AIROVENT

Continuous Central Extraction Range

KEY FEATURES

- Low energy use EC motors
- Airflows up to 500m³/h
- Low noise efficient design
- A preferred method of ventilation in Building Regulations Part F Volume 1: Dwellings
- RF units have wireless room controllers
- Humidity sensing fan control in RF units
- Basic controller and CO^2 sensing controller available for RF units.
- WH6B unit suitable for Airflex Pro low energy radial duct system
- Complies to Building Regulations Part L Volume 1: Dwellings
- Lightweight units – easy to lift
- Easy maintenance when installed

Airovent

The AIROVENT continuous mechanical extract ventilation range is designed for the simultaneous ventilation of separate areas in the home or as a multipoint extractor system for a wide range of light commercial applications.

In the home, the system is usually located in the loft or airing cupboard with ducts taken to the bathroom, utility room and toilets to removes air pollutants such as water vapour and odours. The AIROVENT range is also ideal for a variety of light commercial applications such as toilets, fitting rooms, and kiosks. The units can be installed at any angle and where the ambient air has a high level of humidity.

In addition, this range complies to Building Regulations Part L Volume 1: Dwellings - Conservation of fuel and power, and Part F Volume 1: Dwellings - Ventilation.

AIROVENT MEV WH4H - 90001575

The **AIROVENT RF MEV WH4H (90001575)** unit comes complete with built-in humidistat to adjust airflows. It can be paired with two types of stylish wireless controllers.

These controllers are the basic controller (90001489) or controller with a built in CO^2 sensor (90001490). The basic controller gives you the choice of three fan speed settings, timed overrun, and low airflow “away mode”. The controller with CO^2 offers the same but airflows can also be controlled by the amount of CO^2 around it.

The port connections on this unit are 125 mm diameter to the rooms and a choice of 125 mm or 160 mm to outside.

AIROVENT MEV WH4B - 90001495

The **AIROVENT MEV WH4B (90001495)** unit is smaller in size than the WH4H unit with slightly less open airflow capabilities.

The unit is controlled by using three position switches (90000541) to switch between the low, medium, and high fan speeds. An alternative is to use a humidity sensing switches (9041570) Both switches offered need to be hard wired into the fan unit.

AIROVENT MEV WH6B - 90001496

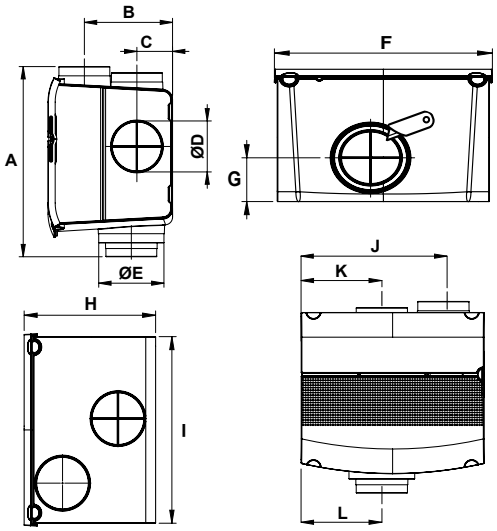
The **AIROVENT MEV WH6B (90001496)** unit is fitted with a six port back-box instead of the standard four port offered with the WH4B model.

This small change makes the unit suitable for use with Airflow`s AirflexPro, semi-rigid, low energy, radial duct system.

