

Microbox 125/2DC-B



MEV - Microbox 125/2DC-B

- energy efficient EC motor
- efficient, low energy solution to controlling condensation and pollution
- provides low level continuous ventilation in a kitchen and up to 5 wet rooms
- variable choice of low (trickle) and boost speed at installation
- compact ultra low profile unit
- for loft, void, false ceiling or cupboard
- requires only one discharge grille
- low noise levels and running costs
- available with 204 x 60mm spigot
- available with humidistat
- compliant with Building Regulations Parts L1 2010 and F 2010
- manufactured in UK to ISO 9001



Microbox 125/2DC-B

GENERAL FEATURES

- Up to 97 litre/sec at 50Pa - max 100 litre/sec capacity
- suitable for areas up to 270m²
- easy and economical installation and maintenance
- can be angled horizontally or vertically
- variable low (trickle) and boost options
- boost speed triggered by a switched live connection from:
 - a light switch (if more than one light switch is used, **each one must be a double pole switch**)
 - DRH240 (dynamic remote humidistat)
 - PIRFF (passive infra red)
 - THM (thermostat)
 - a remote switch/pull cord
- low noise levels (below 20dB(A))
- low running costs
- extra security - no need to open windows
- 2 year warranty

TECHNICAL FEATURES

- compact, ultra low profile unit
- casing from steel, lined with acoustic material
- low energy EC external rotor motor with sealed for life bearings
- backward curved impellers dynamically balanced
- thermal overload protection
- service and maintenance panel easily accessible
- pre-wired for easy electrical connection
- complete with mounting bracket and anti-vibration plate
- operates in temperature up to 60°C
- manufactured in UK to ISO 9001
- **IPX4 rated**

CONTROL FEATURES

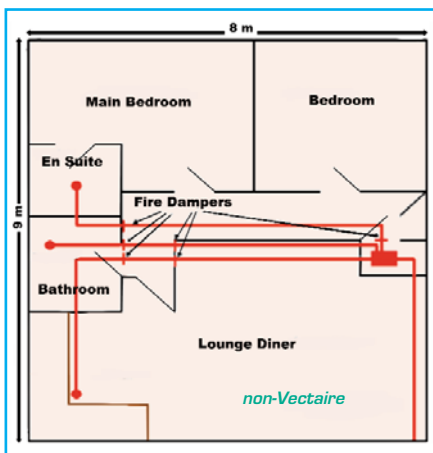
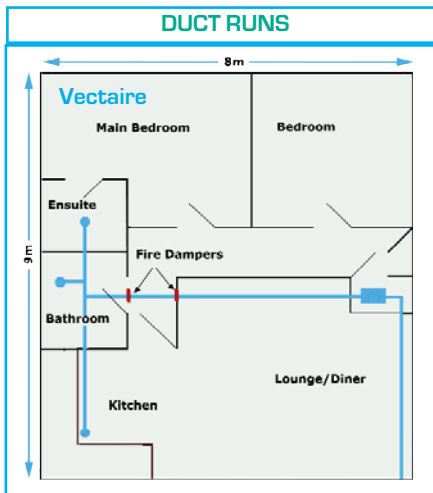
- > **variable adjustment** - trickle and boost speeds set at installation
- > **boost setting** (via switched live)

OTHER MODELS AVAILABLE:

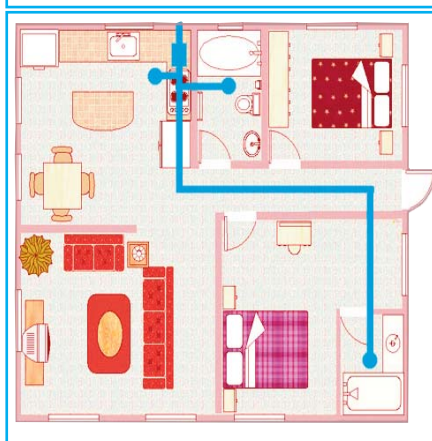
- **MBOX125/2DCH** - with integral humidistat
- **MBOX125/2DC204** - with rectangular spigot - 204mm x 60mm
- **MBOX125/2DC204H** - with rectangular spigot and integral humidistat

