid disrupting the balance. If there are weights on the fan impeller, these must not be removed. |
| 4 | After cleaning the fan impeller, check that the unit does not vibrate when operating. |

5.4.3 Cleaning the heating coils

| Step | Action |
|------|--|
| 1 | Switch off the power supply to the unit at the isolation switch before opening the doors. |
| 2 | Vacuum clean the heating coil |
| 3 | Check that the fins on the heating coil are not deformed. <div style="display: flex; align-items: center; justify-content: center;">  <p>The fins are sharp.</p> </div> |

5.4.4 Cleaning the crossflow heat exchanger

| Step 1-11 | Action |
|-----------|---|
| 1 | Switch off the power supply to the unit at the isolation switch before opening the doors. |
| 2 | Pull the heat exchanger out of the VEX slightly and remove the plug from the bypass motor. Hold down the split pin under the plug with a screw driver, see photos: <div style="display: flex; justify-content: space-around; margin-top: 10px;">   </div> |
| 3 | Dismount the Tice sensor from the heat exchanger bracket (see photo step 10). |
| 4 | Remove the crossflow heat exchanger. Note the weight of the heat exchanger, see technical data – min. two persons for lifting. |
| 5 | Press the release button on the bypass motor and turn the damper with the louvres in open position. |

| Step 1-11 | Action |
|-----------|--|
| 6 | <p>The bypass motor must be dismantled before cleaning the heat exchanger with water, see photos:</p>  <p> Do not activate the release button on the bypass motor while it is dismantled, as this will alter the position of the motor compared to the damper.</p> |
| 7 | Clean the heat exchanger by flushing with hot water or by pressure washing. Max. water temperature. 90°C. |
| 8 | Mount the bypass motor. The damper must be in open position (louvres fully open), as for dismantling. |
| 9 | Shut the louvres, and replace the heat exchanger. |
| 10 | <p>Mount the Tice sensor. It is important to check that the Tice sensor is correctly positioned between the heat exchanger fins, as the sensor will not measure correctly otherwise.</p>  |
| 11 | Re-insert the plug for the bypass motor. |



6. Technical data

6.1 Weight, corrosion class, temperature ranges, etc.

Weight

| | |
|---|-------------|
| VEX total weight | 190 kg |
| Doors | 2 x 13.5 kg |
| Crossflow heat exchanger | 27 kg |
| Fan unit | 2 x 15.5 kg |
| VEX for transporting into building (without doors, heat exchanger and fan unit) | 105 kg |

Corrosion class

| | |
|-----------------|--|
| Corrosion class | Corrosion class C4 in accordance with EN ISO 12944-2 |
|-----------------|--|

Temperature ranges

| | |
|-------------------------|----------------|
| Outdoor air temperature | -40°C to +35°C |
| Ambient temperature | -30°C to +50°C |

At temperatures below -25°C (with outdoor installation), use of a thermostatically controlled heater in the automated control box is recommended.

HMI-panel

| | |
|---------------------|-------------|
| Ingress protection | IP20 |
| Ambient temperature | 0°C - +50°C |

At temperatures below 0°C the display may react more slowly than usual.

Fire thermostats

| | |
|---|-------------|
| Cut-out temperature, BT70 | 70°C |
| Cut-out temperature, BT50 | 50°C |
| Cut-out temperature, BT40 | 40°C |
| Max. ambient temperature, sensor | 250°C |
| Ambient temperature, thermostat housing | 0°C - +80°C |
| Sensor length | 125 mm |
| Ingress protection | IP40 |

Temperature drop before reconnection possible min. 15°K

Motor damper

| Motor damper type | LS (closing damper) | LSR (closing damper, spring return) |
|---------------------|---------------------|-------------------------------------|
| Type | LS315-24 | LSR315-24 |
| Designation | LSA/LSF | LSFR |
| Motor type | NM24-F | AF-24 |
| Rotation time | 75–150 s | open: 150 s close: 16 s |
| Ingress protection | IP42 | IP42 |
| Ambient temperature | -20°C to +50°C | -30°C to +50°C |
| Damper depth | 100 mm | 100 mm |

A maximum of two LSFR dampers or four LSA/LSF dampers may be connected.