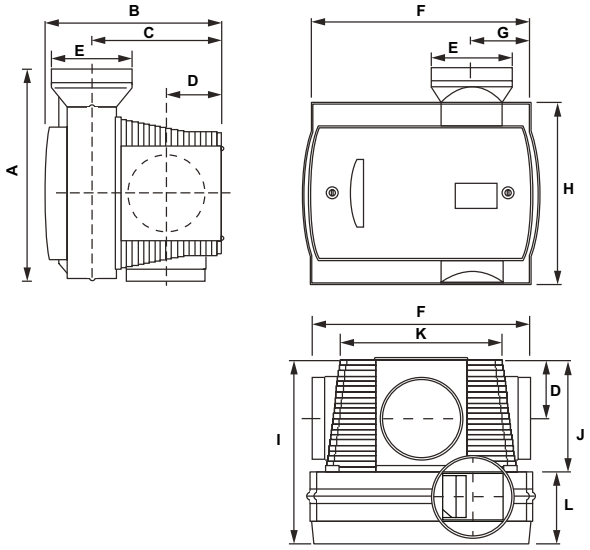
TECHNICAL DATA

Specification	AIROVENT RF MEV WH4H	AIROVENT MEV WH4B	AIROVENT MEV WH6B
Air flow - up to m³/h	600	460	460
Air flow - up to l/s	166	127	127
Fan type	Backward curve centrifugal	Forward curve centrifugal	Forward curve centrifugal
Fan motor type	EC	EC	EC
Sound level @ 200m3/h / 55.5l/s Lwa	40	49	49
Extract port size and number	4 x 125mm	4 x 125mm	6 x 83.7mm
Port size for expelled air to outside	125mm or 160mm	125mm	125mm
Controller radio frequency	868.3MHz	N/A	N/A
Electric supply	230V - 50Hz - 1Ph	230V - 50Hz - 1Ph	230V - 50Hz - 1Ph
Maximum power consumption (W)	50 or 82	71	71
Weight Kg	4.4	3.5	3.5
Dimensions (H x W x D)mm	303 x 442 x 430	240 x 340 x 330	240 x 340 x 330
Product Codes	**90001575**	**90001495**	**90001496**

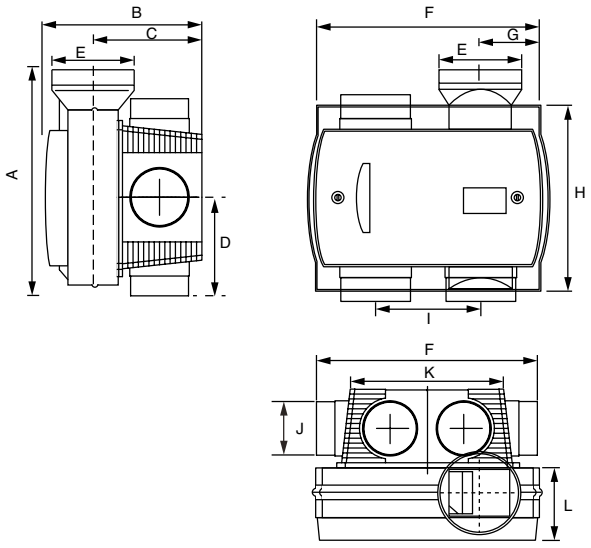
DIMENSIONS (mm)



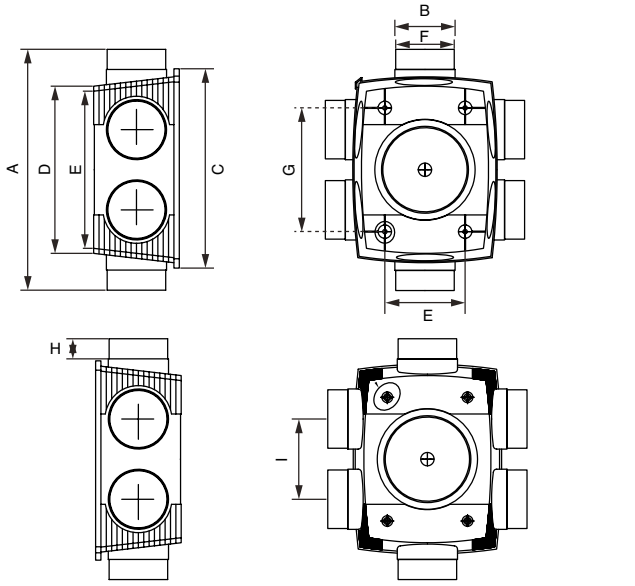
Model	A	B	C	D	E	F	G	H	I	J	K	L
AIROVENT RF MEV WH4H	463	215	87	124	160	442	100	303	430	344	195	195



