

## De-centralised Mechanical Extract Ventilation Fans (d-MEV)

### 100mm axial 230v-3 speed / 12v-2 speed extract fan



Extract rate (full speed) 19 litres per second

Fans can be wall, ceiling, panel or window mounted

British made

The PCH 3-speed extract fan range of 100mm (4") kitchen, bathroom and toilet fans comprises quiet, efficient, axial flow fans for wall, ceiling or window mounting.

Designed to exceed the 2006 Building Regulations on Ventilation (F1)

Designed for easy installation, attractively styled in high gloss ABS thermoplastics for modern appearance and ease of cleaning and incorporating the latest technology and design and maintenance free, self-lubricating motor bearings.

Tested to comply with HD280/BS3456 Part 102:342 1988

The range also includes 12v Low Voltage models for use when required. The fans are 3-speed manually adjustable: slow speed / boost for bathrooms and medium speed / boost for kitchens.

2 year no quibble guarantee



#### Technical Data

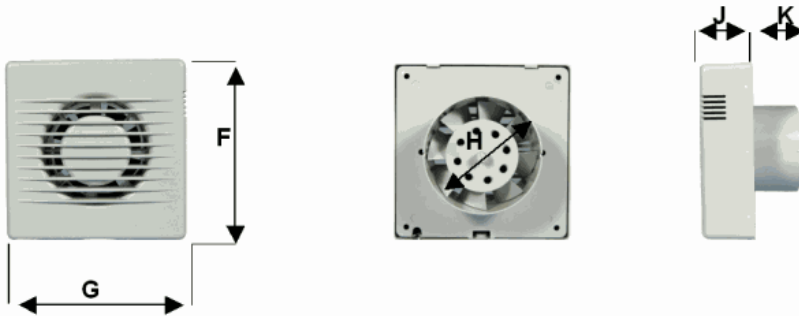
##### 230v models

Catalogue No.	Type
PCH100	Standard 230v 3-speed (adjustable) 100mm continuously running with pullcord boost When installed into bathrooms set to low speed (6 l/s continuous and 19 l/s boost) and when in kitchens set to medium speed (10 l/s continuous and 19 l/s boost)

##### Low Voltage 12v models

Catalogue No.	Type
PCH100LV	Standard Low Voltage 2-speed 100mm continuously running with pullcord boost. This model is for bathrooms only and runs at 6 l/s continuous and 19 l/s boost.

Construction	These fans are moulded in impact resistant high gloss ABS thermoplastics for strength, durability and finish
Motor	Single phase induction motor with pre-oiled bearings fitted for a long maintenance free life and protected by a thermal fuse.
Guarantee	Two year no quibble on-site warranty
Installation	Both 230v and 12v ranges are designed to be wall, window or ceiling mounted. Kits available on request. Wall kits comprise a wall sleeve (275mm long) and a fixed grille (white, terracotta, stone, grey or brown). Window kits comprise an external white gravity grille and internal fixing plate. Ceiling kits comprise 3m 100mm flexible ducting and an external fixed grille (colours to suit). Installation through a wall or ceiling requires a 107mm hole, through a window a 126mm hole.
Performance	PCH100 / PCH100LV - extract rate of 60m <sup>3</sup> /hr, 19 litres per second on maximum speed. Low speed – 2 watts, medium speed – 5 watts and full speed 11 watts max.
Additional Data	Maximum pressure: 50 p.a. Fan speed: 2400 r.p.m. Sound volume: 40.0 dB(A) Maximum operating temperature 40°C. Protection Rating IPx4. Low speed – 6 l/sec, medium speed – 10 l/sec and full speed – 19 l/sec.



Unit Dimensions & Cut-outs	
F	166mm
G	166mm
H	100mm
J	42mm
K	42mm
Wall Hole	107mm
Ceiling Hole	107mm
Window Hole	126mm

Current Building Regulations F1:2006 giving details of continuous extraction rates below:

Table 1.1a Extract ventilation rates			
Room	Minimum intermittent extract rate	Continuous extract	
		Minimum high rate	Minimum low rate
Kitchen	30l/s (adjacent to hob); or 60l/s (elsewhere)	13l/s	Total extract rate must be at least the whole building ventilation rate in Table 1.1b
Utility room	30l/s	8l/s	
Bathroom	15l/s	8l/s	
Sanitary accommodation	6l/s		

Whole building ventilation rate <sup>a,b</sup> (l/s)	Number of bedrooms in dwelling				
	1	2	3	4	5
	13	17	21	25	29

**Notes:**

- In addition, the minimum ventilation rate should be not less than 0.3l/s per m<sup>2</sup> internal floor area (this includes each floor, e.g. for a two-storey building, add the ground and first floor areas).
- This is based on two occupants in the main bedroom and a single occupant in all other bedrooms. This should be used as the default value. If a greater level of occupancy is expected, then add 4l/s per occupant.

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