

ECO dMEV

Inspired by the
award-winning
Filterless Extract Fan



Decentralised Mechanical Extract Ventilation Unit



About

The ECO dMEV has been designed and developed to offer the market a constant volume, continuously running decentralised extract fan to achieve the lowest power consumption, the lowest noise and the lowest life-cycle costs.

features & benefits

- Constant volume, continuously running extract ventilation with up to 5 adjustable trickle speed settings
- Fitted with low watt DC motors for minimum energy consumption down to 1.5 Watts
- Incredibly quiet running below 20 dB(A)
- SAP Appendix Q eligible achieving a low Specific Fan Power of 0.28 W/l/s
- Low voltage version available
- 4 interchangeable front panel trims
- Timer, humidity sensor and pullcord models
- Backdraught shutter as standard
- Complies with Building Regulations, Part F, for System 3 - Continuous Mechanical Extract
- One fan for all situations
- Ease of installation and commissioning of speed settings
- Stylish features
- Highly versatile, can be installed into walls and ceilings
- Ease of maintenance

• One Fan For All Situations

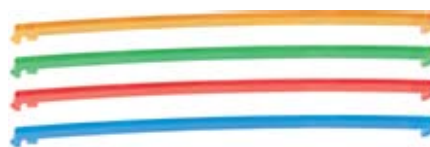
Building on the principles of the hugely successful and award-winning EnviroVent Filterless Extract Fan the ECO dMEV is ideal for all domestic applications, WCs, bathrooms, utility rooms and kitchens. It is a 100mm constant volume, continuously running extract fan, which can be fitted in wall, ceiling or panel installations.

• ECO friendly and Ultra Quiet

Fitted with a DC motor mounted on silent elastic blocks, the fan delivers incredibly silent running below 20 dB(A) with exceptional performance and stylish features. Fully complying with System 3 of the Building Regulations, Part F and SAP Appendix Q eligible, the ECO dMEV ensures a significant contribution to maximising the reward in SAP for ventilation.

• Stylish Design

Designed with style in mind, the ECO dMEV adds a touch of elegance to the modern bathroom or kitchen without compromising on performance or quality. The fan is supplied with smart interchangeable front panel trims in four colours.



• Lowest Life-cycle Costs

The ECO dMEV has been designed for ease of maintenance, achieving the lowest life-cycle costs. The motor compartment can be easily removed to be cleaned or replaced.



• Easy Commissioning

The fan is easily commissioned at installation to be set at one of 5 trickle speed settings ranging from 4-13 l/s to exactly meet the airflow requirements for specific applications and ensure the lowest energy consumption down to 1.5 Watts.



• Low Voltage Bathroom Fan

For extra safety, the ECO dMEV is also available in a low voltage 17V version. In addition to the standard ECO dMEV 17V, which can be boosted by an external switch, the same three models are available as the 230V version: the ECO dMEV 17V timer option, humidity sensor option with timer or pullcord with timer and humidity sensor.

• ECO Models

In addition to the standard ECO dMEV fan, which can be boosted by an external switch, the following three models are available:



ECO timer

ECOTimer

MODEL T

This model comes with an adjustable run-on timer, set to between 1 and 30 minutes.



ECO sensor

ECOSensor

MODEL HT

This version is fitted with an adjustable integral humidity sensor and timer to boost the fan when the humidity in the room reaches a pre-set level. It can also be boosted via an external switch. The timer is adjustable between 1 and 30 minutes.



ECO cord

ECOCord

MODEL HTP

This version is fitted with an integral humidity sensor, timer and pullcord for manual boost.

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SAP Appendix Q Performance ▼

Systems with rigid ductwork (Installation only)						
Unit Configuration	Location	Fan Speed Setting	Flow Rate (l/s)	Flow Rate - Wind Condition (l/s)	Specific Fan Power (W/l/s)	% Reduction of Total Flow Rate
In room (ducted)	Kitchen	45 m³/h	14.3	14.2	0.38	1
In room (ducted)	Wet Room	20 m³/h	8.5	8.2	0.29	4
Through wall	Kitchen	45 m³/h	14.9	14.3	0.36	4
Through wall	Wet Room	20 m³/h	8.7	8.2	0.28	6

