



DECENTRALISED HEAT RECOVERY UNIT WITH HEAT EXCHANGER

APPLICATION

Decentralised heat recovery unit, ideal for ceiling installation in public places, such as schoolrooms, offices, shops, waiting rooms. Suitable for a working environment free of aggressive, corrosive and/or explosive agents.

CONSTRUCTION

- Outer fan casing manufactured from powder coated galvanised sheet steel providing long lasting and robust construction. The unit is finished in white RAL 9010.
- Internal structure manufactured from EPP (expanded polypropylene) providing reduced sound emissions and maximised air tightness and thermal insulation.
- Horizontal single row air supply and extract grilles with individually adjustable blades, made from anodised aluminum, with 20mm pitch.
- EC external rotor motors fitted as standard for energy saving. Provided with integral thermal protection, mounted on sealed for life ball bearings.
- Backward curved centrifugal impeller dynamically balanced and directly driven by the motor to provide a smooth airflow through the unit.
- Highly efficient counterflow heat exchanger to maximise thermal recovery.

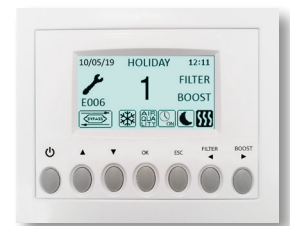
FEATURES & BENEFITS

- Ease of installation and cost saving: no air distribution system is needed.
- Simplified electric wiring: the unit is supplied pre-cabled.
- ISO Coarse 60% filter (G4) supplied as standard. ISO ePM1 65% filter (F7) on request.
- Integral automatic bypass for free cooling during the summer season.
- Automatic anti-frost protection to prevent frost building up on the intake side of the heat exchanger.
- Two drainage holes to meet climate requirement.
- Tested to the latest standards: units are tested in the TÜV Rheinland accredited internal laboratory at Aerauliqa according to the operating document IEC OD 2048 (level CTF1) for the IEC 60335-1 and IEC 60335-2-80 Standards, meaning accurate, up to date information on electrical safety, performance and noise level that can be relied upon. Designed and manufactured in accordance with EN60335-2-80 (Low Voltage Directive) and the EMC Directive (Electromagnetic Compatibility).

OPERATION

The unit is supplied with a multi-function LCD display (CTRL-DSP) for automatic control and convenience, providing:

- 3 speed settings (adjustable).
- Boost option.
- Holiday mode.
- Night mode.
- Weekly timer.
- Bypass setting.
- Airflow balancing.
- Filter replacement and fan failure indicator.
- Working hour counter.
- Setting saving and loading.
- Suitable for remote ambient sensors (SEN-HY, SEN-PIR).
- Modbus interface.



CTRL-DSP
(supplied as standard)

QRD2

Performance and Compliance with ErP Directive, Regulation 1253/2014

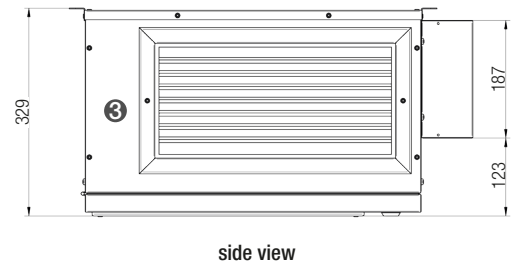
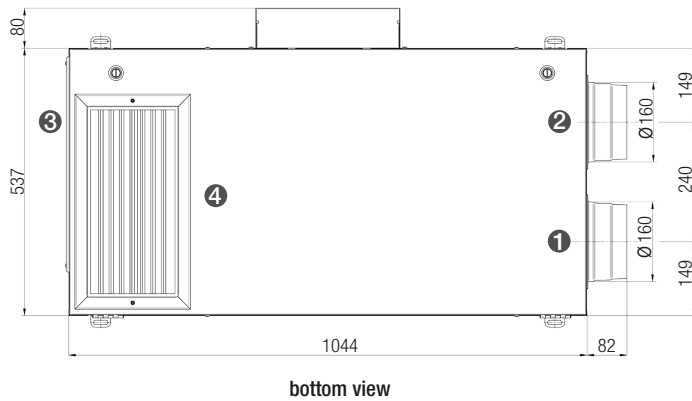
Description		QRD2
Nominal air flow (max)	m ³ /h	340
Static pressure ⁽¹⁾	Pa	30
Sound pressure @ 5m ⁽²⁾	dB(A)	41
Sound power ⁽²⁾	dB(A)	60
Max consumption	W	170
Max current	A	1,5
Voltage/Phase/Frequency	V/Ph/Hz	230/1/50
Thermal efficiency according to ErP 2018 ⁽³⁾	%	78

(1) at the nominal airflow

(2) in normal conditions, only for comparative purposes.

(3) in dry conditions at the nominal airflow: external air 5°C, ambient air at 25°C

Dimension (mm) and Weight (kg)



	Airflow
1	Intake air from outside
2	Exhaust air to outside
3	Supply air to inside
4	Extract air from inside