Model	A	B	C	D	E	F	G	H	I	J	K	L
AIROVENT MEV WH4B	330	275	205	88	124	340	82	280	275	166	252	112



Model	A	B	C	D	E	F	G	H	I	J	K	L
AIROVENT MEV WH6B	330	245	136	148	124	340	80	280	120	87.5	252	112



Model	A	B	C	D	E	F	G	H	I
AIROVENT MEV WH6B	360	90	298	250	120	87.5	185	30	120

PERFORMANCE DATA

AIROVENT MEV WH4H Dipswitch Settings

Fan Speed Band	Fan Speed Setting	AIROVENT							Minimum Airflow at stated Pressure	Minimum Pressure at stated Airflow
	Switch Number	1	2	3	4	5	6	7	l/s (m³/h)	Pa
Low	1a	OFF							20.46 (74)	41
Low	2a	ON							28.20 (102)	51
Medium	3a		OFF	OFF	OFF			OFF	33.17 (119)	49
Medium	4a		ON	OFF	OFF			OFF	47.50 (171)	46
Medium	5a		OFF	ON	OFF			OFF	54.70 (197)	36
Medium	6a		ON	ON	OFF			OFF	61.60 (222)	44
Medium	7a		OFF	OFF	ON			OFF	68.28 (246)	53
Medium	8a		ON	OFF	ON			OFF	74.81 (269)	70
Medium	9a		OFF	ON	ON			OFF	84.12 (303)	70
Medium	10a		ON	ON	ON			OFF	87.70 (316)	92
High	11a					OFF	OFF	OFF	68.00 (256)	60
High	12a					ON	OFF	OFF	81.90 (295)	87
High	13a					OFF	ON	OFF	88.30 (318)	112
High	14a					ON	ON	OFF	95.35 (343)	158

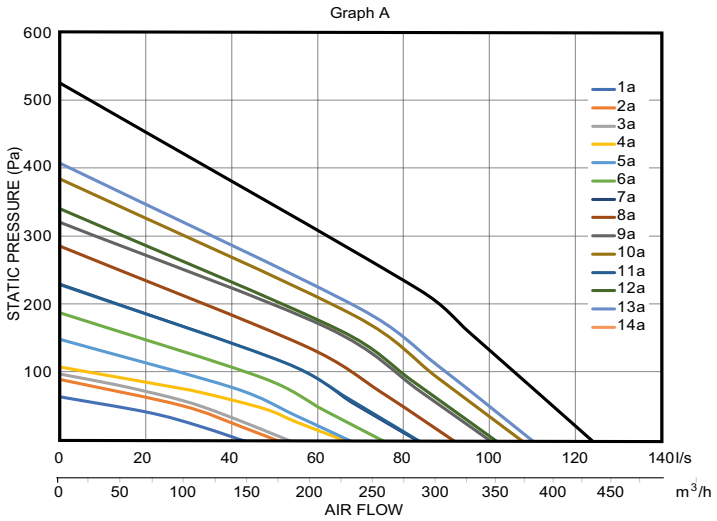
AIROVENT MEV WH4H Dipswitch Settings

Fan Speed Band	Fan Speed Setting	AIROVENT							Minimum Airflow at stated Pressure	Minimum Pressure at stated Airflow
	Switch Number	1	2	3	4	5	6	7	l/s (m3/h)	Pa
Low	1b	OFF							38.41 (138)	54
Low	2b	ON							53.12 (191)	57
Medium	3b		OFF	OFF				ON	55.35 (199)	61
Medium	4b		ON	OFF				ON	65.02 (234)	64
Medium	5b		OFF	ON				ON	64.84 (233)	84
Medium	6b		ON	ON				ON	73.21 (264)	83
High	7b				OFF	OFF	OFF	ON	72.09 (256)	46
High	8b				ON	OFF	OFF	ON	84.63 (305)	65
High	9b				OFF	ON	OFF	ON	91.91 (331)	75
High	10b				ON	ON	OFF	ON	93.31 (336)	88
High	11b				OFF	OFF	ON	ON	110.69 (398)	92
High	12b				ON	OFF	ON	ON	115.46 (416)	104
High	13b				OFF	ON	ON	ON	120.30 (433)	114
High	14b				ON	ON	ON	ON	139.74 (503)	94

