

# ECO dMEV+ Specification Guide

SAP PCDB Listed Decentralised Mechanical Extract Ventilation Units



# ECO DMEV+

## Decentralised Mechanical Extract Ventilation Unit



### ABOUT

The Eco dMEV+ is a decentralised mechanical extract fan that incorporates constant volume technology to provide a high efficiency, low cost and low noise solution. The fan is SAP PCDB listed, with an SFP of down to 0.23w/l/s, and has a maximum airflow of 16l/s, with adjustable speeds from 4l/s up to a maximum of 18l/s.

The fan is designed to be flexible, and meets the airflow requirements for a kitchen, utility, bathroom, WC and en-suite making it perfect for the residential market.

The fan itself has a 100mm spigot, and is unobtrusive with a low profile of only 158 x 158 x 48mm when installed.

The fan comes as standard with a mesh filter that sits under the front cover in a specially designed structure to enable the filter to fit between the fan and the cover itself. There are a number of models available including adjustable timer, humidistat and pullcord as well as low voltage options.

### APPLICATION



Wall



Ceiling

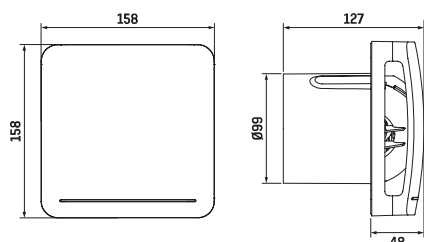
### ORDER CODES

CODE(S)	DESCRIPTION
ECO DMEV+ S	Eco dMEV Standard model
ECO DMEV+ T	Eco dMEV Adjustable timer
ECO DMEV+ HT	Eco dMEV Adjustable timer, adjustable humidity sensor
ECO DMEV+ HTP	Eco dMEV Adjustable timer, adjustable humidity sensor, pullcord
ECO DMEV+ S17V	Eco dMEV SELV standard model
ECO DMEV+ T17V	Eco dMEV SELV adjustable timer
ECO DMEV+ HT17V	Eco dMEV SELV adjustable timer, adjustable humidity sensor

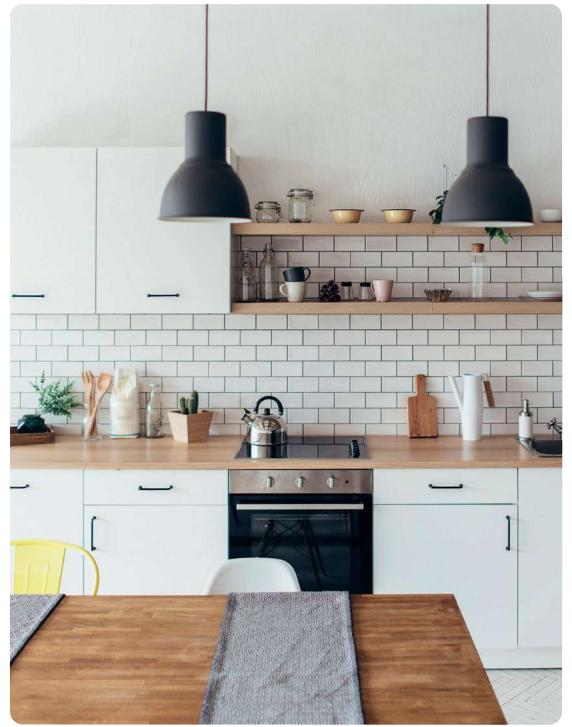
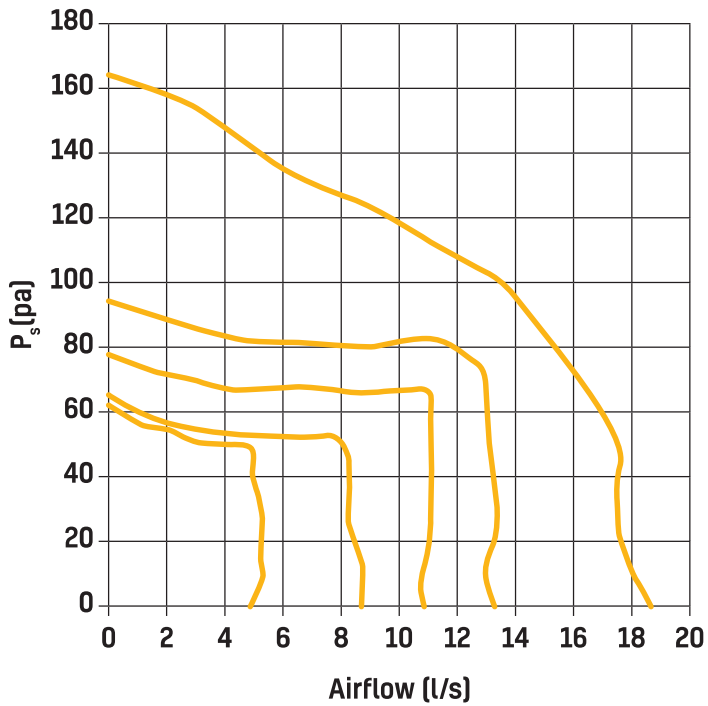
### KEY FEATURES

