QRD2

DECENTRALISED
HEAT RECOVERY UNIT

APPLICATION

Decentralised heat recovery unit, ideal for ceiling installation in public places, such as schoolrooms, offices, shops, waiting rooms. Suitable for 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% **filters** (G4) supplied as standard. ISO ePM1 60% filter (F7) on request.

Differential pressure switch to check the air filter clogging status.

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.

Double drain connections 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).
- Connection to remote pre-heating element.
- Modbus interface.

CTRL-DSP
(supplied as standard)

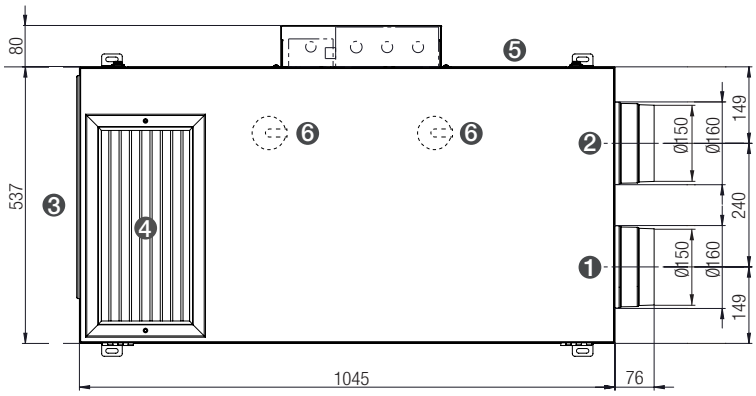
QRD2

Performance and Compliance with ErP Directive, Regulation 1253/2014

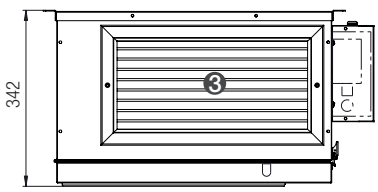
Description		QRD2
Nominal air flow (max)	m^3/h	340
Static pressure(1)	Pa	30
Sound pressure @ 5m(2)	dB(A)	41
Sound power (2)	dB(A)	60
Max consumption	W	170
Max current	A	1,5
Voltage/Phase/Frequency	V,Ph,Hz	220-240,1,50/60
Thermal efficiency (3)	%	78

(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

Dimensions (mm) and Weight (kg)



Bottom view



Lateral view

Model	QRD2
Weight	30
1	Intake air from outside
2	Exhaust air to outside
3	Supply air to inside
4	Extract air from inside
5	Condensate drainage pipes opening (pipes not supplied)
6	Condensate drainage elbow