



High Efficiency Heat Recovery Units with Rotary Wheel RHE Series

Serial RHE

RHE 700

High efficient heat recovery units up to 88% with rotary wheel, plug-fans with backward curved blades and EC external-rotor motor.

Pre-configured control system for easy start-up.

The casing is made of 50 mm, self-supporting double skinned panels (mineral wool, 40 kg/m³, thermal conductivity 0.037 W/ mK). The outer skin is made from coated steel (RAL7024) with a high resistance against corrosion (class: RC3) and UV light (class: RUV3) according to EN 10169 and the inner skin is made from galvanised steel.

Support feet are made from 3 mm, RAL9011 coated, 100 mm height (except RHE 6000 to 10000 models, which are base-mounted), with possibility to fit anti-vibration mounts or leveling feet (as accessories).

Easy access to all components via large hinged front doors.

Circular inlet and discharge connection flanges with EPDM rubber seal strip, VELODUCT® tightness class D up to size 3500 HD, rectangular connections for the sizes 4500 VD, 6000, 8000, 10000 and 15000.

Fan / Motor

Plug-fan with backward curved blades, external rotor EC motor with maintenance free ball bearings and permanent lubrication, with integrated electronic protection (locked rotor, phase failure, under-voltage, overtemperature, short-circuit).

Protection IP54, Class B.

(RHE-8000, 10000 and 15000 models, Class F)

Application

Public buildings, offices, stores, schools, restaurants.

Range

Versions:

- horizontal discharge HD
- vertical discharge VD
- horizontal discharge for outdoor installation HD OI

Sizes: 700 m³/h, 1300 m³/h, 1900 m³/h, 2500 m³/h, 3500 m³/h, 4500 m³/h, 6000 m³/h, 8000 m³/h, 10000 m³/h and 15.000 m³/h.

Models:

- RHE D: without additional heater
- RHE DI: with built-in electric post-heating
- RHE DC: with built-in hot water coil
- RHE DFR: with 2-row coil built-in reversible hot/chilled water integrated (the cold water version coil only for the models HD).
- RHE DFR4R: with 4-row coil built-in reversible hot/chilled water integrated (for models 6000, 8000, 10000 and 15000)
- RHE DC/DF: with 2 independent integrated coils (chilled water and hot water).
- RHE DX: direct expansion integrated coil (only for horizontal discharge, HD versions, except for models 15000).

Control (Pul&Play):

VAV- variable air volume

Fan speed can be adjusted with a 0 - 10V signal from the remote touchscreen panel (included) or an external CO₂, temperature or humidity sensor (accessories).

CAV - constant air volume

Manual pre-setting of 2 working points. The fans are controlled separately.

COP - constant pressure

Constant pressure measured by an external sensor (accessory).



Technical data

