



low energy
environmentally friendly
economical
residential ventilation
with EC motors



vectaire

November 2018: Issue 9

Whole House Mechanical Ventilation MVHR, MEV, dMEV







Midi/Midi-BY-AT (MVHR) - Pages 8 & 12

- For wall or loft installation in homes and offices
- Midi BY-AT with acoustic attenuation very low noise levels
- Summer bypass and frost-stat
- Up to 94% heat exchange efficiency sfp from 0.50 W/I/s
- Up to 95 l/s at 50Pa max 101 l/s capacity
- Models with integral humidistat
- · Commissioned via integral LCD or remote LCD commissioning unit

Maxi/Maxi-BY-AT (MVHR) - Pages 16 & 20

- For wall or loft installation in homes and offices
- · Maxi BY-AT with acoustic attenuation very low noise levels
- Summer bypass and frost-stat
- Up to 92% heat exchange efficiency sfp from 0.40 W/I/s
- Up to 163 l/s at 50Pa max 177 l/s capacity
- Models with integral humidistat
- · Commissioned via integral LCD or remote LCD commissioning unit

Maxi Plus-BY/Maxi Plus-BY-AT (MVHR) - Pages 24 & 28

- For wall or loft installation in homes and offices
- · Maxi Plus BY-AT with acoustic attenuation very low noise levels
- · Summer bypass and frost-stat
- Up to 89% heat exchange efficiency sfp from 0.46 W/l/s
- Up to 230 l/s at 50Pa max 238 l/s capacity
- Models with integral humidistat
- · Commissioned via integral LCD or remote LCD commissioning unit

EVO200 & EVO250 (MVHR) - Pages 34 & 38

- For in-line installation in homes and offices
- Summer bypass and frost-stat
- Up to 94/88% heat exchange efficiency
- Up to 74/80 litre/sec at 50Pa max 81/85 l/s capacity
- Specific Fan Power from 0.64/0.70 W/I/s
- Models with integral humidistat
- Commissioned via remote LCD commissioning unit

EVO90 (MVHR) - Page 42

- For in-line installation in homes and offices
- Summer bypass and frost-stat
- Up to 79% heat exchange efficiency sfp from 0.71 W/I/s
- Up to 74 l/s at 50Pa max 80 l/s capacity
- Models with integral humidistat
- Commissioned via remote LCD commissioning unit

EV0350 (MVHR) - Page 46

- For in-line installation in homes and offices
- Summer bypass and frost-stat
- Up to 88% heat exchange efficiency sfp from 0.67 W/I/s
- Up to 107 l/s at 50Pa max 116 l/s capacity
- Models with integral humidistat
- Commissioned via remote LCD commissioning unit

Studio (MVHR) - Page 50

- For in-line installation in multi-occupancy establishments
- With and without summer bypass and frost-stat
- Up to 80% heat exchange efficiency sfp from 0.91 W/l/s
- Up to 55 l/s at 50Pa max 59 l/s capacity
- Models with integral humidistat
- Commissioned via remote LCD commissioning unit

Mini (MVHR) - Page 54

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- For in-line installation in multi-occupancy establishments
- With and without summer bypass and frost-stat
- Up to 83% heat exchange efficiency sfp from 1.11 W/I/s
- Up to 30 l/s at 50Pa max 34 l/s capacity
- · Commissioned via remote LCD commissioning unit











WHHR100/90DC-B-BY (MVHR) - Page 58 WHHR100/90DC (MVHR) - Page 62

MBOX125/2DC-B (MEV) - Page 66

- · For in-line installation in homes and offices
- Ultra low profile less than 184mm deep
- Up to 97 l/s at 50Pa max 108 l/s capacity
- sfp from 0.20 W/I/s
- Purge option factory set
- Available with 204mm x 60mm spigot
- · Continuous running choice of trickle and boost speeds

MBOX200/2DC (MEV) - Page 70

- For in-line installation in homes and offices
- Up to 233 l/s at 50Pa max 251 l/s capacity
- sfp from 0.27 W/l/s
- Purge option factory set
- Available with 220mm x 90mm spigot
- · Continuous running choice of trickle and boost speeds

Elegance (dMEV) - Page 74

- Continuous running 3 speed (2 trickle speeds and boost) axial fan
- · For installation in all domestic wet rooms
- Up to 26.9 litre/sec capacity sfp from 0.09 W/l/s
- Best SFP in Class
- AC motor versions in 100mm Ø and 150mm Ø available Page 90

Elix (dMEV) - Page 78

- Continuous running 3 speed (2 trickle speeds and boost) centrifugal fan
- EC motor for high efficiency low energy usage
- For installation in all domestic wet rooms
- Up to 28 litre/sec capacity sfp from 0.14 W/l/s
- Best SFP in Class

ELPREX (dMEV) - Page 82

- Continuous running 4 speed (1 trickle and choice of 3 boost speeds) centrifugal fan
- · Energy efficient motor
- · For installation in walls and ceilings in all kitchens
- Up to 60 litre/sec capacity sfp from 0.35 W/l/s

E-Smile (dMEV) - Page 86

- Continuous running 3 speed (2 trickle speeds and boost) axial fan
- Up to 21 litre/sec capacity
- Specific Fan Power from 0.37 W/I/s

Heatrec1003 - Page 93

- Single room heat recovery unit
- EC motors for high efficiency low energy usage
- Recovers up to 75% of heat from extracted, polluted air
- 3 speed for any domestic wet room
- Continuous running choice of trickle and boost speeds
- Heat exchange tube available in 3 lengths
- With summer bypass and frost-stat

Elegance - EL100 and EL150 - Page 90

MVHR



Vertical Models - features and overview

		Midi			Maxi			Maxi Plus	6
	S*	H*	AT*	S*	H*	AT*	S*	H*	AT*
Automatic Summer Bypass	1	/	1	1	/	/	1	/	/
Automatic Frost Protection	1	1	1	1	1	1	1	✓	1
Filters	1	1	1	1	1	1	1	✓	1
Delay Timer	1	1	1	1	1	1	1	✓	1
Purge Speed (factory set)	1	1	1	1	1	1	1	✓	/
Purge Speed Timer	1	1	1	1	1	1	1	1	1
Built-in Humidistat	×	/	on request	×	1	on request	×	/	on request
Universal Handing (non-humidistat models)	1	×	1	1	×	1	1	×	1
Very low noise levels	1	/	1	1	1	1	1	/	1
Max Airflow at 50Pa - I/s	95	95	95	163	163	163	230	230	230
Max Wet Rooms - Kitchen + SAP2009/SAP2012	K+6/4	K+6/4	K+6/4	K+7/7	K+7/7	K+7/7	K+7/7	K+7/7	K+7/7
SFP w/l/s SAP2009/SAP2012	0.50/0.51	0.50/0.51	0.50/0.51	0.40/0.45	0.40/0.45	0.40/0.45	0.46/0.47	0.46/0.47	0.46/0.47
% Heat Recovery SAP2009/SAP2012	94/93	94/93	94/93	92/92	92/92	92/92	89/89	89/89	89/89
Duct Size - Ømm	125	125	125	150	150	150	150	150	150
Wired Remote Control (optional)	1	/	/	/	/	/	/	/	/
External Condensate	/	/	/	/	/	/	/	/	/
Size mm W x H x D	600 x 56	64 x 382	648 x 595 x 395	754 x 65	54 x 535	802 x 703 x 560	754 x 6	54 x 535	802 x 703 x 560
Weight kg	2	4	29	3	7	42	Э	37	
Enhanced Acoustic Attenuation	×	×	1	×	×	1	×	×	1

S* - standard models

H* - models with integral humidistatAT* - models with acoustic attenuation

MVHR



Horizontal Models - features and overview

	EVO	200	EVO	250	EVO	090	EVO	350	Stu	ıdio	M	lini	100	HHR 1/90 CB
	S*	H*	S*	H*	S*	H*	S*	H*	S*	H*	S*	H*	S*	H*
Automatic Summer Bypass	1	1	1	/	1	1	1	/	1	/	1	1	1	/
Automatic Frost Protection	1	1	1	✓	1	1	1	1	1	/	1	/	1	/
Filters	1	1	1	✓	1	1	1	1	1	/	1	/	1	/
Delay Timer	1	1	1	/	1	/	1	1	1	/	1	/	1	/
Purge Speed (factory set)	1	1	1	/	1	/	1	/	1	/	1	/	1	/
Purge Speed Timer	1	1	1	/	1	1	1	1	1	/	1	/	1	/
Built-in Humidistat	×	1	×	/	×	/	×	/	×	/	×	/	×	/
Universal Handing (non-humidistat models)	1	×	1	×	×	×	1	×	×	×	×	×	×	×
Very low noise levels	1	1	1	/	1	1	1	/	1	/	1	/	1	/
Max Airflow at 50Pa - I/s	74	74	80	80	74	74	107	107	55	55	30	30	78	78
Max Wet Rooms - Kitchen+ SAP2009/SAP2012	K+6/4	K+6/4	K+6/4	K+6/4	K+-/6	K+-/6	K+7/6	K+7/6	K+5/3	K+5/3	K+2/1	K+2/1	K+4/3	K+4/3
SFP w/l/s SAP2009/SAP2012	0.64/ 0.70	0.64/ 0.70	0.70/ 0.75	0.70/ 0.75	-/0.71	-/0.71	0.67/ 0.75	0.67/ 0.75	0.80/ 0.79	0.80/ 0.79	1.11/ 1.40	1.11/ 1.40	0.63/ 0.76	0.63/ 0.76
% Heat Recovery SAP2009/SAP2012	94/93	94/93	88/87	88/87	-/79	-/79	87/87	87/87	84/84	84/84	83/82	83/82	92/91	92/91
Duct Size - Ømm or mm x mm		x 60	204	- · x 60	18	25	20		16	25	18	25 -		25 -
Wired Remote Control (optional)	1	✓	1	✓	1	✓	1	✓	1	✓	1	/	1	/
External Condensate	1	1	1	/	1	/	1	/	1	/	1	/	1	/
Size mm W x H x D		754 x 98		650 x 50		635 x 50		650 x 50		534 x 20		400 x 20		562 x
Weight kg	28	28	21	21	24	24	30	30	17	17	9	9	22	22

Page 5

S* - standard models

H* - models with integral humidistat

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Vertical MVHR

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Midi and Maxi

Vectaire's range of vertical MVHRs include the Midi, the Maxi and the Maxi Plus. These models provide optimum ventilation by continuously and quietly supplying fresh air. The energy efficient motors automatically remove excess moisture helping to maintain a healthy atmosphere.

