

envirovent®

ECO DMEV+

SAP PCDB Listed Decentralised Mechanical Extract Ventilation Unit



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CAN BE INSTALLED IN
ZONE 1



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.

- Constant volume, continuously running extract ventilation with adjustable trickle speeds
- 18l/s maximum airflow
- Fitted with a low watt DC motor for minimum energy consumption down to 1 Watt
- Incredibly quiet running below 20 dB(A)
- SAP PCDB Listed achieving a low Specific Fan Power of 0.23 W/l/s
- Low voltage version available
- 4 interchangeable front panel trims
- Timer, humidity sensor and pullcord models
- Complies with local building regulations
- 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
- 2 year warranty



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 or ceiling.

ECO friendly & 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 Building Regulations and SAP PCDB Listed, 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 variable trickle speed settings ranging from 4l/s to a maximum speed of 18l/s to exactly meet the airflow requirements for specific applications and ensure the lowest energy consumption down to 1 Watt.

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, there are two other models available the ECO dMEV+ 17V timer option and humidity sensor option with timer.

'Sensorless' Technology

The EnviroVent ECO dMEV+ incorporates a unique "sensorless" constant volume technology. Using intelligent microprocessor controls and software, the in-duct centrifugal fan works in direct correlation with any resistance in the ductwork. When it senses any resistance it automatically adjusts itself to ensure that the commissioned airflow is delivered and maintained. This means the fan is also self-commissioning - all the installer needs to do is set the unit to the required airflow, screw it to the wall and connect it up! It will commission itself automatically and perform over and above building regulations.

Bi-material Injection Moulding

The result of bi-material injection moulding is a high quality moulded plastic with a permanently attached rubber seal to safely house away all electrical components from any contaminants or humidity.

Powerful Centrifugal Performance

Meticulous research and development has gone into the design of the ECO dMEV+ to be able to incorporate a high powered, forward curved, "sensorless" constant volume centrifugal fan into the smallest of spaces. Most small dMEV's this size use an axial impeller. Axial fans can perform well if they encounter no resistance, however by adding any amount of pressure, they can struggle to perform and become noisy.

As the inlet of the ECO dMEV+ is oval and not round like other fans, this creates space for the dual inlet centrifugal motor

assembly, meaning we can fit a centrifugal fan inside a tiny footprint. This has never been achieved before in a dMEV making it the first fan of its size in the world to incorporate centrifugal technology. Following significant investment in the latest injection moulding machinery and tooling, EnviroVent are one of the only ventilation companies to be able to mould plastic and rubber in the same process.



Technical Data

Constant Air Volume		Absorbed Power [W]		Sound Pressure Level dB(A)	Weight (Kg)
m³/h	l/s	Min.	Max.		
14	4	1.0	2.3	12	0.57
18	5	1.0	2.5	19	
29	8	1.9	3.2	21	
40	11	2.7	4.7	28	
47	13	3.2	5.9	32	
Maximum Speed					
65	18	5.8	8.9	35	

Order Codes

CODES(S)	DESCRIPTION
ECO DMEV+ S	Standard model
ECO DMEV+ T	Adjustable timer model
ECO DMEV+ HT	Adjustable timer & humidity sensor model
ECO DMEV+ HTP	Adjustable timer, humidity sensor & pullcord model

SAP Appendix Q Performance

Systems with rigid ductwork (installation only)			
Unit configuration	Location	Flow Rate [l/s]	Specific Fan Power [W/l/s]
In room (Ducted)	Kitchen	13	0.33
	Wet Room	8	0.23
Through wall	Kitchen	13	0.32
	Wet Room	8	0.23

Technical Specification

Product

The Eco dMEV+ is a constant volume, continuous running, decentralised Mechanical Extract Ventilation unit, designed to comply with Local Building Regulations. The low energy fan supplied in 230V & SELV formats with adjustable trickle speed settings from 4l/s to a maximum of 18l/s. The fan shall also come supplied with four interchangeable front panel trims.

Application Suitability

The Eco dMEV+ is suitable for wall or ceiling mounting in WC's, bathrooms and kitchens.

Performance

See SAP Appendix Q Performance table.

Installation

Full installation guide is enclosed with all products; or sent separately in advance - if required.

Motor

The motor is a 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, <20 dB(A).

Fan

The Eco dMEV+ incorporates a centrifugal fan designed to run continuously on trickle, with the facility to boost to maximum air volume via a switch, pullcord or humidity sensor.

Servicing / Maintenance

The unit incorporates a filter gauze for ease of maintenance.

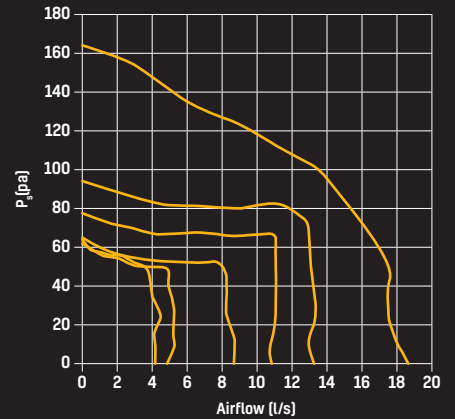
Warranty

The Eco dMEV+ is covered by a 2 year warranty.

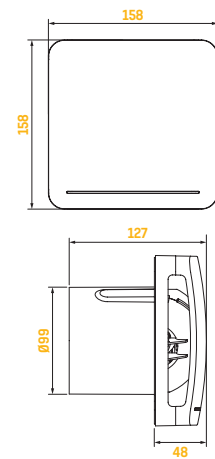
Compliance

The fan shall be SAP PCDB Listed.

Performance Curve



Dimensions (mm)



Options & Ancillaries

CODES(S)	DESCRIPTION
FILTER-KFES	Replacement filter
FILTER-KFEM	Replacement filter (HTP version only)
1RDEFWAK100	Standard wall kit
1RDGRILL100	Fixed Louve Grill



envirovent®

Leaders in the manufacture of innovation and sustainable ventilation

EnviroVent Ltd
Harrogate West Business Park
Unit 1 Bardner Bank
Killinghall, Harrogate
HG3 2SP

T / 01423 810 810
E / enquiries@envirovent.com
W / www.envirovent.com

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E&OE | MKT ENV602 - V3 - 24/07/2023

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