COMPLIES WITH

- Part L1 2010 of Building Regulations for enhanced energy saving capability
- Part F 2010 of Building Regulations for reliable, efficient ventilation
- EU RoHS Directive Compliant.
- Conforms to requirements of EC Council directives relating to Electromagnetic Compatibility and Electrical Safety: 2006/95/CE (LVD), 2004/108/CE (EMC), EN 60335-2-80
- CE marked
- **SAP Q eligible**
- **Energy Saving Trust Best Practice Compliant**



INSTALLATION EXAMPLE



Vectaire Ltd can supply all accessories for use with these units, including air filter cassettes, silencers, fire dampers, air valves, ducting, outside grilles and wall cowls. Additionally, Vectaire offers a design service to ensure that the unit installed is the best possible to provide efficient, effective, low energy and low running cost ventilation. Vectaire can also organise installation, commissioning and maintenance of these products



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TECHNICAL CHARACTERISTICS										
Model	Airflow l/sec					Power - Watts				
	max boost	max trickle	80%	60%	40%	max boost	max trickle	80%	60%	40%
MBOX125/2DC-B	105	104	95	62	34	46	45	26	12	6

RESULTS for SAP CALCULATIONS ENERGY LEVEL PERFORMANCE - using rigid ducting only			RESULTS for Approved Document F		
Exhaust Terminal Configuration	Specific Fan Power (W/l/s)	EST Best Practice Performance Compliant	Total Flow Rate (l/sec)	Total Flow Rate (wind condition) (l/sec)	% reduction of Total Flow Rate
Kitchen + 1 additional wet room	0.20	Yes	21.0	19.3	8
Kitchen + 2 additional wet rooms	0.26	Yes	29.0	27.9	4
Kitchen + 3 additional wet rooms	0.34	Yes	37.0	36.3	2
Kitchen + 4 additional wet rooms	0.44	Yes	45.0	44.2	2
Kitchen + 5 additional wet rooms	0.55	Yes	53.0	52.5	1

Figures from BRE test results at minimum flow rate conditions

MBOX125/2DC-B		Sound Power Levels, L_w [dB] - Octave Bands Frequency Hz.								Sound Pressure dBA @3m
Curve Ref		63	125	250	500	1k	2k	4k	8k	
Max Boost (105 l/sec)	Extract	62	66	68	62	59	60	52	45	39
	Supply	60	68	65	67	65	64	57	49	
	Breakout	60	55	63	59	52	48	40	32	
Max Trickle (104 l/sec)	Extract	62	66	68	62	59	60	52	45	39
	Supply	60	68	65	67	65	64	57	49	
	Breakout	60	55	63	59	52	48	40	32	
80% (95 l/sec)	Extract	59	63	64	56	55	56	47	39	35
	Supply	57	66	62	63	61	60	52	44	
	Breakout	56	54	60	54	47	44	34	25	
60% (62 l/sec)	Extract	48	56	52	46	48	48	38	31	25
	Supply	47	58	47	52	49	47	38	28	
	Breakout	46	44	48	46	38	34	21	21	
40% (34 l/sec)	Extract	38	50	42	37	35	32	20	14	17
	Supply	39	52	38	42	39	35	25	14	
	Breakout	35	36	39	39	31	26	10	18	