They tackle condensation in areas from 60m² to 400m² making them ideal for all residential dwellings, whether houses, apartments or student accommodation with the most powerful models also being suitable for hotels, care homes, multi-occupancy establishments and other commercial properties.

These models meet the latest requirements of the Building Regulations for whole house ventilation systems with heat recovery [System 4].

How They Work

They incorporate two fans - one extracts stale, damp air from the wet rooms in a building, and the other replaces it with warmed fresh air from outside. The two airflows pass through a heat exchanger which recovers the heat from the outgoing air. This is filtered and tempered before being transferred to the incoming fresh air supply and ducted to the living areas. Thus the dwelling is permanently well ventilated and comfortable with good indoor air quality.

Vectaire MVHRs can recover up to 94% of the heat which might otherwise be lost.

The speed of the two fans can be adjusted independently with a choice of variable trickle, boost and purge speeds at installation.

All models have universal handing apart from 'H' humidistat models (see below).

Summer Bypass

All models incorporate a summer bypass which allows the two airflows to bypass the heat exchanger automatically when internal and external temperatures are between adjustable setpoints.

Frost Protection

The integral frost-stat proportionally reduces intake motor speed as the temperature falls. This stops the ingress of cold air and consequently the removal of warm air making sure that the ambient remains comfortable. It is activated when the outside temperature is between $+8^{\circ}\text{C}$ and -3°C .

Humidity Control

Models with an integral humidity sensor [H] increase the speed of the motors proportionally as the humidity rises. It responds to increases in relative humidity ensuring a comfortable ambience throughout the day and night. The speed of the motors will fall back to normal levels once the excess humidity has been cleared making sure the minimum amount of energy is used.

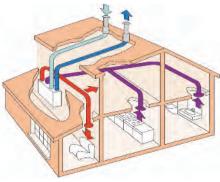
"Super Silent"

The Midi, Maxi and Maxi Plus AT models incorporate additional acoustic attenuation making them ultra quiet - the quietest in the market place.

LCD Control

All models can have an integral or remote commissioning state-ofthe-art touch screen LCD controller. It is one of the most technologically advanced available giving both installer and user a range of options to ensure that the MVHR is set to provide quiet and efficient ventilation at all times whilst recovering the heat that would otherwise be lost.

TYPICAL INSTALLATION



Incoming fresh air

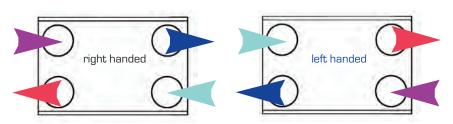
Warmed fresh air

Extracted warm, moist, stale air

Cooled outgoing stale air

MVHR

TOP VIEW OF HANDING FOR HUMIDISTAT MODELS



MVHR LCD Controller





- For use with all Vectaire Heat Recovery Units
- Option of Integral LCD screen with upright MVHRs (Midis and Maxis)
- Remote units can be mounted wherever is convenient to the user [Model No: LCD-DISPLAY]

LCD Touch Screen Functions

Display shows:

- > motor speeds for both supply and extract fans. They can be set independently and are variable
- > inside and outside temperatures
- > status icons show which functions are currently controlling fan speeds
- > date and time
- > relative humidity level
- > bypass status
- > error and service notifications
- > filter saturation level shows when filters need replacing

LCD Touch Screen Functions for USER

- > screen allows USER to set and control:
 - time
 - date
 - reset the filter saturation level after filters have been changed
 - holiday mode sets system to minimum running, saving energy whilst maintaining air quality
 - operating speed
 - language



Commissioning Options - these options are ONLY for use by the installer, and can only be used with a Commissioning Access Code.

If an incorrect passcode is entered 5 times consecutively the system will automatically lock for one hour. Access permissions are lost every time the option screen is exited.



Setting Time: sets up 12 or 24hr format, DST (daylight saving time) and time zone.



Language Selection



Setting Date: sets date format



Touch Screen Calibration



Holiday Mode: sets system to minimum running when required (factory set to maintain air quality)



Commissioning Screen



Boost Speed Time Delay



Night Time Boost Inhibitor



Boost Speed Over-run Timer



Screen Cleaning: wipe screen safely without deleting settings



Run Time Counter and Filter Saturation



Exit to main screen

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Midi









Midi

- with summer bypass and frost-stat
- efficient, low energy solution to controlling condensation and pollution in residential properties up to 170m²
- up to 94% heat exchange efficiency
- variable choice of low (trickle), boost and purge speed at installation
- for wall, cupboard or loft installation

- universal handing for models without humidistat
- very quiet
- low running costs
- complies with Building Regulations
 Parts L1A 2013 and F 2013
- manufactured in UK to ISO 9001
- accurate commissioning via optional integral LCD or remote LCD commissioning unit

Midi

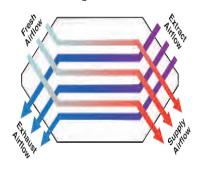


GENERAL FEATURES

- up to 95 litre/sec at 50Pa max 101 litre/sec capacity
- sfp down to 0.50 W/l/s
- summer bypass which allows the two airflows to bypass the heat exchanger automatically when internal and external temperatures are between adjustable setpoints.
- frost-stat proportionally reduces intake motor speed as temperature falls - activated when the outside temperature between +8°C and -3°C.
- run-time and power outage counters
- easy to install and maintain
- easy to access G3 filters
- universal handing for models without humidistat left or right (see separate diagram on page 6 for handing on humidistat models)
- for fitting vertically into lofts, or cupboards wall fixing bracket supplied
- variable low (trickle), boost and purge options for each motor
- boost speed can be activated by a 230V switched live from:
 - A light switch (if more than one light switch is used, each one must be a double pole switch)
 - Remote humidistat (230V DRH240)
 - Passive infra red (230V PIRFF)
 - Thermostat (230V THM)
 - Remote switch/pull cord 230V
- ultra quiet
- low running costs
- 5 year warranty 1 year parts and labour, 4 years parts only

TECHNICAL FEATURES

- compact unit casing from steel sheet epoxy paint finish
- thermo-acoustic lining
- low energy EC brushless motor with single width, single inlet, direct drive, forward curved impellors
- operates in temperature up to 60°C
- easy to access standard, disposable G3 filters
- counter flow heat exchanger



CONTROL FEATURES - STANDARD

- independent variable speed adjustment for each motor for trickle, boost and purge speeds.
- adjustable boost speed over-run timer from 0 to 90 minutes.
- adjustable boost speed delay from 0 to 5 minutes
- remote purge adjustable over-run timer from 0 to 250 minutes, pre-set to 15 minutes (adjustable at factory).
- · adjustable night time boost and purge inhibitor
- integral frost-stat proportionally reduces intake motor speed as temperature falls
- · automatic summer bypass

CONTROL FEATURES - FACTORY SET

- change of ductwork handing on humidistat version (trip point can be set at manufacture)
- integral humidistat proportionally increases motor speeds with rising humidity
- 0-10V connections can be added for:
 - BMS for remote motor shut-off
 - CO₂ detector
 - home automation system
 - external pre-heater
- 3 speed selector switch
- remote purge
- purge speed over-run time
- holiday mode for reduced speeds when property is unoccupied (factory set option) - default setting is 50% of trickle speed
- run-time and power outage counters downloadable via QR code.

COMPLIES WITH

- Part L1A 2013 of Building Regulations for enhanced energy saving capability
- Part F 2013 of Building Regulations for reliable, efficient ventilation
- EU RoHS Directive Compliant.
- Complies with IEC60335-2-80, LVD2006/95/CE and EMC2014/30/UE (European Directive against radio interference and electro-magnetic compatibility
- manufactured in UK to ISO 9001
- CE marked
- SAP PCDB Listed

TYPICAL SPECIFICATION AVAILABLE AT http://www.vectaire.co.uk/downloads

MODELS AVAILABLE:

- WHHR-Midi/BY bypass, universal
- WHHR-Midi/LBYH bypass, left drain, humidistat
- WHHR-Midi/RBYH bypass, right drain, humidistat
- Midi-BY+LCD bypass, universal, integral LCD
- Midi-BY+LCDLH bypass, integral LCD, left drain, humidistat
- Midi-BY+LCDRH bypass, integral LCD, right drain, humidistat

Vectaire Ltd can supply all accessories for use with these units, including product filters. 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





TECHNICAL CHARACTERISTICS										
Model		Ai	irflow I/se	ec	Total Power - Watts					
iviouei	100%	80%	60%	40%	20%	100%	80%	60%		20%
Midi	101	79	58	36	14	120	69	31	11	2.2

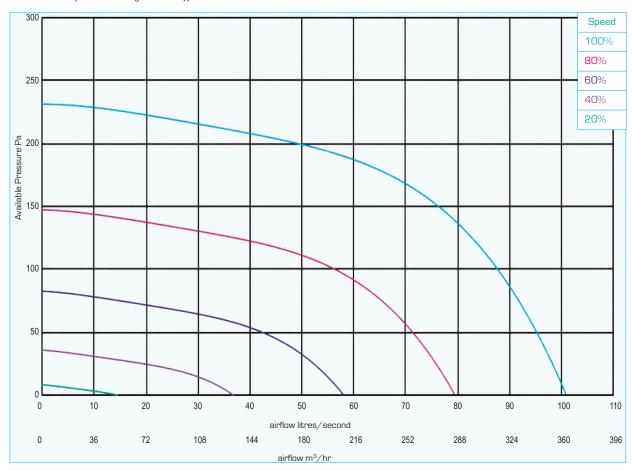
N	1 idi	S	ound Pow	ver Levels	, <i>L_w</i> (dB) -	Octave E	Bands Fre	quency H	Z.	Sound Pressure	
Curve Ref		63	125	250	500	1k	2k	4k	8k	dBA @ 3m	
4.00%	Extract	65	65	63	63	59	58	57	54		
100% [101 l/sec]	Supply	70	70	68	68	64	63	62	59		
[101/ 000]	Breakout	55	57	53	42	34	31	24	17	29.7	
000/	Extract	61	61	58	58	54	53	50	46		
80% (79 l/sec)	Supply	66	66	63	63	59	58	55	51		
(70 % 000)	Breakout	53	57	49	38	32	28	21	15	27.2	
CO 0/	Extract	55	55	51	51	47	45	41	36		
60% (58 l/sec)	Supply	60	60	56	56	52	50	46	41		
(33 % 333)	Breakout	50	55	45	36	30	23	16	13	24.4	
400/	Extract	47	46	41	41	38	35	29	21		
40% (36 l/sec)	Supply	52	51	46	46	43	40	34	26		
[33 1/ 333]	Breakout	42	52	41	36	27	17	12	11	21.6	
000/	Extract	33	32	24	24	22	18	8	4		
20% [14 l/sec]	Supply	38	37	29	29	27	23	14	7		
(/ 500)	Breakout	38	52	35	28	18	10	10	11	19.2	
The breakout	The breakout dB(A) sound pressure values are given for hemispherical free field propagation at a distance of 3m from the unit										

