Quantum MX

DECENTRALISED MECHANICAL EXTRACT VENTILATION CONSTANT FLOW

APPLICATION

Single flow decentralised mechanical ventilation unit for continuous running, Ø100mm, constant volume and low consumption. Ideal for application in bathroom, toilet and small/medium premises. Suitable to extract stale air directly to the outside or through medium-long 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

High efficient **impeller**, providing enhanced aerodynamic properties, low noise and increased performances.

EC brushless motor with integral thermal protection, mounted on sealed for life high quality ball bearings to assure a longer fan life and ideal for cold climates.

7 segment LED display, visible by removing the design front cover.

FEATURES & BENEFITS

IPX4 protection degree.

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

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

Multi-speed, with adjustable minimum, intermediate and maximum speeds among different settings.

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

Constant flow option, to speed up or slow down the unit depending on the variations of the resistances caused by long length ducting or external windy conditions.

Intelligent control of humidity and **run-on timer**, to adapt the fan operation to the tenant's habits and assure top acoustic comfort especially at night time.

Ease of configuration through external buttons.

Run hour counter integrated.

Additional safety feature: when the design front cover is removed, the impeller stops turning to configure the unit.

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.
Designed and manufactured in accordance with EN60335-2-80 (Low Voltage Directive) and the EMC Directive (Electromagnetic Compatibility).

OPERATION

The unit continues to run at the selected minimum speed which automatically increases to intermediate speed if either humidistat or run-on timer are activated. The humidity threshold can be set between 65% and 95% R.H.; the run-on timer can be adjusted between 1 and 25 minutes. The maximum speed can be activated through dedicated remote on/off switch, ambient sensor (e.g. SEN-HY or SEN-PIR), or through light switch.

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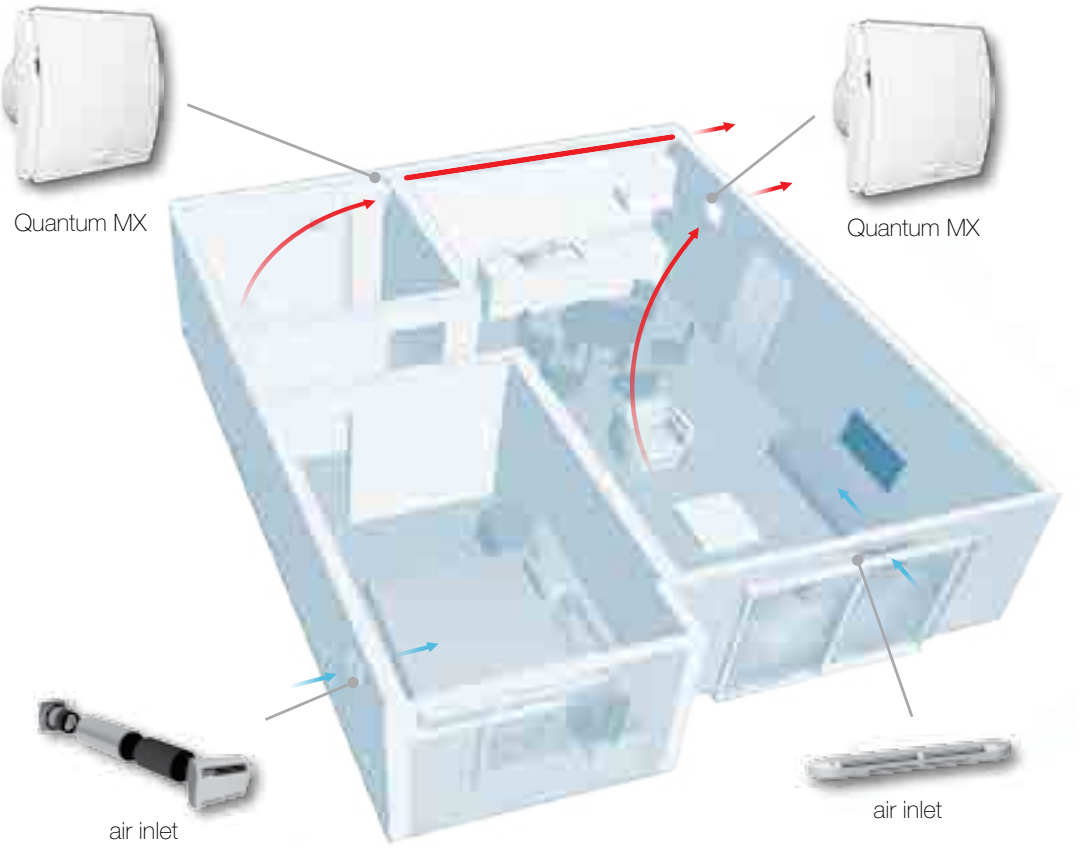
Example of a complete ventilation system



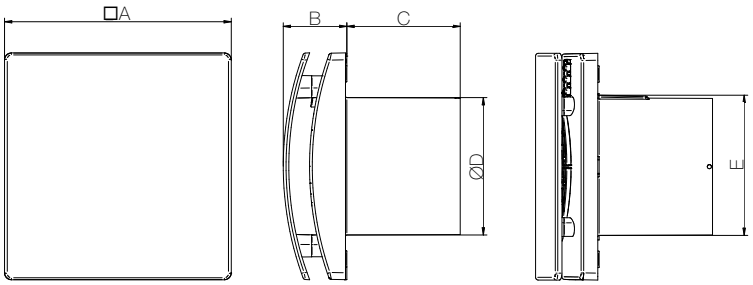
Application: ideal solution in case of renovation.