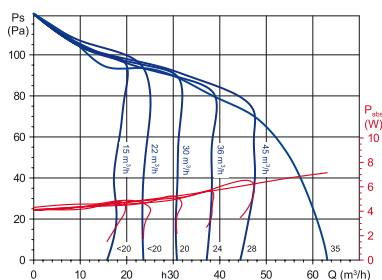
Systems with flexible or mixed ductwork (Installation only)						
Unit Configuration	Location	Fan Speed Setting	Flow Rate (l/s)	Flow Rate - Wind Condition (l/s)	Specific Fan Power (W/l/s)	% Reduction of Total Flow Rate
In room (ducted)	Kitchen	45 m³/h	14.6	14.4	0.38	1
In room (ducted)	Wet Room	20 m³/h	8.5	8.2	0.29	4
Through wall	Kitchen	45 m³/h	14.9	14.3	0.36	4
Through wall	Wet Room	20 m³/h	8.7	8.2	0.28	6

Technical Characteristics ▼

Constant Air Volume		Absorbed Power (W)		SFP* (W/l/s)	Sound Pressure Level dB(A)**		Weight (Kg)
(m³/h)	l/s	Min.	Max.		Min.	Max.	
15	4	1.5	4.5	0.36	<20	23	0.57
22	6	1.8	4.7	0.29	<20	25	
30	9	2.2	5.1	0.26	20	28	
36	10	2.7	5.5	0.27	24	30	
45	13	3.5	6.0	0.31	28	33	
Maximum Air Volume - By means of switch							
65	18	4.3	7.2	410	35	35	

* Following SAP Q Standard (2.5 length of 100mm circular duct diameter, two 90° bends and GR-100 grille at the discharge - max. 20 Pa)
 ** Measured at 3m, in free field condition. The maximum sound pressure level is given at 40Pa

Performance Curve ▼



Options & Ancillaries ▼

Standard Wall Kit	1RDERWAK100
Ø100 Flexible Hose Ducting	1RDFLEX100X3M
Fixed Louvre Grille	1RDGRILL100

Technical Specifications ▼

Product

The ECO dMEV shall be a constant volume, continuous running, decentralised Mechanical Extract Ventilation unit, designed to comply with System 3 of the Building Regulations. The low energy fan shall be supplied in a 230V format with 5 adjustable trickle speed settings ranging between 4-13 l/s. The fan shall also come supplied with four interchangeable front panel trims.

Applications

The ECO dMEV shall be suitable for wall, ceiling or panel mounting in WC's, bathrooms and kitchens.

Performance

	Systems with rigid ductwork (Installation only)			
	In Room (Ducted) Kitchen	In Room (Ducted) Wet Room	Through Wall Kitchen	Through Wall Wet Room
Total Flow Rate (l/s)	14.3	8.5	14.9	8.7
Specific Fan Power (W/l/s)	0.38	0.29	0.36	0.28

Installation

A full installation guide shall be enclosed with all products; or sent separately in advance - if required.

Motor

The motor shall be a 230V Low Watt DC motor, which is assembled on silent elastic blocks, fitted with sealed for life ball bearings for enhanced working life and exceptionally quiet running down as low as 20 dB(A).

Fan

The ECO dMEV shall incorporate a centrifugal fan designed to run continuously on trickle and constant volume, with the facility to boost to maximum air volume via a switch, pull cord or humidity sensor.

Servicing / Maintenance

The motor compartment shall be easily removed to be cleaned or replaced. The fan shall only require periodical cleaning using a cloth lightly impregnated with a soft detergent.

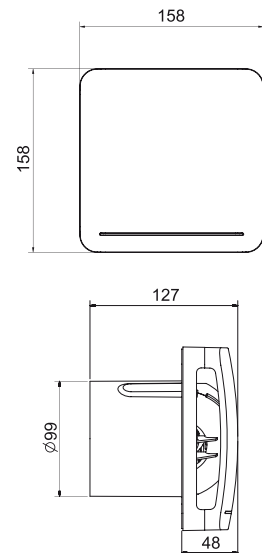
Guarantee

The ECO dMEV shall be covered by a 5 year warranty (2 year renewable motor guarantee).

Compliance

The fan shall be SAP Appendix Q eligible.

Dimensions (mm) ▼



Order Codes

ECO DMEV S	Standard model	ECO DMEV S17V	Standard model (SELV)
ECO DMEV T	Adjustable run-on timer model	ECO DMEV T17V	Adjustable run-on timer model (SELV)
ECO DMEV HT	Adjustable humidity sensor and timer model	ECO DMEV HT17V	Adjustable humidity sensor and timer model (SELV)
ECO DMEV HTP	Humidity sensor, timer and pullcord model	ECO DMEV HTP17V	Humidity sensor, timer and pullcord model (SELV)

For more information on this product call 0845 27 27 810