RESULTS for SAP CALCULATIONS ENERGY LEVEL PERFORMANCE - using rigid ducting only												
		2009 Data			2012 Data							
Exhaust Terminal Configuration	Airflow [I/sec]	Specific Fan Power (W/I/sec)	Heat Exchange Efficiency	Airflow (I/sec)	Specific Fan Power (W/I/sec)	Heat Exchange Efficiency						
Kitchen + 1 additional wet room	15	0.50	94%	21	0.51	93%						
Kitchen + 2 additional wet rooms	21	0.50	93%	29	0.61	91%						
Kitchen + 3 additional wet rooms	27	0.55	92%	37	0.75	90%						
Kitchen + 4 additional wet rooms	33	0.65	91%	45	0.92	89%						
Kitchen + 5 additional wet rooms	39	0.76	89%									
Kitchen + 6 additional wet rooms	45	0.88	89%									
Figures at minimum flow rate conditions												

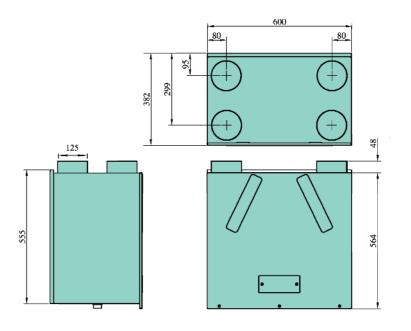




PERFORMANCE (curves are for guidance only)



DIMENSIONS - mm



N.B a clearance of at least 150 mm should be allowed on each side of the cabinet for access to the interior

Midi-BY-AT

vectaire

with acoustic attenuation









Midi-BY-AT

- very low noise levels lined with Class "O" fire resistant acoustic foam
- with summer bypass and frost-stat
- efficient, low energy solution to controlling condensation and pollution in residential properties up to 170m²
- up to 94% heat exchange efficiency
- variable choice of low (trickle), boost and purge speed at installation
- for wall, cupboard or loft installation

- universal handing for models without humidistat
- low running costs
- complies with Building Regulations
 Parts L1A 2013 and F 2013
- manufactured in UK to ISO 9001
- accurate commissioning via integral touch screen LCD

Midi-BY-AT

vectaire

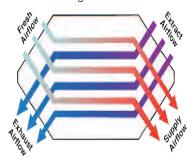
with acoustic attenuation

GENERAL FEATURES

- extremely low noise levels
- up to 95 litre/sec at 50Pa max 101 litre/sec capacity
- sfp down to 0.50 W/I/s
- summer bypass which allows the two airflows to bypass the heat exchanger automatically when internal and external temperatures are between adjustable setpoints.
- frost-stat proportionally reduces intake motor speed as temperature falls - activated when the outside temperature between +8°C and -3°C.
- run-time and power outage counters
- easy to install and maintain
- easy to access G3 filters
- universal handing for models without humidistat left or right (see separate diagram on page 6 for handing on humidistat models)
- for fitting vertically into lofts, or cupboards wall fixing bracket supplied
- variable low (trickle), boost and purge options for each motor
- boost speed can be activated by a 230V switched live from:
 - A light switch (if more than one light switch is used, each one must be a double pole switch)
 - Remote humidistat (230V DRH240)
 - Passive infra red (230V PIRFF)
 - Thermostat (230V THM)
 - Remote switch/pull cord 230V
- · low running costs
- 5 year warranty 1 year parts and labour, 4 years parts only

TECHNICAL FEATURES

- compact unit casing from steel sheet epoxy paint finish
- · lined with Class "O: fire resistant acoustic foam
- low energy EC brushless motor with single width, single inlet, direct drive, forward curved impellors
- operates in temperature up to 60°C
- easy to access standard, disposable G3 filters
- counter flow heat exchanger



MODELS AVAILABLE:

- Midi BY-AT+LCD bypass, attenuation, universal, integral LCD
- Midi BYAT+LCDLH bypass, attenuation, left drain, humidistat, integral LCD
- Midi BYAT+LCDRH bypass, attenuation, right drain, humidistat, integral LCD

CONTROL FEATURES - STANDARD

- independent variable speed adjustment for each motor for trickle, boost and purge speeds.
- adjustable boost speed over-run timer from 0 to 90 minutes.
- · adjustable boost speed delay from 0 to 5 minutes
- remote purge adjustable over-run timer from 0 to 250 minutes, pre-set to 15 minutes (adjustable at factory).
- adjustable night time boost and purge inhibitor
- integral frost-stat proportionally reduces intake motor speed as temperature falls
- automatic summer bypass

CONTROL FEATURES - FACTORY SET

- change of ductwork handing on humidistat version (trip point can be set at manufacture)
- integral humidistat proportionally increases motor speeds with rising humidity
- 0-10V connections can be added for:
 - BMS for remote motor shut-off
 - CO₂ detector
 - home automation system
 - external pre-heater
- 3 speed selector switch
- remote purge
- purge speed over-run time
- holiday mode for reduced speeds when property is unoccupied (factory set option)
- run-time and power outage counters downloadable via QR code.

COMPLIES WITH

- Part L1A 2013 of Building Regulations for enhanced energy saving capability
- Part F 2013 of Building Regulations for reliable, efficient ventilation
- EU RoHS Directive Compliant.
- Complies with IEC60335-2-80, LVD2006/95/CE and EMC2014/30/UE (European Directive against radio interference and electro-magnetic compatibility
- manufactured in UK to ISO 9001
- CE marked
- SAP PCDB Listed

TYPICAL SPECIFICATION AVAILABLE AT

http://www.vectaire.co.uk/downloads

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Midi-BY-AT



with acoustic attenuation

TECHNICAL CHARACTERISTICS										
Model		Ai	rflow I/se	ec		Total Power - Watts				
iviouei	100%	80%	60%	40%	20%	100%	80%	60%	40%	20%
Midi-BY-AT 101 79 58 36 14 120 69 31 11 2.2										

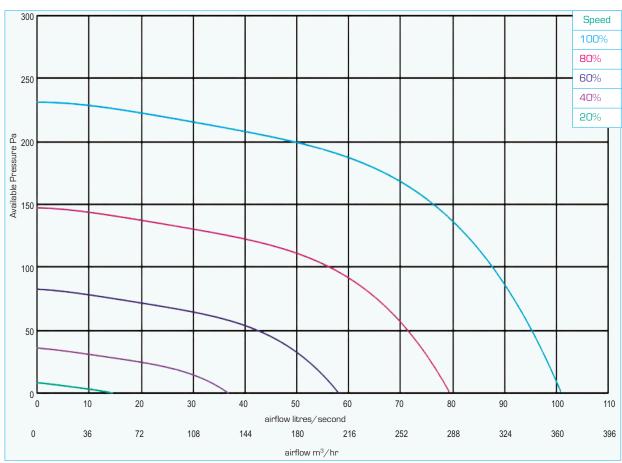
Midi-	BY-AT	S	ound Pov	ver Levels	, L _w (dB) -	Octave E	Bands Fre	equency H	Z.	Sound Pressure	
Curve Ref		63	125	250	500	1k	2k	4k	8k	dBA @ 3m	
	Extract	65	65	63	63	59	58	57	54		
100% [101 l/sec]	Supply	70	70	68	68	64	63	62	59	1	
[101]/ 360]	Breakout	53	55	48	35	26	23	17	11	25.3	
000/	Extract	61	61	58	58	54	53	50	46		
80% (79 l/sec)	Supply	66	66	63	63	59	58	55	51		
(701) 300)	Breakout	50	55	44	30	24	20	14	9	23.4	
000/	Extract	55	55	51	51	47	45	41	36		
60% (58 l/sec)	Supply	60	60	56	56	52	50	46	41	-	
[00 1/ 300]	Breakout	45	51	38	37	21	16	10	8	18.7	
400/	Extract	47	46	41	41	38	35	29	21		
40% (36 l/sec)	Supply	52	51	46	46	43	40	34	26		
[00 1/ 300]	Breakout	38	48	35	27	19	12	8	7	15.8	
000/	Extract	33	32	24	24	22	18	8	4		
20% [14 l/sec]	Supply	38	37	29	29	27	23	14	7		
[141/300]	Breakout	34	47	30	21	12	7	7	7	14.4	
The breakout	dB(A) sound pr	essure valu	ues are giv	en for he	mispherica	al free field	d propaga	tion at a d	istance o	f 3m from the unit	

RESULTS for SAP CALCULATIONS											
ENERGY LEVEL PERFORMANCE - us	sing rigid ducti	ng only									
		2009 Data			2012 Data						
Exhaust Terminal Configuration	Airflow (I/sec)	Specific Fan Power (W/I/sec)	Specific Fan Power (W/I/sec)	Heat Exchange Efficiency							
Kitchen + 1 additional wet room	15	0.50	94%	21	0.51	93%					
Kitchen + 2 additional wet rooms	21	0.50	93%	29	0.61	91%					
Kitchen + 3 additional wet rooms	27	0.55	92%	37	0.75	90%					
Kitchen + 4 additional wet rooms	33	0.65	91%	45	0.92	89%					
Kitchen + 5 additional wet rooms	39	0.76	89%								
Kitchen + 6 additional wet rooms 45 0.88 89%											
Figures at minimum flow rate conditions											

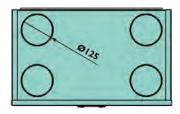
Midi-BY-AT

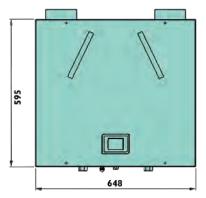
with acoustic attenuation

PERFORMANCE (curves are for guidance only)



DIMENSIONS - mm







N.B a clearance of at least 150 mm should be allowed on each side of the cabinet for access to the interior

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Maxi









Maxi

- with summer bypass and frost-stat
- efficient, low energy solution to controlling condensation and pollution in residential properties up to 250m²
- up to 92% heat exchange efficiency
- variable choice of low (trickle), boost and purge speed at installation
- for wall, cupboard or loft installation

