



NEW
MODEL



DECENTRALISED MECHANICAL EXTRACT VENTILATION CONSTANT FLOW

APPLICATION

Single flow decentralised mechanical extract ventilation unit, continuous running, Ø100mm and Ø150mm, 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 and ceiling 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 is UV resistant.

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

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

Stator with aerodynamic deflectors to reduce air turbulences and designed to maximise performance and efficiency.

FEATURES & BENEFITS

IPX4 protection degree.

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

Multi-speeds, with adjustable minimum and intermediate 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 length of ducting and/or external windy conditions.

Intelligent humidity control to increase ventilation only in response to actual variations in humidity, preventing unnecessary heat loss, energy consumption and noisy running.

Intelligent run-on timer to adapt the fan operation to the tenant's habits (the run-on period depends on the length of time the switched live connection is activated) and to assure top acoustic comfort especially at night (if switched live connection is activated for less than 3 minutes, speed does not increase).

Totally recyclable plastic components, environmentally friendly.

Double insulated: no earth connection required.

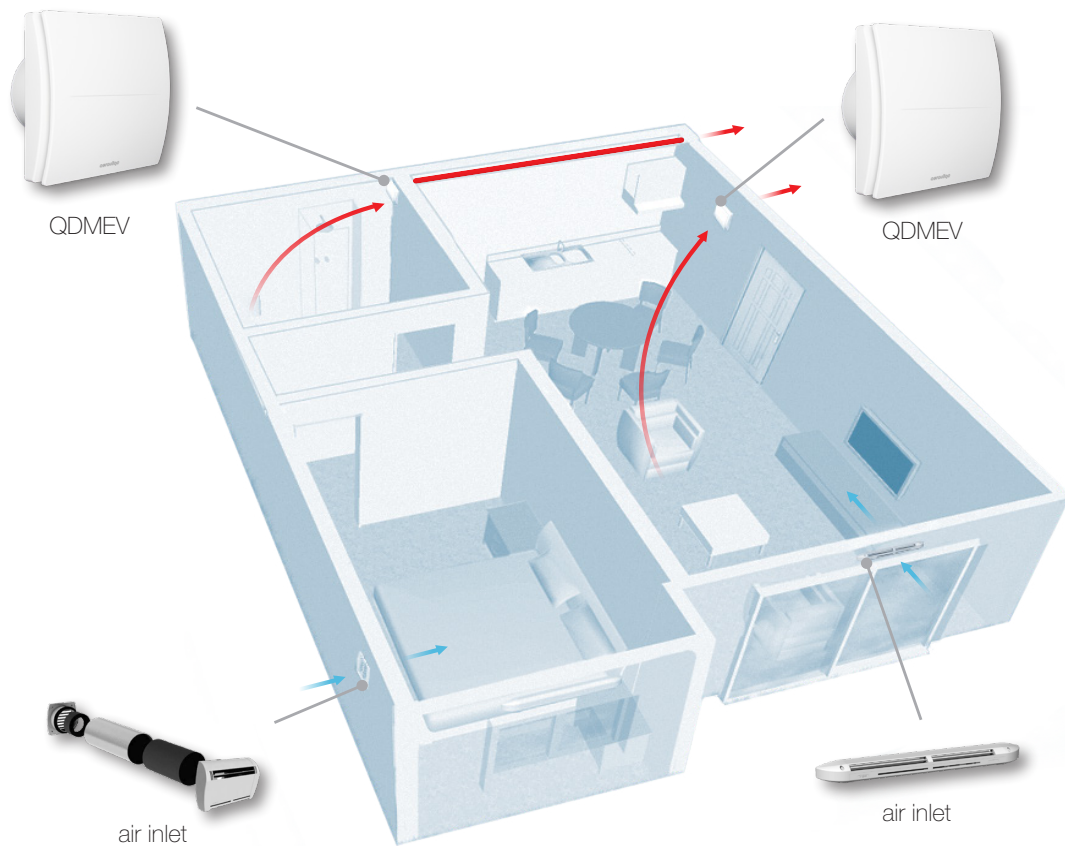
SAP PCDB listed: energy efficiency tested at independent laboratory BRE (UK) in accordance to the latest SAP10 dMEV requirements.

Tested to the latest standards: units are tested in the TÜV Rheinland accredited 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 runs continuously at selected minimum speed. Speed automatically increases to intermediate speed if either humidistat or run-on timer is activated. Maximum speed can be activated through dedicated remote on/off switch, ambient sensor (e.g. SEN-HY or SEN-PIR), or through connection to light switch.

