

ECO dMEV+ LC Specification Guide

SAP PCDB Listed Decentralised Mechanical Extract Ventilation Units



ECO DMEV+ LC

Decentralised Mechanical Extract Ventilation Unit



ABOUT

The Eco dMEV+ LC 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 0.22w/l/s, and has a maximum airflow of 18l/s, with a minimum of 4l/s. The fan is able to be adjusted appropriately between these speeds.

The fan is designed to be flexible, and meets the airflow requirements for a kitchen, utility, bathroom, WC and en-suite. There is also an option to use the fan as an intermittent ventilation solution.

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, pullcord and PIR sensor as well as low voltage options.

APPLICATION

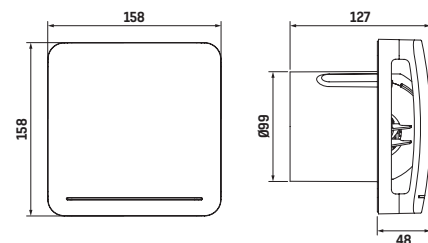


Wall



Ceiling

DIMENSIONS (mm)



KEY FEATURES

- ✓ SAP PCDB Listed achieving a low Specific Fan Power of 0.22 W/l/s
- ✓ 18l/s maximum airflow
- ✓ Continuously running or intermittent extract ventilation with adjustable speeds
- ✓ Interval control option for high humidity areas on intermittent setting
- ✓ Start-up timer function option available on intermittent setting
- ✓ Timer, humidity sensor, PIR sensor and pullcord models
- ✓ Ø100mm spigot
- ✓ Low voltage version available

ORDER CODES

CODE(S)	DESCRIPTION
ECO DMEV+ S LC	Eco dMEV+ LC Standard model
ECO DMEV+ T LC	Eco dMEV+ LC Adjustable timer
ECO DMEV+ HT LC	Eco dMEV+ LC Adjustable timer, adjustable humidity sensor
ECO DMEV+ HTP LC	Eco dMEV+ LC Adjustable timer, adjustable humidity sensor, pullcord
ECO DMEV+ DT LC	Eco dMEV+ LC PIR sensor, adjustable timer
ECO DMEV+ S LC 17V	Eco dMEV+ LC SELV standard model
ECO DMEV+ T LC 17V	Eco dMEV+ LC SELV adjustable timer
ECO DMEV+ HT LC 17V	Eco dMEV+ LC SELV adjustable timer, adjustable humidity sensor
ECO DMEV+ HTP LC 17V	Eco dMEV+ LC SELV adjustable timer, adjustable humidity sensor, pullcord
ECO DMEV+ DT LC 17V	Eco dMEV+ LC SELV PIR sensor, adjustable timer

Link to Specification visit:
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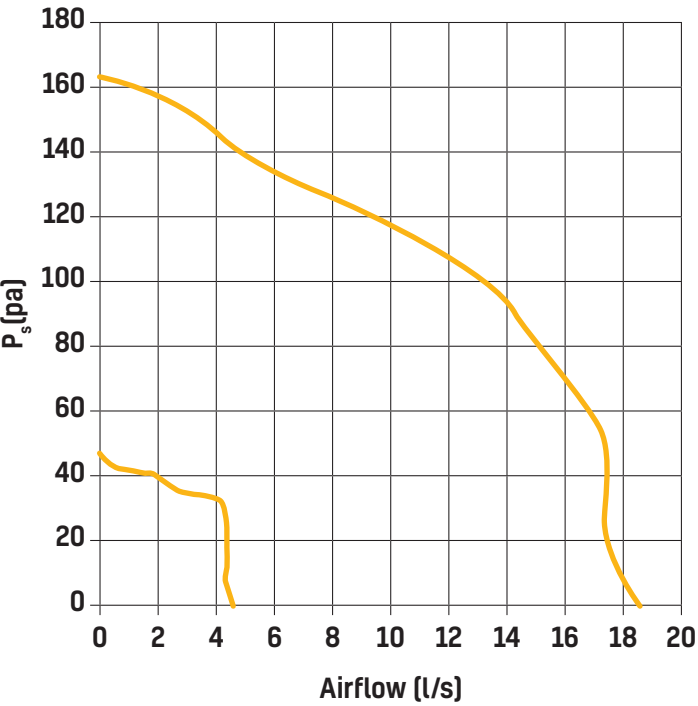


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PERFORMANCE



OPTIONS & ANCILLARIES

CODE(S)	DESCRIPTION
FILTER-KFES	Replacement filter
FILTER-KFEM	Replacements filter (HTP version only)
1RD EFWAK**	Standard wall kit
1RD GRILL 100**	Fixed louvre grille
<div><div></div><div></div><div></div><div></div></div> <div>WH TC BR CO</div>	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

MAXIMUM FLOW RATE L/S [m³/h]	18 [65]
MOTOR	DC
SPECIFIC FAN POWER [w/l/s]	0.22
ELECTRICAL SUPPLY	230V / 1PH / 50Hz
MAX POWER CONSUMPTION [W]	9
PROTECTION CLASS	IPX4 [SELV Version - IP57]
SPIGOT [mm]	100
DIMENSIONS [mm]	158 x 158 x 48 [When Fitted]
WEIGHT [kg]	0.57

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	0.35
	Wet Room	8	0.24
Through wall	Kitchen	13	0.31
	Wet Room	8	0.22

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	37.3	38.2	48.5	44.0	50.2	52.8	44.3	35.3	56.0	35.46
16	4	14.0	21.4	30.4	23.1	26.8	23.3	16.7	14.0	33.0	12.46



CONSULTANT SPECIFICATION

ECO dMEV+ LC

The ECO dMEV+ LC 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 one fan shall ventilate any domestic kitchen (continuous only), utility room (continuous only), bathroom, WC or shower room and be PCDB listed for inclusion within SAP for decentralised Mechanical Ventilation Equipment (dMEV).
- ⊗ The Eco dMEV+ LC has an interval function set back option if working in intermittent mode only. This prevents nuisance running during periods of high or low humidity.
- ⊗ The Eco dMEV+ LC has a start-up timer function to delay the fan function for up to 50 seconds as a set back option. This can be used when the fan is working in intermittent mode only.
- ⊗ The unit is the ECO dMEV+ LC as manufactured by EnviroVent.
- ⊗ The unit shall be capable of operating in either continuous running mode or intermittent mode.
- ⊗ The unit is powered by a low energy, DC motor for minimum energy consumption down to 1 Watts, supplied in a 230V format or SELV version with adjustable low speed (Trickle) settings ranging from 4l/s to a maximum high speed of 18l/s.
- ⊗ The unit shall be available with timer, humidity sensor, pullcord or PIR options.
- ⊗ In constant or intermittent mode, the fan speeds are able to be adjusted via a switch on the fan. The move from continuous (default) to intermittent mode is achieved through a switch which is integral to the fan.
- ⊗ The unit is supplied with four interchangeable front panel trims to match the internal décor of any bathroom.
- ⊗ The unit is rated IPX4 and IP57 for the SELV version. The unit is suitable for installing in bathroom Zone 1. The electronic components are 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 both sides. The motor is mounted on anti-vibration mounts and unit noise levels should not exceed 36 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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and sustainable ventilation

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