- universal handing for models without humidistat
- very quiet
- low running costs
- complies with Building Regulations
 Parts L1A 2013 and F 2013
- manufactured in UK to ISO 9001
- accurate commissioning via optional integral LCD or remote LCD commissioning unit

Maxi

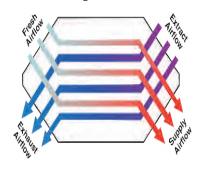


GENERAL FEATURES

- up to 163 litre/sec at 50Pa max 177 litre/sec capacity
- sfp down to 0.40 W/l/s
- summer bypass which allows the two airflows to bypass the heat exchanger automatically when internal and external temperatures are between adjustable setpoints.
- frost-stat proportionally reduces intake motor speed as temperature falls - activated when the outside temperature between +8°C and -3°C.
- run-time and power outage counters
- easy to install and maintain
- easy to access G3 filters
- universal handing for models without humidistat left or right (see separate diagram on page 6 for handing on humidistat models)
- for fitting vertically into lofts, or cupboards wall fixing bracket supplied
- · variable low (trickle), boost and purge options for each motor
- boost speed can be activated by a 230V switched live from:
 - A light switch (if more than one light switch is used, each one must be a double pole switch)
 - Remote humidistat (230V DRH240)
 - Passive infra red (230V PIRFF)
 - Thermostat (230V THM)
 - Remote switch/pull cord 230V
- low noise levels
- low running costs
- 5 year warranty 1 year parts and labour, 4 years parts only

TECHNICAL FEATURES

- casing from steel sheet epoxy paint finish
- foam construction lining
- EPS internal components provide acoustic and thermal enhancement
- low energy EC brushless motor with single width, single inlet, direct drive, forward curved impellors
- operates in temperature up to 60°C
- easy to access standard, disposable G3 filters
- counter flow heat exchanger



CONTROL FEATURES - STANDARD

- independent variable speed adjustment for each motor for trickle, boost and purge speeds.
- adjustable boost speed over-run timer from 0 to 90 minutes.
- adjustable boost speed delay from 0 to 5 minutes
- remote purge adjustable over-run timer from 0 to 250 minutes, pre-set to 15 minutes (adjustable at factory).
- adjustable night time boost and purge inhibitor
- integral frost-stat proportionally reduces intake motor speed as temperature falls
- · automatic summer bypass

CONTROL FEATURES - FACTORY SET

- change of ductwork handing on humidistat version (trip point can be set at manufacture)
- integral humidistat proportionally increases motor speeds with rising humidity
- 0-10V connections can be added for:
 - BMS for remote motor shut-off
 - CO2 detector
 - home automation system
 - external pre-heater
- 3 speed selector switch
- remote purge
- purge speed over-run time
- holiday mode for reduced speeds when property is unoccupied (factory set option) - default setting is 50% of trickle speed
- run-time and power outage counters downloadable via QR code.

COMPLIES WITH

- Part L1A 2013 of Building Regulations for enhanced energy saving capability
- Part F 2013 of Building Regulations for reliable, efficient ventilation
- EU RoHS Directive Compliant.
- Complies with IEC60335-2-80, LVD2006/95/CE and EMC2014/30/UE (European Directive against radio interference and electro-magnetic compatibility
- manufactured in UK to ISO 9001
- CE marked
- SAP PCDB Listed

TYPICAL SPECIFICATION AVAILABLE AT

http://www.vectaire.co.uk/downloads

MODELS AVAILABLE:

- WHHR Maxi/ BY bypass, universal
- WHHR Maxi/ BLH bypass, left drain humidistat
- WHHR Maxi/ BRH bypass, right drain, humidistat
- Maxi BY+LCD bypass, universal, integral LCD
- Maxi+LHHLCD bypass, left drain, humidistat, integral LCD
- Maxi+RHHLCD bypass, right drain, humidistat, integral LCD

Vectaire Ltd can supply all accessories for use with these units, including product filters. 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





TECHNICAL CHARACTERISTICS											
Model		Ai	irflow I/se	ec	Total Power - Watts						
iviodei	100%	80%	60%	40%	20%	100%	80%	60%	40%	20%	
Maxi	177										

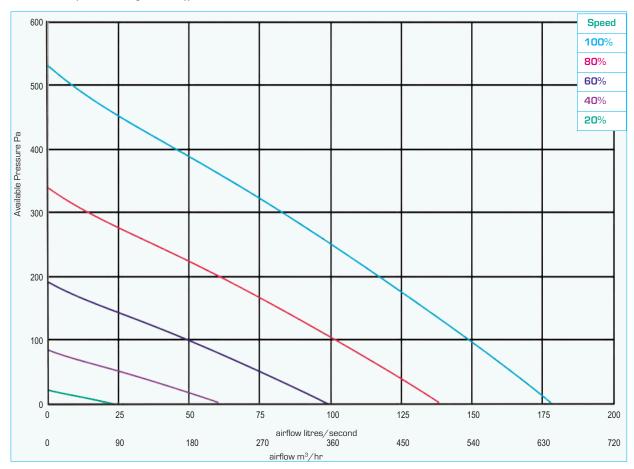
N	laxi	S	Sound Power Levels, $L_{\scriptscriptstyle W}$ (dB) - Octave Bands Frequency Hz.										
Curve Ref		63	125	250	500	1k	2k	4k	8k	dBA @ 3m			
4.000/	Extract	52	57	61	58	59	58	55	50				
100% (177 l/sec)	Supply	57	62	66	63	64	63	60	55				
[177 1/ 300]	Breakout	53	57	58	50	33	29	19	11	34.3			
000/	Extract	48	53	55	53	54	52	49	42				
80% (138 l/sec)	Supply	53	58	60	58	59	57	54	47				
(188 / 888)	Breakout	52	56	56	47	32	28	18	11	32.1			
000/	Extract	42	47	48	46	47	45	40	32				
60% (99 l/sec)	Supply	47	52	53	51	52	50	45	37				
[001/ 000]	Breakout	51	54	52	44	31	26	16	10	28.7			
400/	Extract	36	40	40	37	38	36	30	18				
40% (60 l/sec)	Supply	41	45	45	42	43	41	35	23				
(00 1/ 000)	Breakout	48	50	46	35	23	19	12	10	22.5			
000/	Extract	27	29	27	22	22	19	8	5				
20% 23 l/sec)	Supply	32	34	32	27	27	24	15	6				
20 1/ 300)	Breakout	44	50	37	28	16	11	10	10	18.0			
The breakout	dB(A) sound pre	ssure valu	The breakout dB(A) sound pressure values are given for hemispherical free field propagation at a distance of 3m from the unit										

RESULTS for SAP CALCULATIONS ENERGY LEVEL PERFORMANCE - using rigid ducting only											
		2009 Data			2012 Data						
Exhaust Terminal Configuration	Airflow (I/sec)	Specific Fan Power [W/I/sec]	Heat Exchange Efficiency	Airflow (I/sec)	Specific Fan Power [W/I/sec]	Heat Exchange Efficiency					
Kitchen + 1 additional wet room 15 0.43 92% 21 0.45 92%											
Kitchen + 2 additional wet rooms	21	0.40	92.%	29	0.47	92%					
Kitchen + 3 additional wet rooms	27	0.42	92%	37	0.54	91%					
Kitchen + 4 additional wet rooms	33	0.48	91%	45	0.66	90%					
Kitchen + 5 additional wet rooms	39	0.55	91%	53	0.80	90%					
Kitchen + 6 additional wet rooms	45	0.63	90%	61	0.99	89%					
Kitchen + 7 additional wet rooms	51	0.76	90%	69	1.21	89%					
Figures at minimum flow rate conditions											

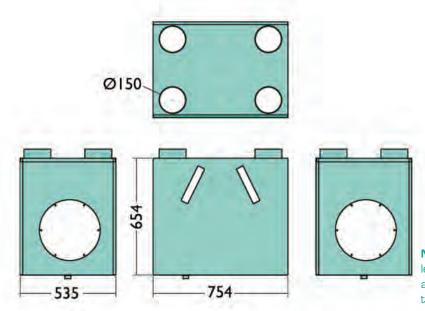
Maxi



PERFORMANCE (curves are for guidance only)



DIMENSIONS - mm



N.B a clearance of at least 150 mm should be allowed on each side of the cabinet for access to the interior

Maxi-BY-AT

vectaire

with acoustic attenuation









Maxi-BY-AT

- very low noise levels lined with Class "O" fire resistant acoustic foam
- with summer bypass and frost-stat
- efficient, low energy solution to controlling condensation and pollution in residential properties up to 250m²
- up to 92% heat exchange efficiency
- variable choice of low (trickle), boost and purge speed at installation
- for wall, cupboard or loft installation

- universal handing for models without humidistat
- low running costs
- complies with Building Regulations
 Parts L1A 2013 and F 2013
- manufactured in UK to ISO 9001
- accurate commissioning via integral touch screen LCD

Maxi-BY-AT

vectaire

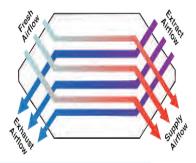
with acoustic attenuation

GENERAL FEATURES

- extremely low noise levels
- up to 163 litre/sec at 50Pa max 177 litre/sec capacity
- sfp down to 0.40 W/l/s
- summer bypass which allows the two airflows to bypass the heat exchanger automatically when internal and external temperatures are between adjustable setpoints.
- frost-stat proportionally reduces intake motor speed as temperature falls - activated when the outside temperature between +8°C and -3°C.
- run-time and power outage counters
- · easy to install and maintain
- easy to access G3 filters
- universal handing for models without humidistat left or right (see separate diagram on page 6 for handing on humidistat models)
- for fitting vertically into lofts, or cupboards wall fixing bracket supplied
- · variable low (trickle), boost and purge options for each motor
- boost speed can be activated by a 230V switched live from:
 - A light switch (if more than one light switch is used, each one must be a double pole switch)
 - Remote humidistat (230V DRH240)
 - Passive infra red (230V PIRFF)
 - Thermostat (230V THM)
 - Remote switch/pull cord 230V
- low running costs
- 5 year warranty 1 year parts and labour, 4 years parts only

TECHNICAL FEATURES

- casing from steel sheet epoxy paint finish
- lined with Class "O: fire resistant acoustic foam
- low energy EC brushless motor with single width, single inlet, direct drive, forward curved impellors
- operates in temperature up to 60°C
- easy to access standard, disposable G3 filters
- counter flow heat exchanger



MODELS AVAILABLE:

- Maxi BY-AT+-LCD bypass, attenuation universal, integral LCD
- Maxi BYAT+LCDLH bypass, attenuation, left drain, humidistat, integral LCD
- Maxi BYAT+LCDRH bypass, attenuation, right drain, humidistat, integral LCD

CONTROL FEATURES - STANDARD

- independent variable speed adjustment for each motor for trickle, boost and purge speeds.
- adjustable boost speed over-run timer from 0 to 90 minutes.
- · adjustable boost speed delay from 0 to 5 minutes
- remote purge adjustable over-run timer from 0 to 250 minutes, pre-set to 15 minutes (adjustable at factory).
- · adjustable night time boost and purge inhibitor
- integral frost-stat proportionally reduces intake motor speed as temperature falls
- automatic summer bypass

CONTROL FEATURES - FACTORY SET

- change of ductwork handing on humidistat version (trip point can be set at manufacture)
- integral humidistat proportionally increases motor speeds with rising humidity
- 0-10V connections can be added for:
 - BMS for remote motor shut-off
 - CO₂ detector
 - home automation system
 - external pre-heater
- 3 speed selector switch
- remote purge
- purge speed over-run time
- holiday mode for reduced speeds when property is unoccupied (factory set option) - default setting is 50% of trickle speed
- run-time and power outage counters downloadable via QR code.