Example of a complete ventilation system



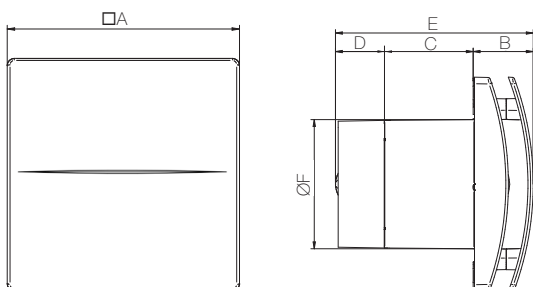
Application: ideal solution in case of renovation.

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

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



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

Dimensions (mm) e Weight (kg)



Model	QDMEV 100	QDMEV 150
A	164	218
B	46	52
C	70	97
D	36	-
E	152	149
F	99	148
Weight	0,6	1,2

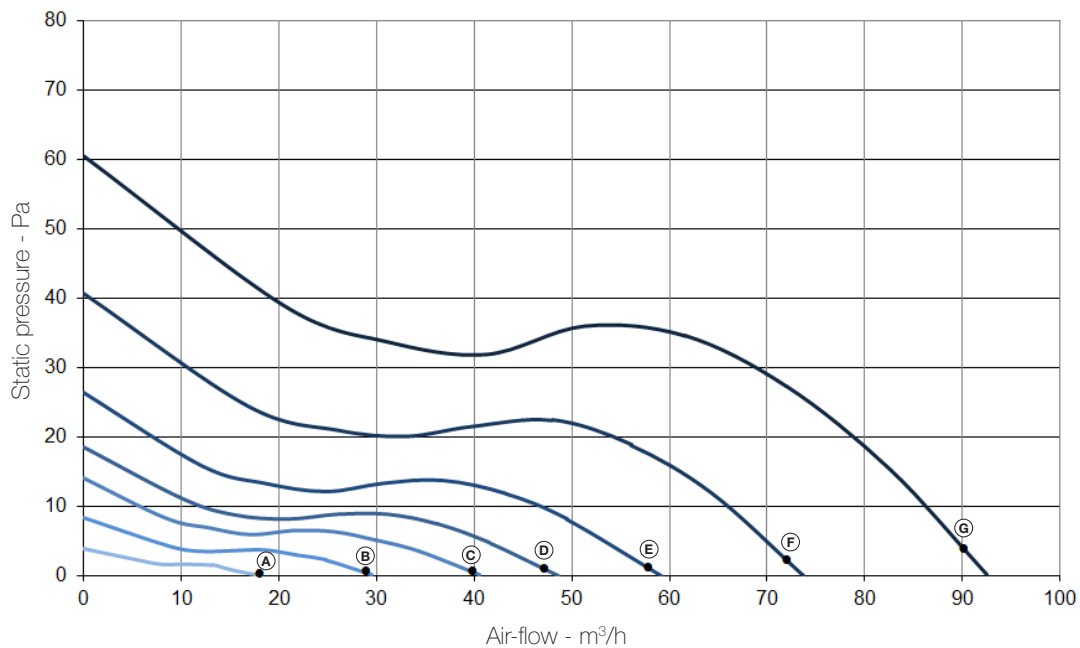
Performances

Model	QDMEV 100	QDMEV 150
Air-flow m ³ /h	max 90 min 18	max 180 min 18
Power consumption W	max 5 min 0,9	max 6,5 min 0,7
Sound pressure db(A) @ 3m ⁽¹⁾	max 38 min <9	max 36 min <9
Ambient temperature °C max	40	40
Degree of protection IP ⁽²⁾	X4	X4
Marking	CE UK CA 	CE UK CA 

- 220-240V ~ 50/60Hz
- air performance measured according to ISO 5801 @ 230V ~ 50Hz, air density 1,2Kg/m³.
- data measured in the TÜV Rheinland recognised laboratory in Aeraulica.
- (1) sound pressure level @ 3m in free field, for comparative purposes only.
- (2) IPX4 wall - IPX2 ceiling