6.2 Panel filters

| Data | VEX140 | | Device |
|---|-----------------------|----------------------|--------|
| | ePM ₁₀ 50% | ePM ₁ 55% | |
| Dimensions: h x w, 1 item per air direction | 490 x 648 | | mm |
| Panel filter thickness | 96 | | mm |
| Temperature resistant to | 70 | | °C |
| Filter class according to ISO 16890 | ePM ₁₀ 50% | ePM ₁ 55% | |
| Filter class according to EN 779 | M5 | F7 | |

Final pressure drop

For the final pressure drop over the filter, the lower of the following two methods is recommended.

- Final pressure drop = 3 x initial pressure drop
- Final pressure drop = initial pressure drop + 100 Pa

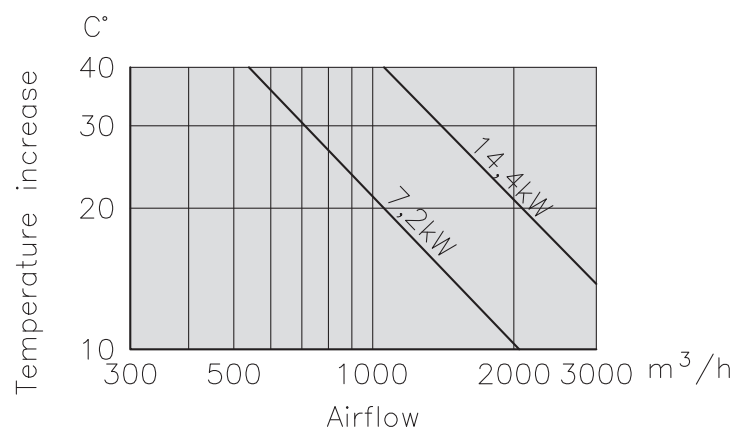
6.3 Electric heating coil

Electric heating coil

| HCE | |
|---|--------------|
| Voltage per electric heating element | 1 x 230V |
| Output | 1.2 kW |
| Supply voltage for connection box: | |
| Star connection | 3 x 400V + N |
| Thermal fuse, TSA70 | 70 °C |
| Thermal fuse, TSA90 | 90 °C |
| Temperature tolerance | ±5 K |
| Temperature drop before reconnection possible | 15 K |

Diagram - temperature rise

The diagram below can be used to determine the air temperature increase at a given airflow and electric heating coil size.