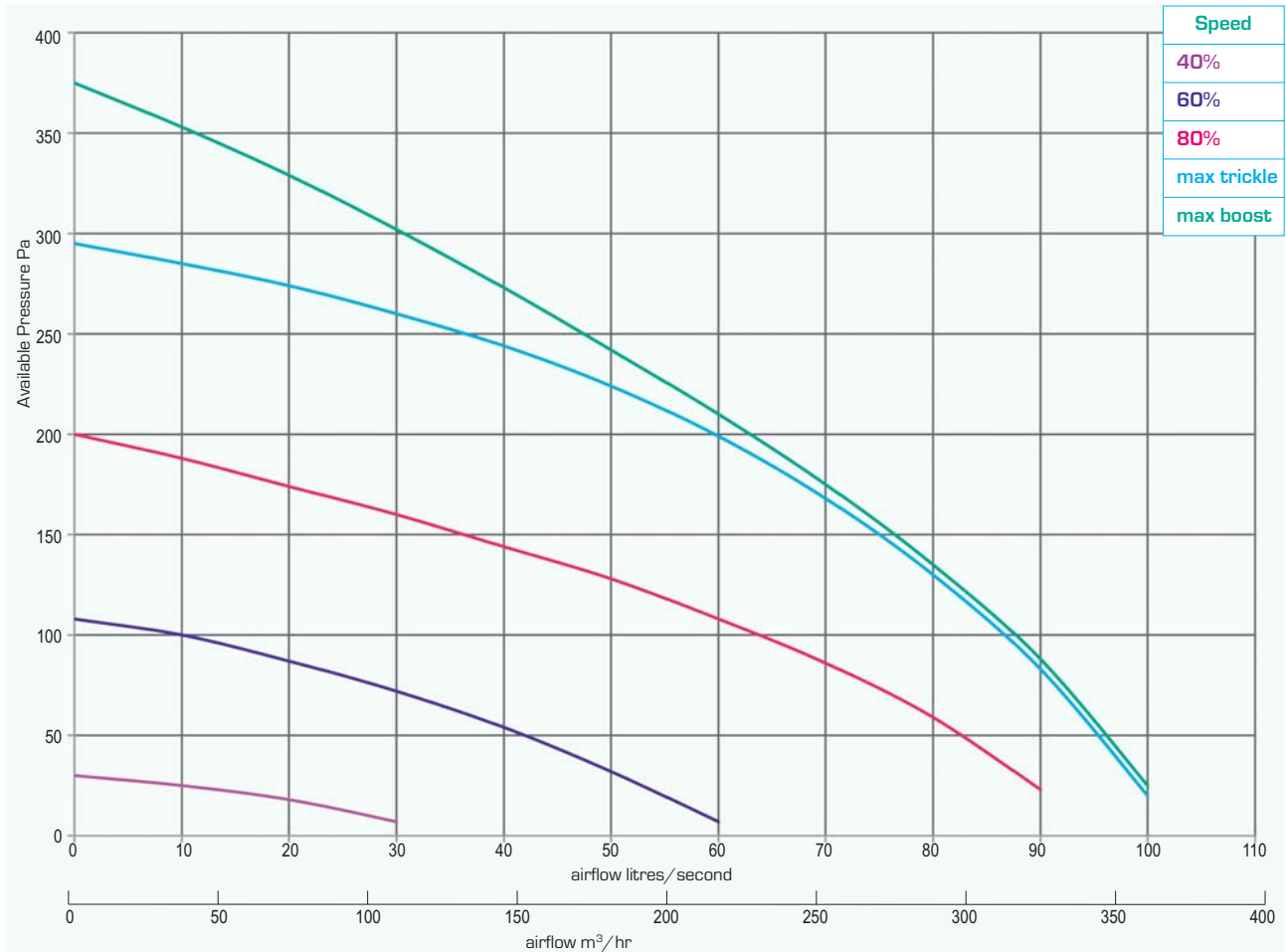
TYPICAL SPECIFICATION

Supply and install a Vectaire MBOX125/2DC energy efficient MEV which has been tested and is SAP Q Eligible as manufactured by Vectaire Ltd, Lincoln Road, Cressex Business Park, High Wycombe, Bucks, HP12 3RH. The unit is to give low level, continuous ventilation to a kitchen and five other wet rooms. The unit should be for loft, void, false ceiling or cupboard, installation and be no more than 184 mm deep. The unit should incorporate a low energy EC external rotor motor with sealed for life bearings for low noise levels and low energy consumption with an SFP down to 0.20. It should have a variable choice of low (trickle) speed and boost options for optimum setting. The unit should be pre-wired for easy electrical connection. It should comply with Part L1 2010 and Part F 2010 of Building Regulations, be EU RoHS Directive Compliant, conform to the requirements of EC Council directives relating to Electromagnetic Compatibility and Electrical Safety: 2006/95/CE (LVD), 2004/108/CE (EMC), EN 60335-2-80, be CE marked, be SAP Q eligible, EST Best Practice Performance compliant and be IPX4 rated.

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PERFORMANCE (curves are for guidance only)



DIMENSIONS - mm

