Quantum AX

DECENTRALISED MECHANICAL EXTRACT VENTILATION

APPLICATION

Single flow decentralised mechanical ventilation unit for continuous running. Ideal for application in bathroom, toilet and small/medium premises.

Suitable to extract stale air directly to the outside or through short length ducting. Units can be wall/panel, ceiling and window mounted.

SPECIFICATION

Casing made of high quality ABS provides long lasting shock-proof and robust construction. The unit is finished in white RAL 9010 and are UV resistant.

Unique design winglet-type impeller, providing enhanced aerodynamic properties, low noise and increased efficiency.

High efficient EC brushless motor with integral thermal protection, mounted on sealed for life high quality ball bearings. Designed for continuous running: suitable for intermittent operation too.

FEATURES & BENEFITS

IPX4 protection degree.

Aesthetic front flat cover for modern interior design, easily removed for cleaning without the need of tools.

Aerodynamic deflectors on the housing to reduce air turbolences and designed to maximise airflow.

Rigid optimised spigot preventing distortion.

Low power consumption: EC motor optimised for continuous running applications (24/24h).

Multi speed selection to meet different ventilation requirements:

- trickle speed: can be selected among 3 options either in case of air exhausting directly to the outside or of ducted installation;
- Boost speed (max speed).

Totally recyclable plastic components, environmentally friendly.

Double insulated: no earth connection is required.

Tested to the latest standards: units are tested in the TÜV Rheinland recognised laboratory at Aerauliqa, meaning accurate, up to date information on electrical safety, performance and noise level that can be relied upon. Energy efficiency tested at indipendent laboratory BRE (UK). Designed and manufactured in accordance with EN60335-2-80 (Low Voltage Directive) and the EMC Directive (Electromagnetic Compatibility).

VERSIONS

Quantum AX

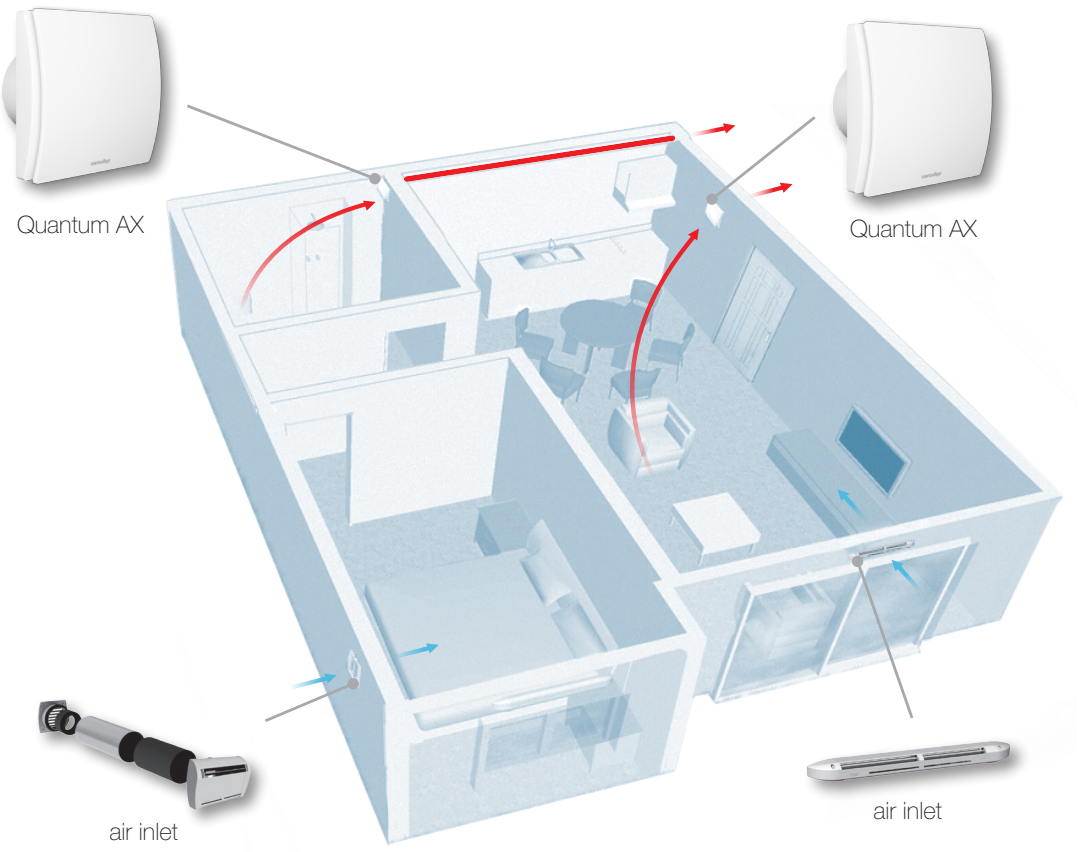
The unit continues to run at the selected trickle speed. Boost speed is manually activated via remote switch or ambient sensor like SEN-HY, SEN-PIR, or via light switch.