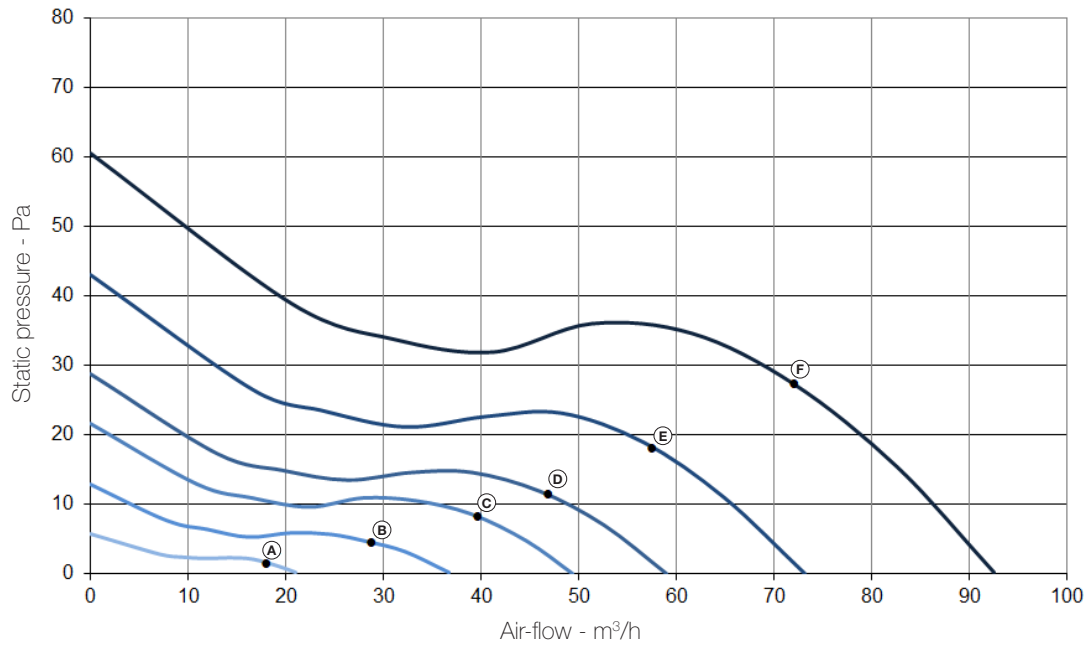
QDMEV 100 - Performance curve “through the wall”



Working point	m ³ /h	SPI (W/m ³ /h)	l/s	SPI (W/l/s)	W	dB(A) @3m
A	18	0,050	5	0,18	0,9	<9
B	29	0,042	8	0,15	1,2	12
C	40	0,038	11	0,14	1,5	16
D	47	0,038	13	0,14	1,8	21
E	58	0,038	16	0,14	2,2	29
F	72	0,044	20	0,16	3,2	36
G	90	0,056	25	0,20	5	38

Figures from the BRE test results, in “through the wall” installation.

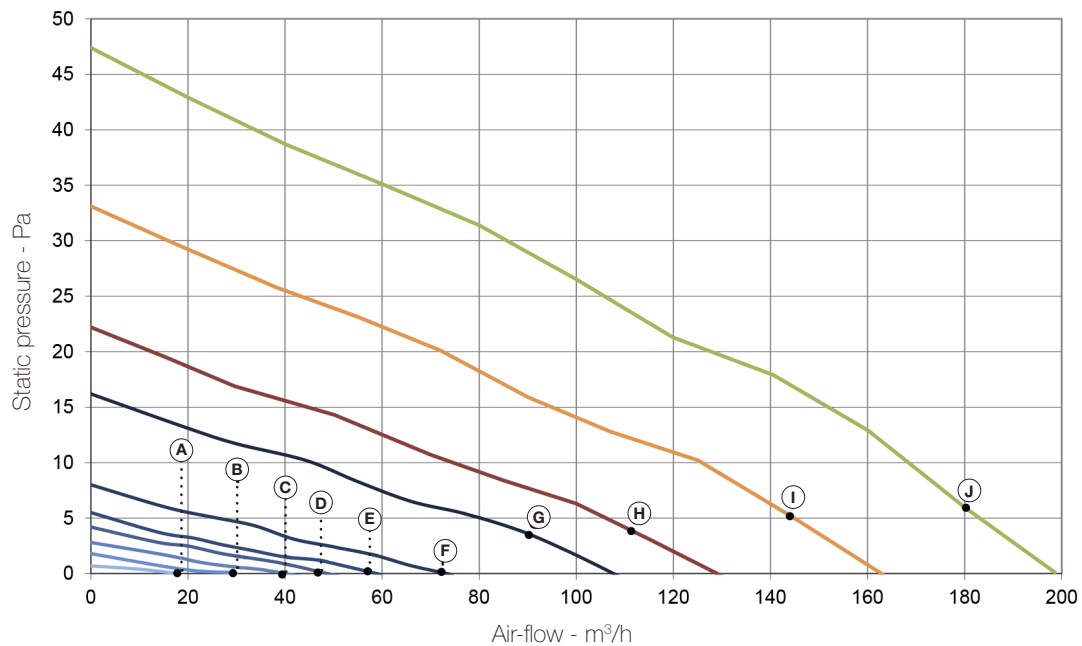
QDMEV 100 - Performance curve "in room"