COMPLIES WITH

- Part L1A 2013 of Building Regulations for enhanced energy saving capability
- Part F 2013 of Building Regulations for reliable, efficient ventilation
- EU RoHS Directive Compliant.
- Complies with IEC60335-2-80, LVD2006/95/CE and EMC2014/30/UE (European Directive against radio interference and electro-magnetic compatibility
- manufactured in UK to ISO 9001
- CE marked
- SAP PCDB Listed

TYPICAL SPECIFICATION AVAILABLE AT

http://www.vectaire.co.uk/downloads

Vectaire Ltd can supply all accessories for use with these units, including product filters. 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

Maxi-BY-AT



with acoustic attenuation

TECHNICAL CHARACTERISTICS										
Model		Ai	rflow I/se	ec	Total Power - Watts					
iviouei	100%	80%	60%		20%					
Maxi BY AT	177	138	99	60	23	176	97	44	17	4

Maxi	BYAT	S	ound Pow	ver Levels	, <i>L_w</i> (dB) -	Octave E	Bands Fre	quency H	Z.	Sound Pressure
Curve Ref		63	125	250	500	1k	2k	4k	8k	dBA @ 3m
	Extract	52	57	61	58	59	58	55	50	
100% [177 l/sec]	Supply	57	62	66	63	64	63	60	55	
[177 1/ 000]	Breakout	49	52	54	36	31	29	26	20	28.9
000/	Extract	48	53	55	53	54	52	49	42	
80% [138 l/sec]	Supply	53	58	60	58	59	57	54	47	
(100 % 000)	Breakout	45	48	44	31	26	23	20	12	23.2
000/	Extract	42	47	48	46	47	45	40	32	
60% (99 l/sec)	Supply	47	52	53	51	52	50	45	37	
[001/000]	Breakout	46	49	44	32	21	17	10	7	20.4
400/	Extract	36	40	40	37	38	36	30	18	
40% (60 l/sec)	Supply	41	45	45	42	43	41	35	23	
[001/000]	Breakout	43	46	39	26	16	13	7	7	15.9
200/	Extract	27	29	27	22	22	19	8	5	
23 I/ secj	Supply	32	34	32	27	27	24	15	6	
	Breakout	39	46	31	21	11	7	6	7	13.2
The breakout dB(A) sound pressure values are given for hemispherical free field propagation at a distance of 3m from the unit										

RESULTS for SAP CALCULATIONS ENERGY LEVEL PERFORMANCE - using rigid ducting only											
		2009 Data		2012 Data							
Exhaust Terminal Configuration	Airflow [I/sec] Specific Fan Power [W/I/sec] Efficiency Airflow [I/sec] Specific Fan Power [W/I/sec] Efficiency Fan Power [W										
Kitchen + 1 additional wet room	15	0.43	92%	21	0.45	92%					
Kitchen + 2 additional wet rooms	21	0.40	92.%	29	0.47	92%					
Kitchen + 3 additional wet rooms	27	0.42	92%	37	0.54	91%					
Kitchen + 4 additional wet rooms	33	0.48	91%	45	0.66	90%					
Kitchen + 5 additional wet rooms	39	0.55	91%	53	0.80	90%					
Kitchen + 6 additional wet rooms 45 0.63 90% 61 0.99 89%											
Kitchen + 7 additional wet rooms	51	0.76	90%	69	1.21	89%					
Figures at minimum flow rate conditions											

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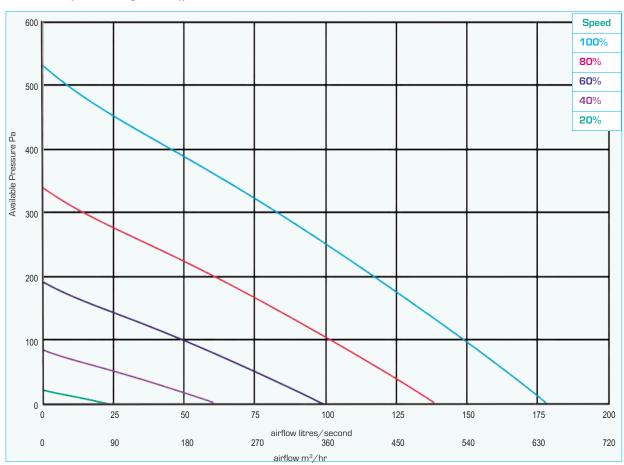
 Fax: +44(0)1494 522337
 Web: www.vectaire.co.uk

Maxi-BY-AT

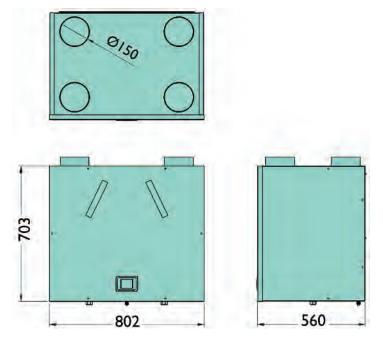
vectaire

with acoustic attenuation

PERFORMANCE (curves are for guidance only)



DIMENSIONS - mm



N.B a clearance of at least 150 mm should be allowed on each side of the cabinet for access to the interior

Maxi Plus BY











Maxi Plus BY

- with summer bypass and frost-stat
- efficient, low energy solution to controlling condensation and pollution in residential properties up to 400m²
- up to 89% heat exchange efficiency
- variable choice of low (trickle), boost and purge speed at installation
- for wall, cupboard or loft installation

- universal handing for models without humidistat
- very quiet
- low running costs
- complies with Building Regulations
 Parts L1A 2013 and F 2013
- manufactured in UK to ISO 9001
- accurate commissioning via optional integral LCD or remote LCD commissioning unit

Maxi Plus BY

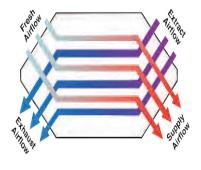


GENERAL FEATURES

- up to 230 litre/sec at 50Pa max 238 litre/sec capacity
- sfp down to 0.46 W/l/s
- summer bypass which allows the two airflows to bypass the heat exchanger automatically when internal and external temperatures are between adjustable setpoints.
- frost-stat proportionally reduces intake motor speed as temperature falls - activated when the outside temperature between +8°C and -3°C.
- run-time and power outage counters
- · easy to install and maintain
- easy to access G3 filters
- universal handing for models without humidistat left or right (see separate diagram on page 6 for handing on humidistat models)
- for fitting vertically into lofts, or cupboards wall fixing bracket supplied
- variable low (trickle), boost and purge options for each motor
- boost speed can be activated by a 230V switched live from:
 - A light switch (if more than one light switch is used, each one must be a double pole switch)
 - Remote humidistat (230V DRH240)
 - Passive infra red (230V PIRFF)
 - Thermostat (230V THM)
 - Remote switch/pull cord 230V
- low running costs
- 5 year warranty 1 year parts and labour, 4 years parts only

TECHNICAL FEATURES

- casing from steel sheet epoxy paint finish
- · foam construction lining
- EPS internal components provide acoustic and thermal enhancement.
- low energy EC brushless motor with single width, single inlet, direct drive, forward curved impellors
- operates in temperature up to 60°C
- easy to access standard, disposable G3 filters
- counter flow heat exchanger



CONTROL FEATURES - STANDARD

- independent variable speed adjustment for each motor for trickle, boost and purge speeds.
- adjustable boost speed over-run timer from 0 to 90 minutes.
- · adjustable boost speed delay from 0 to 5 minutes
- remote purge adjustable over-run timer from 0 to 250 minutes, pre-set to 15 minutes (adjustable at factory).
- adjustable night time boost and purge inhibitor
- integral frost-stat proportionally reduces intake motor speed as temperature falls
- automatic summer bypass

CONTROL FEATURES - FACTORY SET

- change of ductwork handing on humidistat version (trip point can be set at manufacture)
- integral humidistat proportionally increases motor speeds with rising humidity
- 0-10V connections can be added for:
 - BMS for remote motor shut-off
 - CO₂ detector
 - home automation system
 - external pre-heater
- 3 speed selector switch
- remote purge
- purge speed over-run time
- holiday mode for reduced speeds when property is unoccupied (factory set option) - default setting is 50% of trickle speed
- run-time and power outage counters downloadable via QR code.