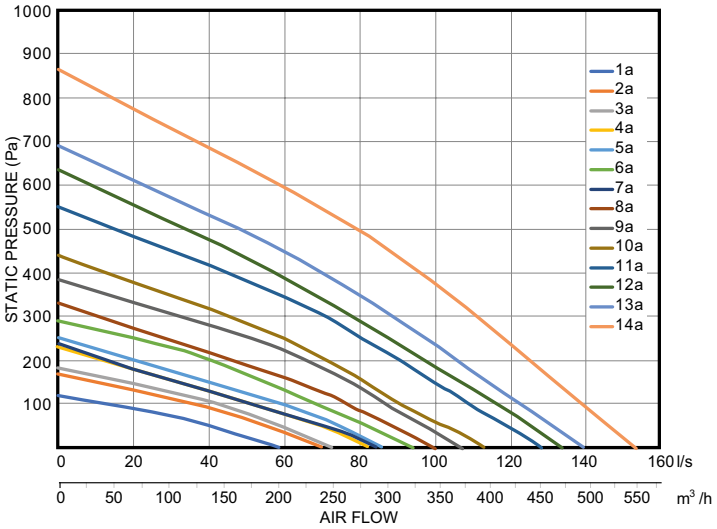
AIROVENT MEV WH4B & WH6B Dipswitch Settings

Fan Speed Band	Fan Speed Setting	Dip Switch Setting								Minimum Airflow at stated Pressure	Minimum Pressure at stated Airflow
	Switch Number	1	2	3	4	5	6	7	8	l/s (m3/h)	Pa
Low	1	OFF								24.0 (87)	9
Low	2	ON								34.0 (123)	19
Medium	3		OFF	OFF	OFF				ON	26.5 (97)	11
Medium	4		ON	OFF	OFF				ON	36.0 (131)	21
Medium	5		OFF	ON	OFF				ON	42.5 (153)	28
Medium	6		ON	ON	OFF				ON	45.5 (164)	30
Medium	7		OFF	OFF	ON				ON	48.0 (173)	33
Medium	8		ON	OFF	ON				ON	57.5 (207)	52
Medium	9		OFF	ON	ON				ON	60.0 (216)	56
Medium	10		ON	ON	ON				ON	65.0 (234)	67
High	11					OFF	OFF	OFF	ON	43.5 (158)	31
High	12					ON	OFF	OFF	ON	60.0 (216)	56
High	13					OFF	ON	OFF	ON	65.0 (234)	67
High	14					ON	ON	OFF	ON	70.5 (255)	80
High	15					OFF	OFF	ON	ON	76.5 (276)	94
High	16					ON	OFF	ON	ON	81.0 (293)	105
High	17					OFF	ON	ON	ON	86.0 (310)	118
High	18					ON	ON	ON	ON	98.5 (355)	137

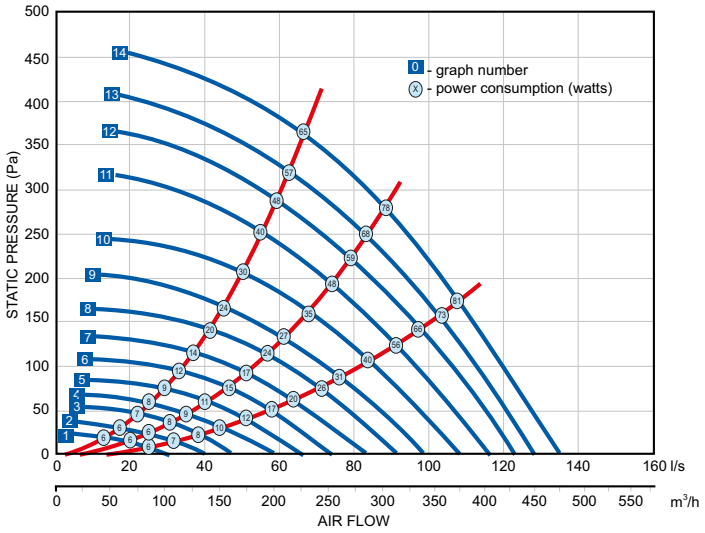
AIROVENT MEV WH4H selection A performance curves:



AIROVENT MEV WH4H selection B performance curves:



AIRFOVENT MEV WH4B & WH6B performance curves:



ACCESSORIES

Accessories	Product Code	Product Image
Low / High / Off Switch*	90000541	
Humidistat**	9041570	
Airovent RF Controller - Basic***	90001489	
Airovent RF Controller + CO_2 Sensor***	90001490	
Ø75 mm x 50 M Round AirflexPro Semi-rigid duct**	9041130	
Ø125 mm x 2 M Round Rigid Duct	9041546	
Ø125 mm x 2 M Airflex Round PVC Hose	52641008	
Metal Worm Drive Clamp for Ø125 mm Connections	51849403	
Grey Acrylic Duct Sealant Non-Hardening 380 ml)	90000356	
187 x 187 x Ø125 mm Fixed Grille - Terracotta (other colours available at www.airflow.com)	9041223	
Universal Roof Terminal & Adaptor - Sepia (other colours available at www.airflow.com)	90000350	

* For use with both WH4B & WH6B units
** For use with MEV WH6B units only
*** For use with WH4H RF Units only

A full range of rigid ducting, Airflex Pro (semi-rigid) ducting, flexible ducting, grilles, and fittings are available at www.airflow.com

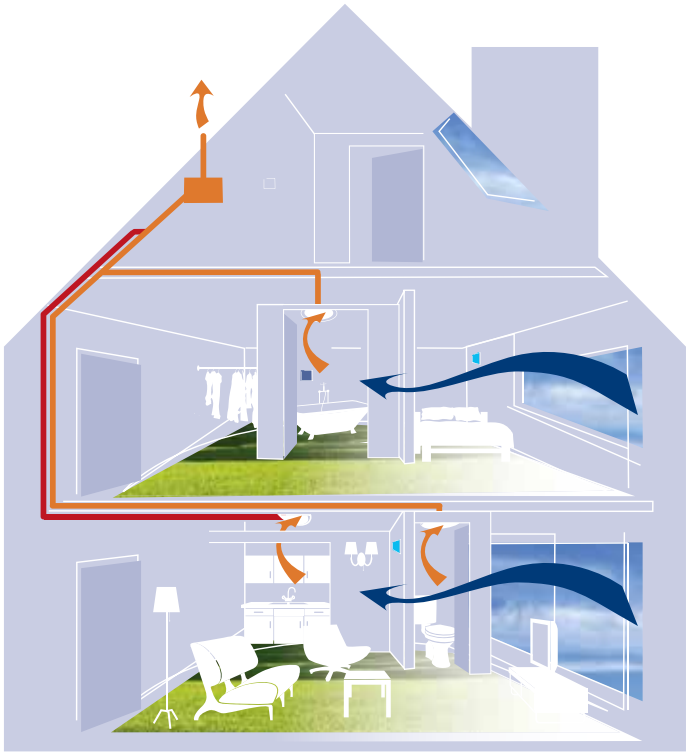


FIG A – Illustrates a typical central extract system using rigid ducting, focusing on “Best Practice” that the toilet extract is separate to, or positioned in-line between the kitchen extract and the extraction unit.

Centralised continuous mechanical extract ventilation (CMEV) systems, comprise of a centrally located, continuously running extract unit, connected to ducts which run to contamination / moisture producing areas. These areas are commonly known as “wet rooms”, mainly consisting of kitchens, bathrooms, toilets, and utility rooms. Air is extracted from these rooms to the rates laid down in Building regulation part “F”, Ventilation, Volume 1: Dwellings. Make up air is drawn through trickle vents positioned in all living areas. These are usually found in the window frames. Trickle vents should be left open at all times, except in extreme weather conditions.

Using a continuous extract ventilation system removes contamination / moisture at its source, stopping it spread around the dwelling. This ensures good indoor air quality (IAQ).

By providing the correct amount of continuous ventilation removes contamination / humidity at source, stopping it permeate into the dwelling fabric and ensuring the air we breathe is high quality.

AIRFLOW®

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