Working point	m³/h	SPI (W/m³/h)	l/s	SPI (W/l/s)	W	dB(A) @3m
A	18	0,056	5	0,20	1	<9
B	29	0,049	8	0,18	1,4	17
C	40	0,048	11	0,17	1,9	24
D	47	0,049	13	0,18	2,3	29
E	58	0,057	16	0,21	3,3	34
F	72	0,069	20	0,25	5	38

Figures from the BRE test results, in "in room" installation.

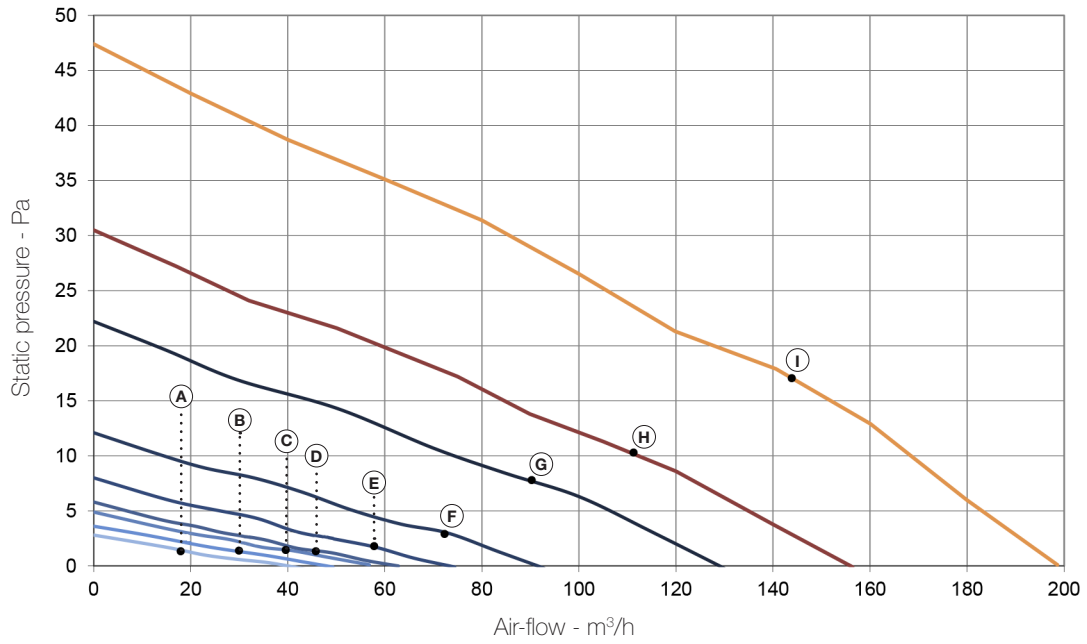
QDMEV 150 - Performance curve “through the wall”



Working point	m³/h	SPI (W/m³/h)	l/s	SPI (W/l/s)	W	dB(A) @3m
A	18	0,039	5	0,14	0,7	<9
B	29	0,028	8	0,10	0,8	<9
C	40	0,023	11	0,08	0,9	<9
D	47	0,019	13	0,07	0,9	<9
E	58	0,017	16	0,06	1	<9
F	72	0,017	20	0,06	1,2	10
G	90	0,022	25	0,08	2	20
H	112	0,022	31	0,08	2,5	23
I	144	0,028	40	0,10	4	30
J	180	0,036	50	0,13	6,5	36

Figures from the BRE test results, in “through the wall” installation.

QDMEV 150 - Performance curve "in room"



Working point	m ³ /h	SPI (W/m ³ /h)	l/s	SPI (W/l/s)	W	dB(A) @3m
A	18	0,050	5	0,18	0,9	<9
B	29	0,031	8	0,11	0,9	<9
C	40	0,025	11	0,09	1	<9
D	47	0,024	13	0,08	1,1	<9
E	58	0,021	16	0,08	1,2	10
F	72	0,021	20	0,08	1,5	15
G	90	0,028	25	0,10	2,5	23
H	112	0,032	31	0,12	3,6	29
I	144	0,045	40	0,16	6,5	36

Figures from the BRE test results, in "in room" installation.