- ✓ SAP PCDB Listed achieving a low Specific Fan Power of 0.23 W/l/s
- ✓ 18l/s maximum airflow
- ✓ Constant volume, continuously running extract ventilation with variable trickle speed settings
- ✓ Timer, humidity sensor and pullcord models
- ✓ Ø100mm spigot
- ✓ Low voltage version available
- ✓ Fitted with low watt DC motors for minimum energy consumption down to 1 Watt
- ✓ Includes 4 interchangeable front panel trims
- ✓ 2 year warranty

### DIMENSIONS (mm)



## PERFORMANCE



## OPTIONS & ANCILLARIES

CODE(S)	DESCRIPTION
<b>FILTER-KFES</b>	Replacement filter
<b>FILTER-KFEM</b>	Replacements filter (HTP version only)
<b>1RD EFWAK**</b>	Standard wall kit
<b>1RD GRILL 100**</b>	Fixed louvre grille
 <b>WH TC BR CO</b>	Available in White, Terracotta, Brown, and Cotswold Stone. When ordering, please state which colour grille you require and replace the ** at the end of the code with one of the four colour codes

## TECHNICAL DATA

<b>MAXIMUM FLOW RATE L/S (m<sup>3</sup>/h)</b>	18 (65)
<b>MOTOR</b>	DC
<b>SPECIFIC FAN POWER (w/l/s)</b>	0.23
<b>ELECTRICAL SUPPLY</b>	230V / 1PH / 50Hz
<b>MAX POWER CONSUMPTION (W)</b>	9
<b>PROTECTION CLASS</b>	IPX4 (SELV Version - IP57)
<b>SPIGOT (mm)</b>	100
<b>DIMENSIONS (mm)</b>	158 x 158 x 48 (When Fitted)
<b>WEIGHT (kg)</b>	0.57

Link to Specification visit:  
[envirovent.com/downloads](https://envirovent.com/downloads)

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Link to BIM /Revit Files visit:  
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# PRODUCT CHARACTERISTICS DATABASE (SAP 10)

## 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	8,4	0.23

## SOUND DATA

		SOUND POWER LEVELS (Lw dB(A))									Sound Pressure Levels
		Frequency (Hz)									
Flow (m³/h)	Flow (l/s)	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	TOTAL dB(A)	dB(A) @ 3m
65	18	37.4	38.2	47.3	44.0	50.2	52.9	44.4	35.4	56.0	<b>35.46</b>
47	13	32.8	34.7	46.6	40.5	47.1	49.5	40.2	30.3	53.0	<b>32.46</b>
40	11	30.2	32.1	36.2	37.3	44.0	45.7	35.7	25.3	49.0	<b>28.46</b>
29	8	22.7	29.9	33.8	31.7	38.3	37.7	27.2	20.2	42.0	<b>21.46</b>
18	5	16.6	24.0	40.5	26.2	30.7	27.8	20.8	19.4	40.0	<b>19.46</b>
14	4	14.9	23.3	31.5	23.9	24.0	23.0	16.7	13.8	33.0	<b>12.46</b>



# CONSULTANT SPECIFICATION

## ECO dMEV+

The dMEV+ is suitable for wall or ceiling mounting in kitchens, WCs, bathrooms and shower rooms to meet Approved Document F: Ventilation in England and Wales, Technical Handbook for Scotland, Northern Ireland Technical Booklet, Part K. The fan is PCDB listed for inclusion within SAP for Continuous Mechanical Extract Ventilation Equipment (dMEV).

- ⊗ The unit is the ECO dMEV+ as manufactured by EnviroVent.
- ⊗ The unit is powered by a low energy, DC motor for minimum energy consumption down to 1 Watt, supplied in a 230V format or SELV version with Trickle Speed ranging from 4l/s to a maximum speed of 18l/s.
- ⊗ The unit is available with timer, humidity sensor or pullcord options.
- ⊗ The unit is capable of operating continuously on constant volume to work in direct correlation with any resistance in the ductwork, ensuring that the commissioned airflow is always delivered and maintained. The unit will operate on trickle at the pre-set rate and with the facility to boost to maximum air volume via a switch, pullcord or humidity sensor.
- ⊗ The unit enables ease of commissioning through the intelligent constant volume microprocessor technology.
- ⊗ The unit comes supplied with three interchangeable front panel trims to match the internal décor of any bathroom.
- ⊗ The unit is constructed out of high-quality injection moulded plastic providing a permanent IPX4 seal and IP57 for the SELV version. The unit is suitable for installing in bathroom Zone 1. The electronic components is protected in an IPX4 enclosure offering a highly robust fan for domestic applications.
- ⊗ The unit incorporates an innovative centrifugal motor with a dual inlet to allow air to enter from four sides. The motor is mounted on anti-vibration mounts and unit noise levels should not exceed 35.46 dB(A) @3m on maximum speed and shall achieve <20 dB(A) @3m on low speed.
- ⊗ The unit incorporates a filter gauze for ease of maintenance.
- ⊗ The unit is supplied with a 2 year warranty.

# envirovent®

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