How it works: the decentralised mechanical ventilation unit (Quantum MX) 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 MX 100
□A	164
B	46
C	82
ØD	99
E	101
Weight	0,6

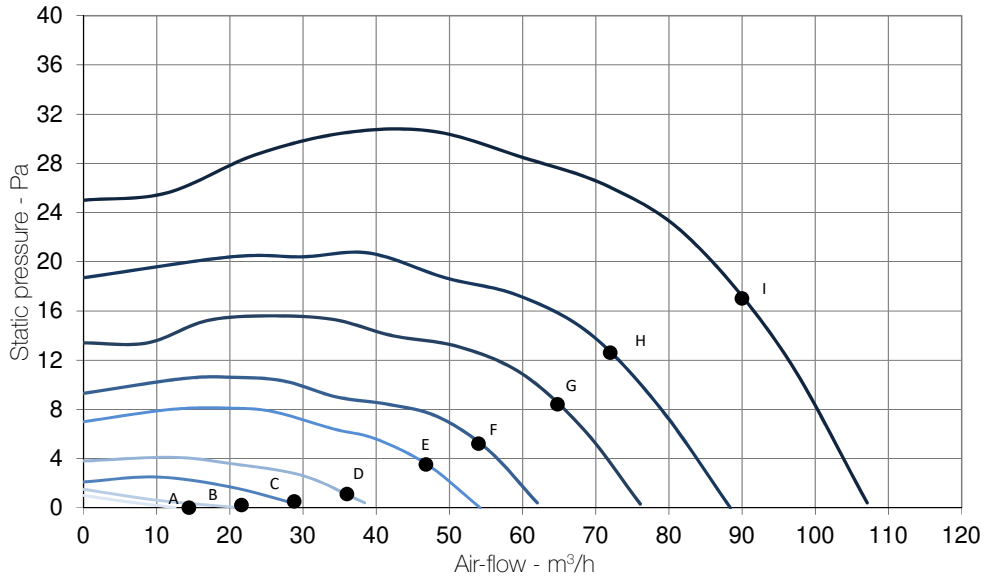
Performances

Model	Quantum MX 100
Air-flow m³/h	max 90 min to 15 a 47
Power consumption W	max 5 min to 1,5 a 2,2
Sound pressure db(A) @ 3m(1)	max 32 min to <9 a 15
Ambient temperature °C max	40
Degree of protection IP	X4
Marking	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.

Performance curve - installation: through wall



Curve	Setting(2)	W	l/s	m³/h	dB(A)(1) @3m	SPI (W/m³/h)
A	04	1,5	4	15	< 9	0,104
B	06	1,6	6	22	< 9	0,074
C	08	1,8	8	29	9	0,062
D	10	2,1	10	36	10	0,058
E	13	2,2	13	47	15	0,047
F	15	2,5	15	54	18	0,046
G	18	3,2	18	65	22	0,049
H	20	3,8	20	72	26	0,053
I	25	5	25	90	32	0,059

(2) Configuration on board. Installation type: through wall

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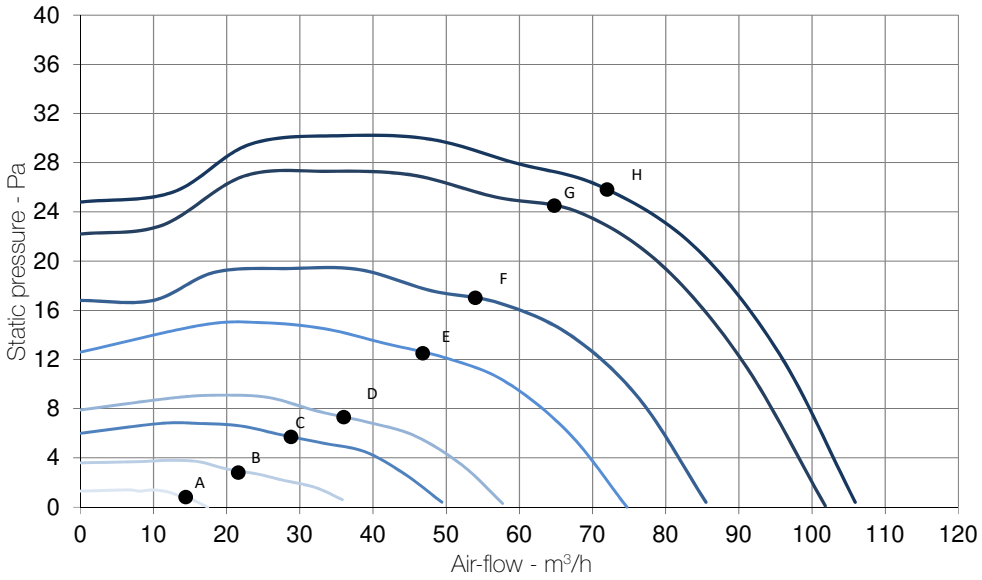
Performance curve - installation: in-room



Curve	Setting(3)	W	l/s	m³/h	dB(A)(1) @3m	SPI (W/m³/h)
A	04	1,9	4	15	< 9	0,132
B	06	1,9	6	22	9	0,088
C	08	2,3	8	29	12	0,080
D	10	2,3	10	36	16	0,064
E	13	3	13	47	22	0,064
F	15	3,8	15	54	26	0,070
G	18	4,6	18	65	29	0,071
H	20	5	20	72	32	0,074

(3) Configuration on board. Installation type: in-room.