Quantum AX HT

The unit is equipped with an electronic circuit having a humidity sensor on board (adjustable from 50% to 95% RH) and a timer (adjustable from ± 0' to 30'). Operation: when the percentage of relative humidity is higher than the pre-set threshold, the fan automatically increases speed. When the relative humidity goes beneath, the fan goes back running at the trickle speed after the over-run period is elapsed. The maximum speed can be manually activated via remote switch: a led indicates when the switch is on.

Quantum AX

Example of a complete ventilation system



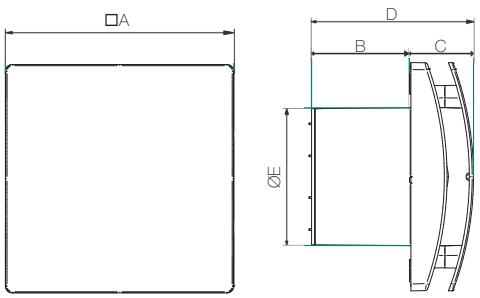
Application: ideal solution in case of renovation.

How it works: the decentralised mechanical ventilation unit (Quantum AX) continuously extracts the stale air from the wet rooms directly to outdoor with the highest acoustic comfort.

Energy saving: the EC brushless motor significantly reduce the electricity consumption.

Indoor Air Quality: a correctly specified mechanical ventilation system can ensure the quality of the indoor air is constantly maintained for the health and well-being of the occupants as well as of the building.

Dimensions (mm) e Weight (kg)



Model	Quantum AX 100	Quantum AX 150
□A	164	218
B	70	97
C	46	52
D	116	149
ØE	99	148
Weight	0,6	1,2

Quantum AX

Performances

Model	Quantum AX 100	Quantum AX 150
Air-flow m³/h	max 83 min 27	max 187 min 29
Power consumption W	max 2,6 min 1,0	max 6,5 min 1
Sound pressure db(A) @ 3m(1)	max 26 min 11	max 35 min from < 9
Ambient temperature °C max	50	50
Degree of protection IP	X4	X4
Marking	CE	CE

- air performance measured according to ISO 5801 a 220-240V ~ 50Hz, air density 1,2Kg/m³.
- data measured in the TÜV Rheinland recognised laboratory in Aerauliqa.

(1) sound pressure level @ 3m in free field, for comparative purposes only.

