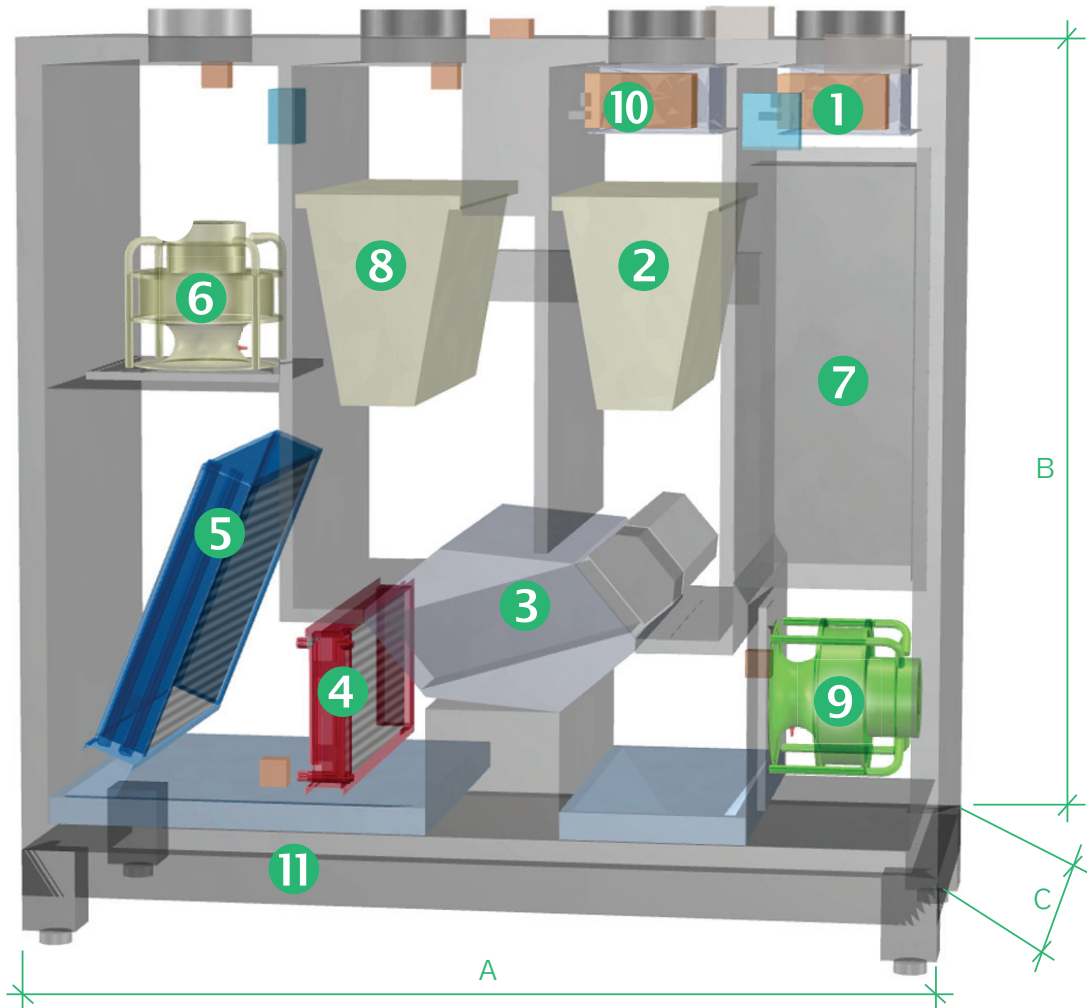


PREDEFINED TYPE VZ-1

Specification of dimensions, components and their parameters in the predefined type cannot be changed. Units for different requirements can be selected using selection options in the current version of the AeroCAD design software.

CONFIGURATION AND BASIC DIMENSIONS



- ① ⑩ **Internal rectangular dampers** consisting of frames and aluminium flaps are designed to close airflows and are fitted with ON/OFF controlled actuators.
- ② ⑧ **Bag filters** of F7 and M5 filtration class fitted with a filter insert are designed to be used as the first filtration stage.
- ③ The **plate counter-flow heat exchanger** is equipped with a heat exchanging insert made of thin aluminium fins and fitted with a bypass. As standard, the bypass is equipped with a contra-rotating damper which is linked with a damper in the heat-exchange insert cross section.
- ④ ⑤ The heat exchanging surface of the **water cooler** and **water heater** is created by aluminium fins pressed with an interference on the copper tubes. The headers are made of welded steel pipes and finished with a synthetic coating.
- ⑥ ⑨ Highly effective **fans** are fitted with low-energy variable-speed EC motors.
- ⑦ The integrated and easy-to-access switchboard of the **VCS control unit** enables full control, high stability, safety and easy handling with optional remote control using the Remak mobile application. Among others, this unit is equipped with temperature sensors detecting the temperatures in the inlet air duct and outdoor air and with a separate room temperature sensor.
- ⑪ The **base frame** is made of galvanised sheet steel and is equipped with 185 mm high support legs.

CAKE VZ-1

PERFORMANCE PARAMETERS

| Size (CAKE performance range) / Order code | VZ-1 | VZ-1-E18-Round-In-Int-35-0 (28) |
|--|----------------------|---------------------------------|
| Air flow rate (inlet)/air flow rate (outlet) | m ³ /h | 750 / 750 |
| External pressure (inlet)/external pressure (outlet) | Pa | 350 / 350 |
| Air-handling unit dimensions A / B / C (see the diagram) | mm | 1613 / 1493 / 850 |
| Air-handling unit duct connection diameter | mm | 200 |
| Air-handling unit weight | kg | 376 |
| Number of phases/Voltage/Frequency | - / V / Hz | 3 / 400 / 50 |
| Total current I _{max} | A | 7 |
| Total air-handling unit input | kW | 0.68 |
| SFP _{INT} | W.m ⁻³ .s | 920 |
| ERP Conformity | YES | Ecodesign 2018 |
| Heat recovery efficiency (incl. condensation) | % | up to 90* |
| Heat recovery output | kW | 8.2 |
| Water heater output (temperature gradient 70/50 °C)* | kW | 1.5 |
| Water heater connecting diameter | - | DN 10 |
| Water cooler output (temperature gradient 6/12 °C)* | kW | 3.5 |
| Water cooler connecting diameter | - | DN 15 |
| Mixing Set Type (water heater) | - | SUMX 1/EU |
| Mixing Set Type (water cooler) | - | SUMX 1/EU |
| Connecting diameter of the condensate draining piping | - | DN 30 |

*Design parameters of the air for calculation (in conditions according to EN 308):

Winter operation: inlet -15 °C/95 % rH, outlet 21 °C/45 % rH; **Summer operation:** inlet 32 °C/40 % rH, outlet 22 °C/55 % rH

NOISE PARAMETERS

| Total sound power level L _{WA} [dB(A)] | Inlet | Outlet | Surroundings |
|---|-------|--------|--------------|
| Supply air | 74 | 80 | 54 |
| Extract air | 73 | 79 | 54 |
| Sound pressure level L _{D3} (dB(A)) at distance of 3 m | | | 37 |

FAN PERFORMANCE CHARACTERISTICS

