

AER DMEV RANGE

DECENTRALISED
MECHANICAL EXTRACT
VENTILATION



FEATURES

- **Sleek & Attractive:** Modern, low-profile design to compliment the tenants home
- **Ultra-Efficient:** Extremely low energy consumption and running costs
- **Whisper-Quiet:** Near-silent operation, preventing unwanted noise and encouraging continuous use by the tenant
- **Unmatched Performance:** Consistently delivers exceptional results and tenant acceptability
- **Safe by Design:** Ideal for all bathroom zones including zone 1, ensuring your peace of mind and safety
- **Multiple Sizes:** Available in 100mm and 150mm diameter models to meet the demands of Building Regulations



AER DMEV RANGE



APPLICATION

- AER DMEV is a range of decentralised, continuously running extract fans that are ideal for kitchens, bathrooms, en-suites, utility rooms and toilets. Designed to extract stale air directly to the outside or through a ducted system. They can be wall, ceiling or window mounted (using a window mounting kit).

OPERATION

- The unit will run continuously at the speed selected by the engineer at the time of installation. If the fan senses a sudden rise in humidity, the automatic boost function will be activated to provide the required additional ventilation.
- Maximum speed can be achieved using the integral pull cord, remote switch or light switch. The fully adjustable run-on timer will activate if the maximum speed has been activated for a period of 3 minutes or more.

FEATURES/BENEFITS

- **5 Year Warranty:** Enjoy peace of mind with a 5 year warranty, ensuring the longevity and reliability of your AER DMEV system.
- **Attractive Design:** Modern front cover easily removed for cleaning and inspection.
- **Energy Efficient Operation:** Equipped with a low-energy ultra-quiet fan/motor assembly, the system ensures optimal ventilation with minimal power consumption.
- **Fully Adjustable:** Multiple speeds to allow easy and exact commissioning to meet desired ventilation rates.
- **Multiple Sizes:** Available in 100mm and 150mm sizes.
- **Constant Flow Function:** Guaranteeing desired performance and overcome resistance.
- **Intelligent Automatic Humidity Control:** To increase unit in response to rapid rise in humidity, preventing unnecessary heat loss, energy consumption and noise.
- **Intelligent Run-on Timer:** To operate only if the fan's boost function has been activated for a period of 3 minutes or more to prevent unnecessary energy consumption and noise.

FEATURES AND BENEFITS CONTINUED

- **IPX4 Rated:** Splashproof protection
- **Environmentally Friendly:** Plastic components are fully recyclable.
- **Double Insulated:** No earth connection is required.

INSTALLATION

Unit can be fitted in either zone 1 or 2 of a bath/shower room. For maximum efficiency the fan should be sited at a high level, as close as possible to the source of moisture. The transformer should be positioned ideally on an internal wall 100-150mm from the top of the ceiling (refers only to SELV version).

CONSTRUCTION

- Casing made of high quality ABS being 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 ensure 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.

TESTING AND CERTIFICATION

Units are tested to ensure 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).

PRODUCT RANGE AND CODES

PRODUCT	CODE
AER DMEV 100	10208
AER DMEV 100 SELV	10209
AER DMEV 150	10216

ACCESSORIES	CODE
WINDOW KIT AER DMEV 100	20686
WINDOW KIT AER DMEV 150	20845
GASKET KIT AER DMEV 100	20687
GASKET KIT AER DMEV 150	20846

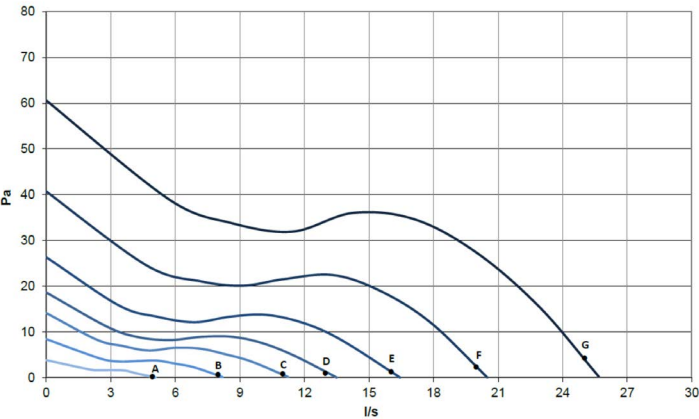
PERFORMANCE

PRODUCT	CODE	W min max	A min max	AIRFLOW l/s min max	Lp dB (A) 3m ⁽¹⁾ min max	°C max
AER DMEV 100	10208	0.9 5	0.055	5 25	<9 38	40
AER DMEV 100 SELV	10209	0.9 4	0.17	5 25	<9 38	40
AER DMEV 150	10216	0.7 6.5	0.07	5 50	<9 36	40

- 220-240V ~ 50/60Hz
- air performance measured according to ISO 5801 @ 230V ~ 50Hz, air density 1.2Kg/m³.
- (1) sound pressure level @ 3m in free field, for comparative purposes only.