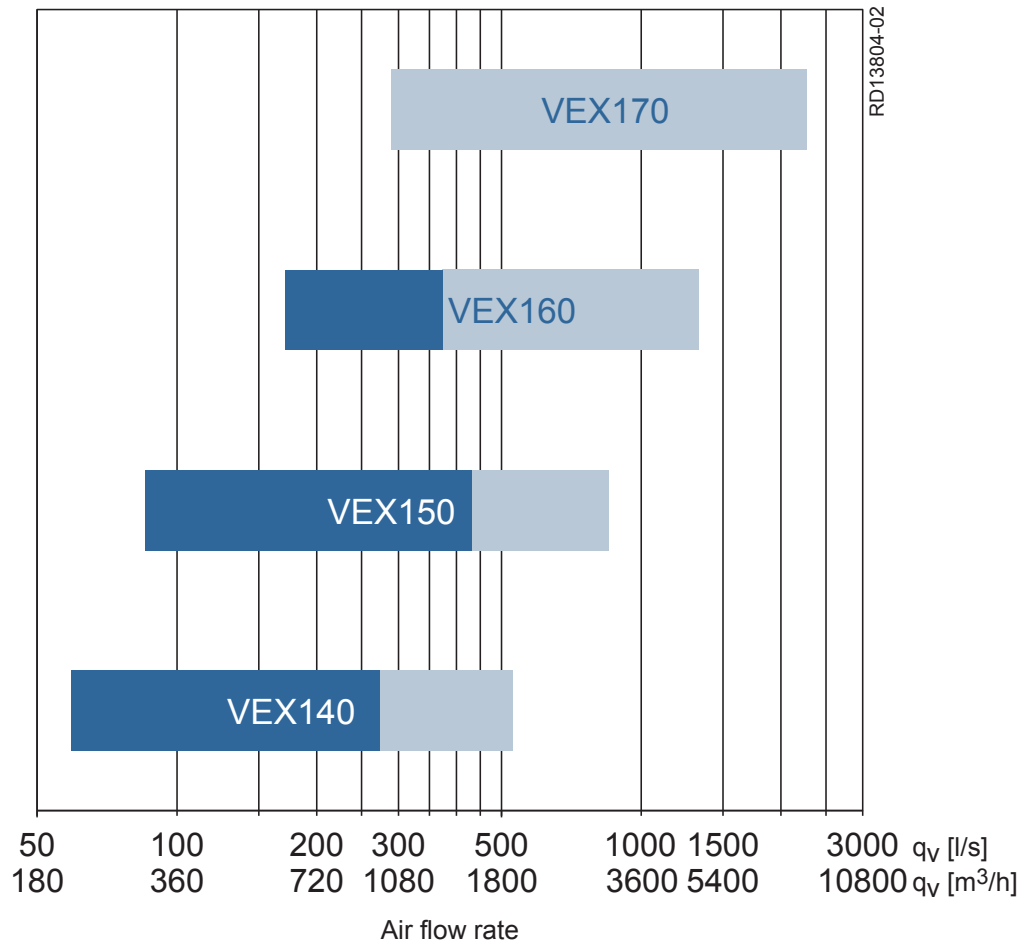


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Examples: Pressure drop across electric heating coil

- At airflow of 1800m³/h:
- HCE 7.2 kW : 10 Pa
 - HCE 14.4 kW: 15 Pa

6.4 Capacity diagram



Recommendation



You are recommended to make a more precise calculation of the unit's capacity with the EXselect calculation program, available on the EXHAUSTO website.

6.5 EC Declaration of Conformity

The document is located in the door of the VEX unit. It is also available on the EXHAUSTO website by searching under the document or order number.

6.6 Ordering spare parts

Find production number

When ordering spares, please state the relevant production part number. This will ensure that the correct parts are delivered. The production number is given on the front of the VEX guidelines and on the VEX rating plate.

Contact: Contact your local EXHAUSTO office service department to order a spare part. Contact information is given on the back cover of these instructions. See also the "Layout" section for an overview of the position and designation of parts in the VEX.

6.7 Environmental declaration

Environmental documentation The unit can be disassembled into individual product parts when outworn and in need of disposal.

| Product parts | Material | Handling |
|--|--------------------------------------|---|
| Sheet parts | Aluzinc | For recycling after disassembly |
| Condensation tray | Stainless steel | For recycling after disassembly |
| Bypass dampers, heat exchangers and metal sections | Aluminium | For recycling |
| Insulation | Mineral wool | For recycling after disassembly |
| Door gasket | CFC and HCFC-free cellular rubber | Dumping or incineration |
| Fan motors, bypass motors | Aluminium, steel, copper and plastic | For recycling after disassembly |
| Control unit | Electronic components | For recycling by an authorised enterprise |
| Cassette filter | Fibreglass and plastic | Dumping or incineration |
| Unit is supplied on disposable pallets | Wood | Dumping or incineration |

Percentage weight

| Handling | Percentage weight of materials per unit |
|-------------------------|---|
| For recycling | 11% (mineral wool) |
| For recycling | 85% (63% Aluzinc, 16% aluminium, 3.5% steel/iron, 2% stainless steel and 1% copper) |
| Dumping or incineration | 2% (Wood, filter paper, cellular rubber) |
| Other | 1.5% (electronic components) |
| Total | 100% |



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