COMPLIES WITH

- Part L1A 2013 of Building Regulations for enhanced energy saving capability
- Part F 2013 of Building Regulations for reliable, efficient ventilation
- EU RoHS Directive Compliant.
- Complies with IEC60335-2-80, LVD2006/95/CE and EMC2014/30/UE (European Directive against radio interference and electro-magnetic compatibility
- manufactured in UK to ISO 9001
- CE marked
- SAP PCDB Listed

TYPICAL SPECIFICATION AVAILABLE AT

http://www.vectaire.co.uk/downloads

MODELS AVAILABLE:

- Maxi Plus/BY bypass, universal,
- Maxi Plus/ BLH bypass, left drain, humidistat.
- Maxi Plus / BRH bypass, right drain, humidistat
- MaxiPlus BYLCD bypass, universal, integral LCD
- MaxiPlus BLHLCD bypass, left drain, humidistat, integral LCD
- MaxiPlus BRHLCD bypass, right drain, humidistat, integral LCD

Vectaire Ltd can supply all accessories for use with these units, including product filters. 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





TECHNICAL CHARACTERISTICS											
Model	Airflow I/sec						Total Power - Watts				
iviouei	100%	80%	60%	40%	20%	100%	80%	60%	40%	20%	
Maxi Plus BY 238 186 135 84 35 355 184 85 32 8											

Maxi I	Plus BY	S	ound Pow	er Levels	, <i>L_w</i> (dB) -	Octave E	Bands Fre	quency H	Z.	Sound Pressure		
Curve Ref		63	125	250	500	1k	2k	4k	8k	dBA @ 3m		
4.000/	Extract	67	63	66	64	64	61	58	54			
100% (238 l/sec)	Supply	72	68	71	69	69	66	63	59			
[200 1/ 000]	Breakout	68	63	63	55	37	31	21	18	39.4		
000/	Extract	63	58	61	59	58	55	51	46			
80% (186 l/sec)	Supply	68	63	66	64	63	60	56	51			
(100 % 000)	Breakout	67	61	61	52	36	30	20	13	37.2		
000/	Extract	58	52	53	51	51	48	43	35			
60% (135 l/sec)	Supply	63	57	58	56	56	53	48	40			
[100]	Breakout	67	59	57	48	34	27	18	12	33.8		
400/	Extract	51	44	44	42	42	37	31	21			
40% (84 l/sec)	Supply	56	49	49	47	47	42	36	26			
(3 1 1/ 333)	Breakout	63	54	50	40	26	20	12	12	27.3		
000/	Extract	40	32	30	29	27	24	3	4			
(35 I/ sec) _	Supply	45	37	35	34	32	29	8	9			
	Breakout	55	51	39	34	19	10	8	11	20.4		
The breakout	The breakout dB(A) sound pressure values are given for hemispherical free field propagation at a distance of 3m from the unit											

RESULTS for SAP CALCULATIONS ENERGY LEVEL PERFORMANCE - using rigid ducting only										
EINENGT LEVEL PENFONIVIAINGE - U	sing ngia aaca	2009 Data		2012 Data						
Exhaust Terminal Configuration	Airflow [I/sec]	Specific Fan Power (W/I/sec)	Heat Exchange Efficiency	Airflow [l/sec]	Specific Fan Power (W/I/sec)	Heat Exchange Efficiency				
Kitchen + 1 additional wet room	15	0.75	89%	21	0.56	89%				
Kitchen + 2 additional wet rooms	21	0.56	89%	29	0.47	89%				
Kitchen + 3 additional wet rooms	27	0.46	89%	37	0.50	88%				
Kitchen + 4 additional wet rooms	33	0.46	88%	45	0.56	87%				
Kitchen + 5 additional wet rooms	39	0.49	88%	53	0.66	86%				
Kitchen + 6 additional wet rooms	45									
Kitchen + 7 additional wet rooms	51 0.63 86% 69 0.94 84%									
Figures at minimum flow rate conditions										

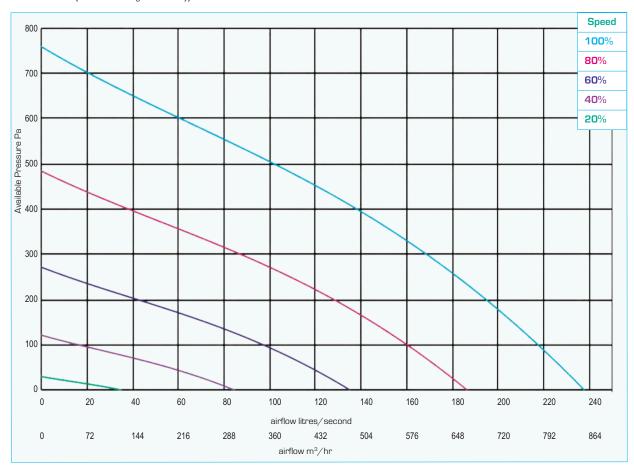
 Tel: +44(0)1494 522333
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 Fax: +44(0)1494 522337
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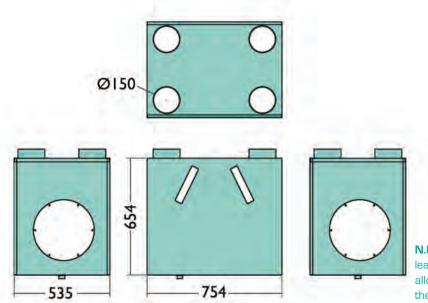
Maxi Plus BY



PERFORMANCE (curves are for guidance only)



DIMENSIONS - mm



N.B a clearance of at least 150 mm should be allowed on each side of the cabinet for access to the interior

Maxi-Plus-BY-AT

vectaire

with acoustic attenuation









Maxi-Plus-BY-AT

- very low noise levels lined with Class "O" fire resistant acoustic foam
- with summer bypass and frost-stat
- efficient, low energy solution to controlling condensation and pollution in residential properties up to 400m²
- up to 89% heat exchange efficiency
- variable choice of low (trickle), boost and purge speed at installation

- for wall, cupboard or loft installation
- universal handing for models without humidistat
- low running costs
- complies with Building Regulations
 Parts L1A 2013 and F 2013
- manufactured in UK to ISO 9001
- accurate commissioning via integral touch screen LCD

Maxi-Plus-BY-AT

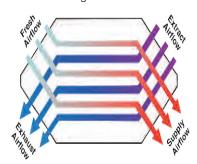
with acoustic attenuation

GENERAL FEATURES

- extremely low noise levels
- Up to 230 litre/sec at 50Pa max 238 litre/sec capacity
- sfp down to 0.46 W/I/s
- summer bypass which allows the two airflows to bypass the heat exchanger automatically when internal and external temperatures are between adjustable setpoints.
- frost-stat proportionally reduces intake motor speed as temperature falls - activated when the outside temperature between +8°C and -3°C.
- run-time and power outage counters
- easy to install and maintain
- easy to access G3 filters
- universal handing for models without humidistat left or right (see separate diagram on page 6 for handing on humidistat
- for fitting vertically into lofts, or cupboards wall fixing bracket supplied
- variable low (trickle), boost and purge options for each motor
- boost speed can be activated by a 230V switched live from:
 - A light switch (if more than one light switch is used, each one must be a double pole switch)
 - Remote humidistat (230V DRH240)
 - Passive infra red (230V PIRFF)
 - Thermostat (230V THM)
 - Remote switch/pull cord 230V
- low running costs
- 5 year warranty 1 year parts and labour, 4 years parts only

TECHNICAL FEATURES

- casing from steel sheet epoxy paint finish
- lined with Class "O: fire resistant acoustic foam
- low energy EC brushless motor with single width, single inlet, direct drive, forward curved impellors
- operates in temperature up to 60°C
- easy to access standard, disposable G3 filters
- counter flow heat exchanger



MODELS AVAILABLE:

- MaxiPlus/ BYATLCD bypass, attenuation, universal, integral LCD
- MaxiPlus/ ATLCDLH bypass, attenuation, left drain, humidistat, integral LCD
- MaxiPlus/ ATLCDRH bypass, attenuation, right drain, humidistat, integral LCD

CONTROL FEATURES - STANDARD

- independent variable speed adjustment for each motor for trickle, boost and purge speeds.
- adjustable boost speed over-run timer from 0 to 90 minutes.
- adjustable boost speed delay from 0 to 5 minutes
- remote purge adjustable over-run timer from 0 to 250 minutes, pre-set to 15 minutes (adjustable at factory).
- adjustable night time boost and purge inhibitor
- integral frost-stat proportionally reduces intake motor speed as temperature falls
- automatic summer bypass

CONTROL FEATURES - FACTORY SET

- change of ductwork handing on humidistat version (trip point can be set at manufacture)
- integral humidistat proportionally increases motor speeds with rising humidity
- O-10V connections can be added for:
 - BMS for remote motor shut-off
 - CO2 detector
 - home automation system
 - external pre-heater
- 3 speed selector switch
- remote purge
- purge speed over-run time
- holiday mode for reduced speeds when property is unoccupied (factory set option) - default setting is 50% of trickle speed
- run-time and power outage counters downloadable via QR code.

COMPLIES WITH

- Part L1A 2013 of Building Regulations for enhanced energy saving capability
- Part F 2013 of Building Regulations for reliable, efficient ventilation
- EU RoHS Directive Compliant.
- Complies with IEC60335-2-80, LVD2006/95/CE and EMC2014/30/UE (European Directive against radio interference and electro-magnetic compatibility
- manufactured in UK to ISO 9001
- CF marked
- SAP PCDB Listed

TYPICAL SPECIFICATION AVAILABLE AT

http://www.vectaire.co.uk/downloads

Vectaire Ltd can supply all accessories for use with these units, including product filters. 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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Maxi-Plus-BY-AT



with acoustic attenuation

TECHNICAL CHARACTERISTICS												
	Model	Airflow I/sec						Total Power - Watts				
	Model	100%	80%	60%	40%	20%	100%	80%	60%	40%	20%	
	Maxi Plus BY AT 238 186 135 84 35 355 184 85 32 8											

Maxi Pl	us BY AT	S	ound Pow	er Levels	, <i>L_w</i> (dB) -	Octave E	Bands Fre	quency H	Z.	Sound Pressure
Curve Ref		63	125	250	500	1k	2k	4k	8k	dBA @ 3m
	Extract	67	63	66	64	64	61	58	54	
100% [238 l/sec]	Supply	72	68	71	69	69	66	63	59	
[200 1/ 000]	Breakout	64	58	59	42	36	32	29	24	34.1
000/	Extract	63	58	61	59	58	55	51	46	
80% [186 l/sec]	Supply	68	63	66	64	63	60	56	51	
. , ,	Breakout	60	53	54	37	30	26	22	16	29.1
	Extract	58	52	53	51	51	48	43	35	
60% [135 l/sec]	Supply	63	57	58	56	56	53	48	40	
(1001/000)	Breakout	60	54	48	36	23	18	11	8	25.0
400/	Extract	51	44	44	42	42	37	31	21	
40% [84 l/sec]	Supply	56	49	49	47	47	42	36	26	
(8 1 1/ 888)	Breakout	56	49	42	29	18	14	8	8	19.8
000/	Extract	40	32	30	29	27	24	3	4	
20% (35 l/sec)	Supply	45	37	35	34	32	29	8	9	
	Breakout	50	47	33	25	13	7	5	7	14.4
The breakout dB(A) sound pressure values are given for hemispherical free field propagation at a distance of 3m from the unit										