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Type Approved
Safety
Regular Production
Surveillance
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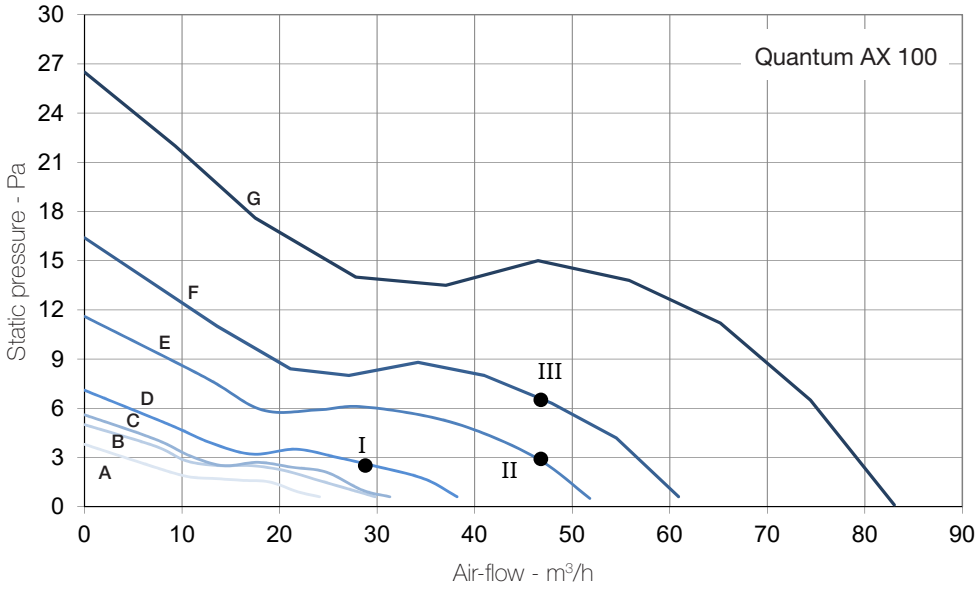
Performance curve

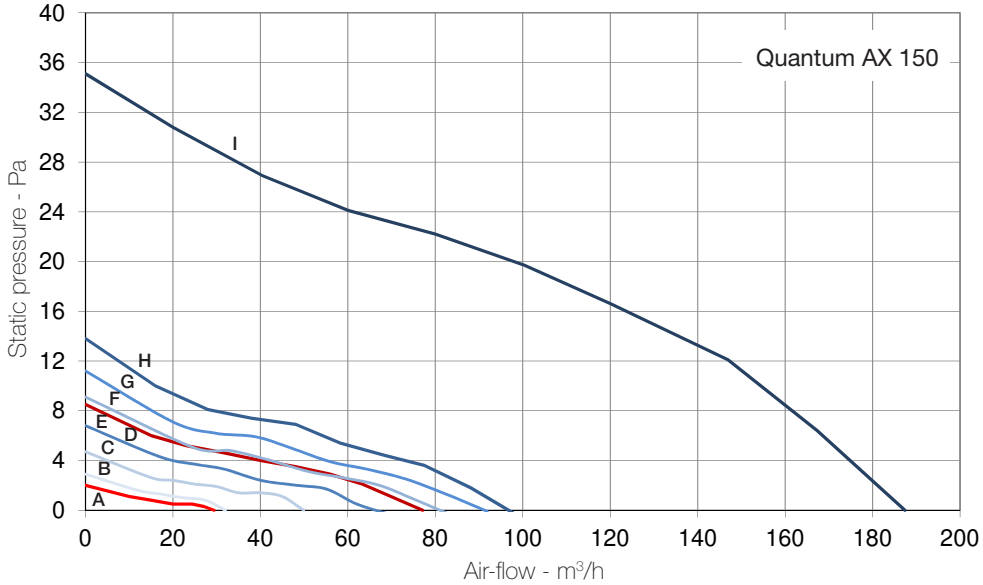


Curve	Setting(2)	W max	m³/h max
A	DIP 001	1,0	27
B	DIP 010	1,1	33
C	DIP 101	1,1	35
D	DIP 110	1,2	39
E	DIP 011	1,5	53
F	DIP 111	1,7	62
G	BOOST	2,6	83

(2) dip switch configuration on board.

Working point	W	m³/h	SPI (W/m³/h)	dB(A) @3m(3)
I	0,8	29	0,0276	13
II	1,2	47	0,0255	21
III	1,7	47	0,0362	23

(3) sound pressure level @ 3m in free field, for comparative purposes only.



Curve	Setting(2)	W max	m³/h max
A	DIP 000	1,0	29
B	DIP 001	1,0	32
C	DIP 010	1,2	50
D	DIP 011	1,3	68
E	DIP 100	1,3	77
F	DIP 101	1,5	83
G	DIP 110	1,7	92
H	DIP 111	2,0	98
I	BOOST	6,5	187

(2) dip switch configuration on board.