

Technical Data Sheet

CODE 45395

VORT NRG 3000 EC EH

Heat recovery units equipped with static heat exchangers



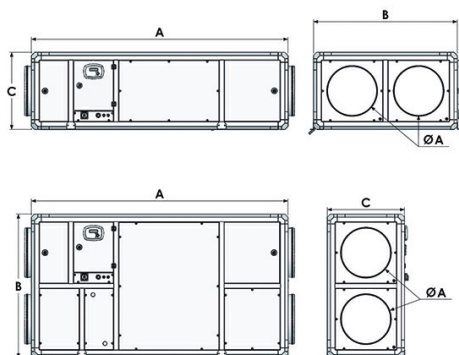
Certifications



TECHNICAL AND PERFORMANCE DATA

| | | | |
|---|-------|---|------|
| Filter class for extract air | G4 | Nominal Diameter (mm) | 450 |
| Filter class for supply air | F7 | Number of Phases (Ph) | 3+N |
| Frequency (Hz) | 50 | Power pre-heater | 6,75 |
| Max ambient temperature for continuous operation (°C) | 40 | Protection current | 15,7 |
| Min ambient temperature for continuous operation (°C) | -20 | Voltage (V) | 400 |
| Motor Class | B | Weight (Kg) | 400 |
| Motor IP protection | 54 | Delivery max (m³/h) | 2550 |
| Motor Power (W) | 700X2 | Sound power level - radiated Lw [dB(A)] | 59 |

DIMENSIONS



| | |
|-------------------------|------|
| Size A (mm) | 2345 |
| Size B (mm) | 1315 |
| Size C (mm) | 705 |
| Size D (mm) | 355 |
| Size E (mm) | 605 |
| Size F (mm) | 607 |
| Size F1 (mm) | 1376 |
| Size F2 (mm) | 362 |
| Vents diameter Ø A (mm) | 450 |

PER INFORMAZIONI:

Servizio al Cliente: tel +39 02 90699395 premendo 1 dopo messaggio registrato (consulenza su prodotti e impianti)

Pre & Post Vendita: fax +39 02 90699302

Email prevendita: prevendita@vortice-italy.com

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DESCRIPTION

- Frames consisting of rounded aluminium profiles with built-in, polyamide made, spacers for class TB2 thermal break; corners made of reinforced polyamide; double skin (sandwich), 10/10 panels (inner side with galvanized steel sheet, outer side with pre-laquered metal sheet (RAL 7035) with protective film); insulation through 50 mm high density (M0) mineral wool.
- 2 EC motors, independently adjustable, external rotor type, integrating safety thermal cut-outs, with backward curved impellers directly driven by ball bearings; 2 speeds adjustable during the installation.
- Air-to-air, counter cross-flow, aluminium made heat exchanger whose high performance, certified by Eurovent, exceeds 90% according to EN 308 standard.
- Automatic pre-heater.
- Circular branch connections with lip seals to grant the system air tightness.
- 100% inner automatic by-pass.
- 2 filters, respectively G4 on extracted air (stale) and F7 on (fresh) air supply, both mounted upstream of inner components, on runners fitted with lip seals to ensure effective air tightness.
- Access to filters and inner components by security latch on removable panels.
- Brackets crimped into the structure for fixing to the ground or ceiling/false ceiling.
- Inner slanted tray to assure the proper condensate removal at product horizontally installed.
- Advanced electronic control suite, including a control box enriched by a LCD display allowing:
 - o To independently adjust the fan speeds,
 - o To modulate the opening of the by-pass,
 - o To set a weekly, holiday and public holiday timer,
 - o To control the status of both filters,
 - o To integrate the unit in a BMS (communication protocols supported are MODBUS, BACNET and WEB TCP-IP),
 - o To set the unit operation mode in case of fire, to be allowed among 5 pre-defined fan control alternatives,
 - o The machine diagnostic.
- A podlockable local circuit breaker, mounted on front panel, allows to stop the unit in case of fault.

ACCESSORIES



TOUCH LCD CP

Code 21025

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