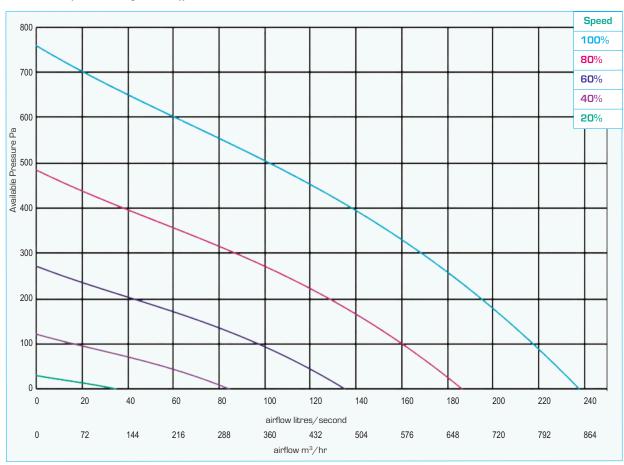
RESULTS for SAP CALCULATIONS ENERGY LEVEL PERFORMANCE - using rigid ducting only											
	onig rigid ddou	2009 Data		2012 Data							
Exhaust Terminal Configuration	Airflow (I/sec)	Fan Power Eychange Finance Fan									
Kitchen + 1 additional wet room	15	0.75	89%	21	0.56	89%					
Kitchen + 2 additional wet rooms	21	0.56	89%	29	0.47	89%					
Kitchen + 3 additional wet rooms	27	0.46	89%	37	0.50	88%					
Kitchen + 4 additional wet rooms	33	0.46	88%	45	0.56	87%					
Kitchen + 5 additional wet rooms	39	0.49	88%	53	0.66	86%					
Kitchen + 6 additional wet rooms	45										
Kitchen + 7 additional wet rooms	51 0.63 86% 69 0.94 84%										
Figures at minimum flow rate conditions											

Maxi-Plus-BY-AT

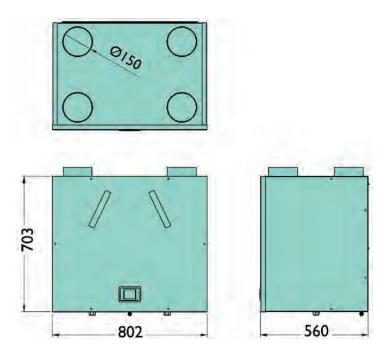
vectaire

with acoustic attenuation

PERFORMANCE (curves are for guidance only)



DIMENSIONS - mm



N.B a clearance of at least 150 mm should be allowed on each side of the cabinet for access to the interior

Horizontal MVHR



EVOs, WHHR100/90DC-B, Mini and Studio

Vectaire's range of horizontal MVHRs include the EVOs, WHHR100/90DC-B, Mini and Studio. All these models provide optimum ventilation by continuously and quietly supplying fresh air. The energy efficient motors automatically remove excess moisture helping to maintain a healthy atmosphere.

They tackle condensation in areas between 60m² and 200m² making them ideal for all residential dwellings, whether houses, apartments or student accommodation with the most powerful models also being suitable for hotels, care homes, multioccupancy establishments and other commercial properties.

These MVHRs meet the latest requirements of the Building Regulations for whole house ventilation systems with heat recovery (System 4).

How They Work

Fax: +44(0)1494 522337

They incorporate two fans - one extracts stale, damp air from the wet rooms in a building, and the other replaces it with warmed fresh air from outside. The two airflows pass through a heat exchanger which recovers the heat from the outgoing air. This is filtered and tempered before being transferred to the incoming fresh air supply and ducted to the living areas. Thus the dwelling is permanently well ventilated and comfortable with good indoor air quality.

Vectaire MVHRs can recover up to 94% of the heat which might otherwise be lost.

The speed of the two fans can be adjusted independently with a choice of variable trickle, boost and purge speeds at installation

Summer Bypass

All models incorporate a summer bypass which allows the two airflows to bypass the heat exchanger automatically when internal and external temperatures are between adjustable setpoints.

Frost Protection

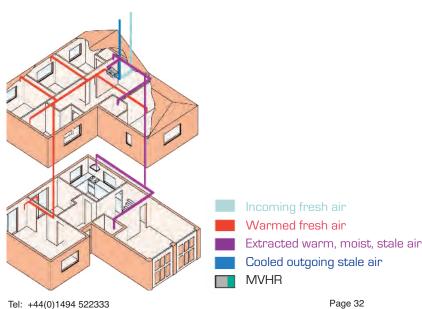
The integral frost-stat proportionally reduces intake motor speed as the temperature falls. This stops the ingress of cold air and consequently the removal of warm air making sure that the ambient remains comfortable. It is activated when the outside temperature is between +8°C and -3°C.

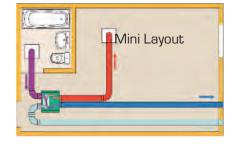
Humidity Control

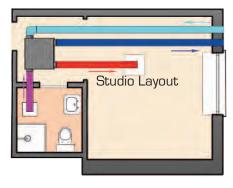
Models with an integral humidity sensor (H) increase the speed of the motors proportionally as the humidity rises. It responds to increases in relative humidity ensuring a comfortable ambience throughout the day and night. The speed of the motors will fall back to normal levels once the excess humidity has been cleared making sure the minimum amount of energy is used.

LCD Control

All models can have a remote commissioning state-of-the-art touch screen LCD controller. It is one of the most technologically advanced available giving both installer and user a range of options to ensure that the MVHR is set to provide quiet and efficient ventilation at all times whilst recovering the heat that would otherwise he lost.







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MVHR LCD Controller





- For use with all Vectaire Heat Recovery Units
- Remote units can be mounted wherever is convenient to the user
- (Option of Integral LCD screen with upright MVHRs Midis and Maxis)

LCD Touch Screen Functions

Display shows:

- motor speeds for both supply and extract fans. They can be set independently and are variable
- > inside and outside temperatures
- > status icons show which functions are currently controlling fan speeds
- > date and time
- > relative humidity level
- > bypass status
- > error and service notifications
- > filter saturation level shows when filters need replacing

LCD Touch Screen Functions for USER

- > screen allows USER to set and control:
 - time
 - date
 - reset the filter saturation level after filters have been changed
 - holiday mode sets system to minimum running, saving energy whilst maintaining air quality
 - operating speed
 - language



Commissioning Options - these options are ONLY for use by the installer, and can only be used with a Commissioning Access Code.

If an incorrect passcode is entered 5 times consecutively the system will automatically lock for one hour. Access permissions are lost every time the option screen is exited.



Setting Time: sets up 12 or 24hr format, DST (daylight saving time) and time zone.



Language Selection



Setting Date: sets date format



Touch Screen Calibration



Holiday Mode: sets system to minimum running when required (factory set to maintain air quality)



Commissioning Screen



Boost Speed Time Delay



Night Time Boost Inhibitor



Boost Speed Over-run Timer



Screen Cleaning: wipe screen safely without deleting settings



Run Time Counter and Filter Saturation



Exit to main screen

EV0200



available Summer 2019





EV0200DC

- with summer bypass and frost-stat
- efficient, low energy solution to controlling condensation and pollution in residential properties up to 120m²
- up to 94% heat exchange efficiency
- variable choice of low (trickle), boost and purge speed at installation
- for ceiling, loft or void installation

- low noise levels
- low running costs
- complies with Building Regulations
 Parts L1A 2013 and F 2013
- manufactured in UK to ISO 9001
- accurate commissioning via remote LCD commissioning unit

EV0200

vectaire

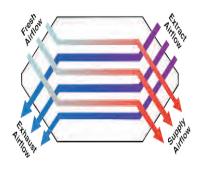
available Summer 2019

GENERAL FEATURES

- up to 74 litre/sec at 50Pa max 81 litre/sec capacity
- sfp down to 0.64 W/l/s
- summer bypass which allows the two airflows to bypass the heat exchanger automatically when internal and external temperatures are between adjustable setpoints.
- frost-stat proportionally reduces intake motor speed as temperature falls - activated when the outside temperature between +8°C and -3°C.
- run-time and power outage counters
- easy to install and maintain for ceiling, loft or void in-line installation
- · variable low (trickle), boost and purge options for each motor
- boost speed can be activated by a 230V switched live from:
 - A light switch (if more than one light switch is used, each one must be a double pole switch)
 - Remote humidistat (230V DRH240)
 - Passive infra red (230V PIRFF)
 - Thermostat (230V THM)
 - Remote switch/pull cord 230V
- very low noise levels
- low running costs
- 5 year warranty 1 year parts and labour, 4 years parts only

TECHNICAL FEATURES

- compact low profile unit only 200mm deep
- spigot size 204mm x 60mm
- · casing from galvanised sheet steel
- · thermo-acoustic lining
- pre-wired for easy electrical connection
- low energy EC brushless motor with single width, single inlet, direct drive, backward curved impellors
- operates in temperature up to 50°C
- easy to access standard, disposable G3 filters
- counter flow heat exchanger
- · all models bottom access only



MODELS AVAILABLE:

- EVO200DC/BABY bottom access, bypass
- EVO200DC/LBYH bottom access, left hand, bypass, humidistat
- EVO200DC/RBYH -bottom access, right hand, bypass, humidistat

CONTROL FEATURES - STANDARD

- independent variable speed adjustment for each motor for trickle, boost and purge speeds.
- adjustable boost speed over-run timer from 0 to 90 minutes.
- adjustable boost speed delay from 0 to 5 minutes
- remote purge adjustable over-run timer from 0 to 250 minutes, pre-set to 15 minutes (adjustable at factory).
- · adjustable night time boost and purge inhibitor
- integral frost-stat proportionally reduces intake motor speed as temperature falls
- · automatic summer bypass

CONTROL FEATURES - FACTORY SET

- change of ductwork handing on humidistat version (trip point can be set at manufacture)
- integral humidistat proportionally increases motor speeds with rising humidity
- 0-10V connections can be added for:
 - BMS for remote motor shut-off
 - CO₂ detector
 - home automation system
 - external pre-heater
- 3 speed selector switch
- remote purge
- purge speed over-run time
- holiday mode for reduced speeds when property is unoccupied (factory set option) - default setting is 50% of trickle speed
- run-time and power outage counters downloadable via QR code.