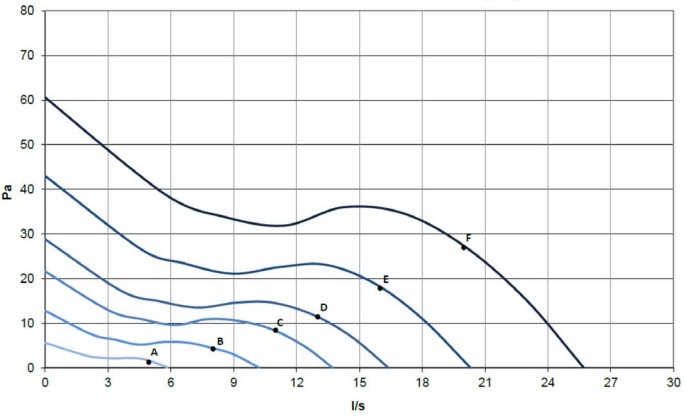


AER DMEV 100 - PERFORMANCE CURVE - THROUGH THE WALL



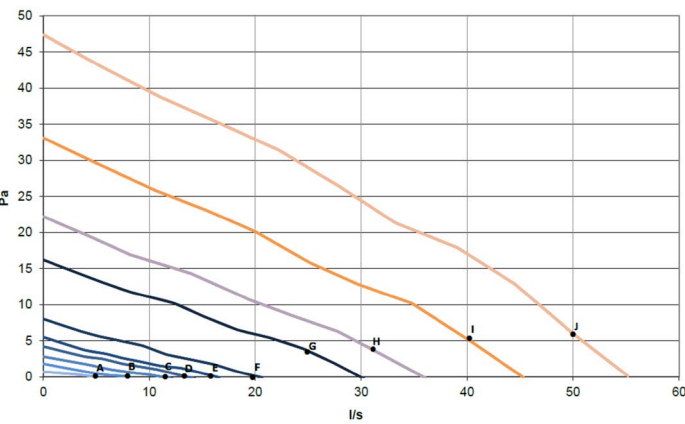
WORKING POINT	m³/h	SPI (W/m³/h)	l/s	SPI (W/l/s)	W	dB(A) @3m
A	18	0.050	5	0.18	0.9	<9
B	29	0.042	8	0.15	1.2	12
C	40	0.038	11	0.14	1.5	16
D	47	0.038	13	0.14	1.8	21
E	58	0.038	16	0.14	2.2	29
F	72	0.044	20	0.16	3.2	36
G	90	0.056	25	0.20	5	38

AER DMEV 100 - PERFORMANCE CURVE - IN ROOM



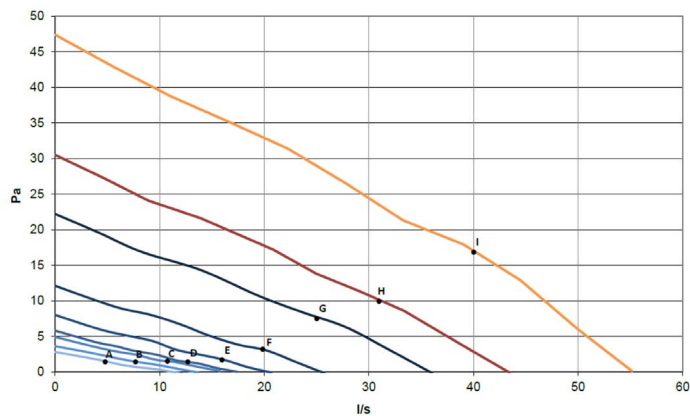
WORKING POINT	m³/h	SPI (W/m³/h)	l/s	SPI (W/l/s)	W	dB(A) @3m
A	18	0.056	5	0.20	1	<9
B	29	0.049	8	0.18	1.4	17
C	40	0.048	11	0.17	1.9	24
D	47	0.049	13	0.18	2.3	29
E	58	0.057	16	0.21	3.3	34
F	72	0.069	20	0.25	5	38

AER DMEV 150 - PERFORMANCE CURVE - THROUGH WALL

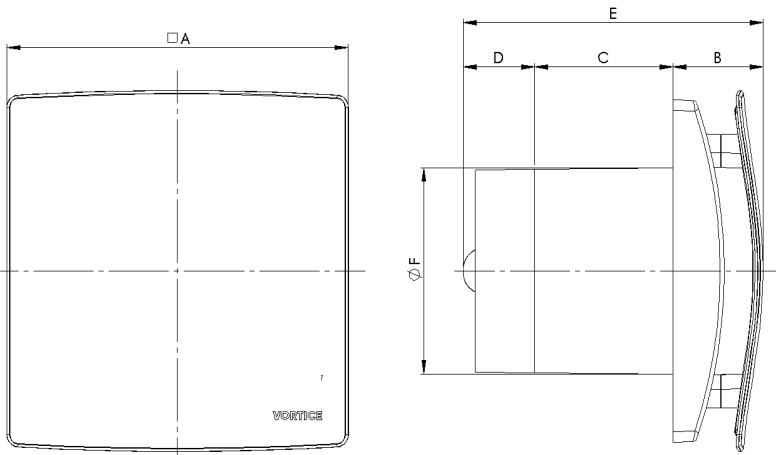


WORKING POINT	m³/h	SPI (W/m³/h)	l/s	SPI (W/l/s)	W	dB(A) @3m
A	18	0.039	5	0.14	0.7	<9
B	29	0.028	8	0.10	0.8	<9
C	40	0.023	11	0.08	0.9	<9
D	47	0.019	13	0.07	0.9	<9
E	58	0.017	16	0.06	1	<9
F	72	0.017	20	0.06	1.2	10
G	90	0.022	25	0.08	2	20
H	112	0.022	31	0.08	2.5	23
I	144	0.028	40	0.10	4	30
J	180	0.036	50	0.13	6.5	36

AER DMEV 150 - PERFORMANCE CURVE - IN ROOM



WORKING POINT	m³/h	SPI (W/m³/h)	l/s	SPI (W/l/s)	W	dB(A) @3m
A	18	0.050	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



SIZE	AER DMEV 100	AER DMEV 150
A	164	218
B	46	70
C	70	52
D	36	-
E	152	149
F Ø	99	148
WEIGHT (KG)	0.6	1.2

Dimensions in mm

DIMENSIONS