COMPLIES WITH

- Part L1A 2013 of Building Regulations for enhanced energy saving capability
- Part F 2013 of Building Regulations for reliable, efficient ventilation
- EU RoHS Directive Compliant.
- Complies with IEC60335-2-80, LVD2006/95/CE and EMC2014/30/UE (European Directive against radio interference and electro-magnetic compatibility
- manufactured in UK to ISO 9001
- CE marked

TYPICAL SPECIFICATION AVAILABLE AT

http://www.vectaire.co.uk/downloads

Vectaire Ltd can supply all accessories for use with these units, including product filters. 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



EV0200

available Summer 2019

TECHNICAL CHARACTERISTICS											
Model		Total Power - Watts									
iviouei	100%	80%	60%	40%	20%	100%	80%	60%	40%	20%	
EVO200 81 61 41 23 7 101 52 24 9 2											

EV	0200	S	ound Pow	er Levels	, <i>L_w</i> (dB) -	Octave E	Bands Fre	quency H	Z.	Sound Pressure	
Curve Ref		63	125	250	500	1k	2k	4k	8k	dBA @ 3m	
	Extract	63	61	63	64	61	59	60	50		
100% (81 l/sec)	Supply	68	66	68	69	66	64	65	55		
[0 1 1/ 000]	Breakout	66	59	55	50	41	33	28	16	33.8	
000/	Extract	59	57	58	59	56	53	52	41		
80% (61 l/sec)	Supply	64	62	63	64	61	58	57	46		
[0 1 1/ 000]	Breakout	62	55	50	45	36	27	20	7	29.0	
	Extract	54	53	53	53	50	47	43	32		
60% [41 l/sec]	Supply	59	58	58	58	55	52	48	37		
[41 1/ 000]	Breakout	57	51	45	39	30	21	11	< 5	23.8	
400/	Extract	47	48	45	45	41	37	31	18		
40% [23 l/sec]	Supply	52	53	50	50	46	42	36	23		
[20 // 000]	Breakout	50	46	37	31	21	11	< 5	< 5	16.7	
000/	Extract	34	37	32	31	25	21	11	4		
[/ I/ Sec] _	Supply	39	42	37	36	30	26	16	9		
	Breakout	37	35	24	17	5	< 5	< 5	< 5	<10.0	
The breakout dB(A) sound pressure values are given for hemispherical free field propagation at a distance of 3m from the unit											

RESULTS for SAP CALCULATIONS ENERGY LEVEL PERFORMANCE - using rigid ducting only											
	2009 Data 2012 Data										
Kitchen + 1 additional wet room	15	0.64	94%	21	0.70	93%					
Kitchen + 2 additional wet rooms	21	0.70	93%	29	0.85	93%					
Kitchen + 3 additional wet rooms	27	0.80	93%	37	1.06	92%					
Kitchen + 4 additional wet rooms	33	0.95	92%	45	1.29	91%					
Kitchen + 5 additional wet rooms 39 1.12 92%											
Kitchen + 6 additional wet rooms 45 1.29 91%											
Figures at minimum flow rate conditions - tested by our own laboratory											

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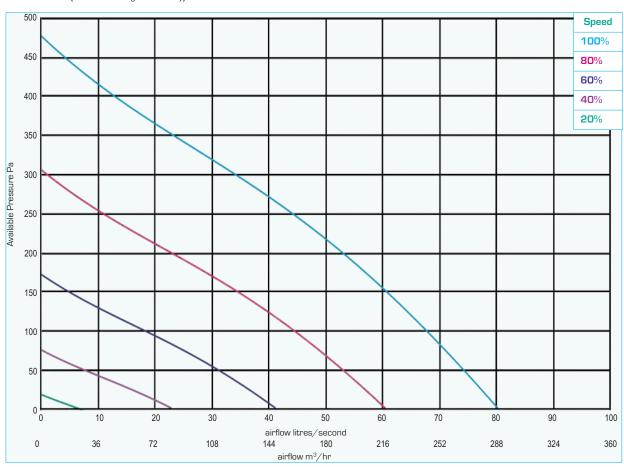


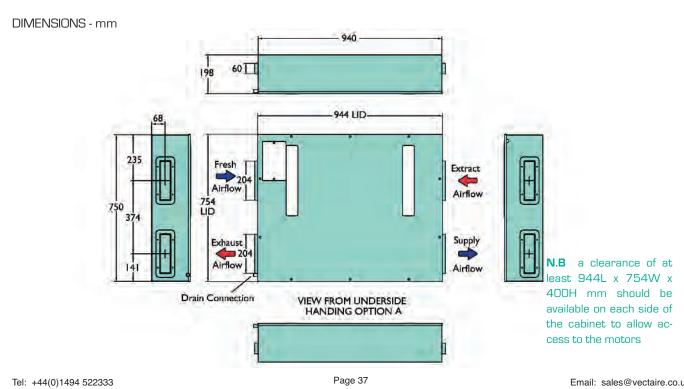
EV0200

Fax: +44(0)1494 522337

available Summer 2019

PERFORMANCE (curves are for guidance only)





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EV0250









EV0250DC

- with summer bypass and frost-stat
- efficient, low energy solution to controlling condensation and pollution in residential properties up to 150m²
- up to 88% heat exchange efficiency
- variable choice of low (trickle), boost and purge speed at installation
- for ceiling, loft or void installation

- low noise levels
- low running costs
- complies with Building Regulations
 Parts L1A 2013 and F 2013
- manufactured in UK to ISO 9001
- accurate commissioning via remote LCD commissioning unit

EV0250

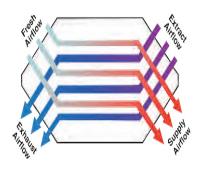


GENERAL FEATURES

- up to 80 litre/sec at 50Pa max 85 litre/sec capacity
- sfp down to 0.70 W/l/s
- summer bypass which allows the two airflows to bypass the heat exchanger automatically when internal and external temperatures are between adjustable setpoints.
- frost-stat proportionally reduces intake motor speed as temperature falls - activated when the outside temperature between +8°C and -3°C.
- run-time and power outage counters
- easy to install and maintain
- for ceiling, loft or void in-line installation
- · variable low (trickle), boost and purge options for each motor
- boost speed can be activated by a 230V switched live from:
 - A light switch (if more than one light switch is used, each one must be a double pole switch)
 - Remote humidistat (230V DRH240)
 - Passive infra red (230V PIRFF)
 - Thermostat (230V THM)
 - Remote switch/pull cord 230V
- very low noise levels
- low running costs
- 5 year warranty 1 year parts and labour, 4 years parts only

TECHNICAL FEATURES

- · compact low profile unit
- spigot size 204mm x 60mm
- · casing from galvanised sheet steel
- · thermo-acoustic lining
- pre-wired for easy electrical connection
- low energy EC brushless motor with single width, single inlet, direct drive, backward curved impellors
- operates in temperature up to 60°C
- easy to access standard, disposable G3 filters
- counter flow heat exchanger
- · all models bottom access only



MODELS AVAILABLE:

- EVO250DC/BABY bottom access, bypass
- EVO250DC/BALBYH bottom access, left hand, bypass, humidistat
- EVO250DC/BARBYH bottom access, right hand, bypass, humidistat

CONTROL FEATURES - STANDARD

- independent variable speed adjustment for each motor for trickle, boost and purge speeds.
- adjustable boost speed over-run timer from 0 to 90 minutes.
- · adjustable boost speed delay from 0 to 5 minutes
- remote purge adjustable over-run timer from 0 to 250 minutes, pre-set to 15 minutes (adjustable at factory).
- · adjustable night time boost and purge inhibitor
- integral frost-stat proportionally reduces intake motor speed as temperature falls
- · automatic summer bypass

CONTROL FEATURES - FACTORY SET

- change of ductwork handing on humidistat version (trip point can be set at manufacture)
- integral humidistat proportionally increases motor speeds with rising humidity
- 0-10V connections can be added for:
 - BMS for remote motor shut-off
 - CO₂ detector
 - home automation system
 - external pre-heater
- 3 speed selector switch
- remote purge
- · purge speed over-run time
- holiday mode for reduced speeds when property is unoccupied (factory set option) - default setting is 50% of trickle speed
- run-time and power outage counters downloadable via QR code.

COMPLIES WITH

- Part L1A 2013 of Building Regulations for enhanced energy saving capability
- Part F 2013 of Building Regulations for reliable, efficient ventilation
- EU RoHS Directive Compliant.
- Complies with IEC60335-2-80, LVD2006/95/CE and EMC2014/30/UE (European Directive against radio interference and electro-magnetic compatibility
- manufactured in UK to ISO 9001
- CE marked
- SAP PCDB Listed

TYPICAL SPECIFICATION AVAILABLE AT

http://www.vectaire.co.uk/downloads

Vectaire Ltd can supply all accessories for use with these units, including product filters. 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





TECHNICAL CHARACTERISTICS											
Model		Airflow I/sec Total Power - Watts									
iviouei	100%	80%	60%	40%	20%	100%	80%	60%	40%	20%	
EV0250	85	67	48	30	12	101	53	23	9	2	

EV	0250	S	Sound Power Levels, $L_{\scriptscriptstyle W}$ (dB) - Octave Bands Frequency Hz.									
Curve Ref		63	125	250	500	1k	2k	4k	8k	dBA @ 3m		
1000/	Extract	63	60	62	64	61	59	60	50			
100% (85 l/sec)	Supply	68	65	67	69	66	64	65	55	1		
[00 1/ 300]	Breakout	66	58	54	50	41	33	28	16	33.4		
000/	Extract	59	57	58	58	56	53	53	42			
80% (67 l/sec)	Supply	64	62	63	63	61	58	58	47			
[07 1/ 000]	Breakout	62	55	50	44	36	27	21	8	28.7		
	Extract	54	51	51	52	49	46	43	31			
60% (48 l/sec)	Supply	59	56	56	57	54	51	48	36			
[40 1/ 000]	Breakout	57	49	43	38	29	20	11	< 5	22.4		
400/	Extract	46	44	43	42	40	36	31	17			
40% (30 l/sec)	Supply	51	49	48	47	45	41	36	22			
[001/000]	Breakout	49	42	35	28	20	10	< 5	< 5	14.1		
000/	Extract	33	33	29	28	24	20	5	3			
20% [12 l/sec]	Supply	38	38	34	33	29	25	10	8			
[12 / 000]	Breakout	36	31	21	14	< 5	< 5	< 5	< 5	< 10.0		
The breakout dB(A) sound pressure values are given for hemispherical free field propagation at a distance of 3m from the unit												

RESULTS for SAP CALCULATIONS ENERGY LEVEL PERFORMANCE - using rigid ducting only												
		2009 Data		2012 Data								
Exhaust Terminal Configuration	Airflow (I/sec)	Specific Fan Power (W/I/sec)	Heat Exchange Efficiency	Airflow (I/sec)	Specific Fan Power (W/I/sec)	Heat Exchange Efficiency						
Kitchen + 1 additional wet room	15	0.70	88%	21	0.75	87%						
Kitchen + 2 additional wet rooms	21	0.72	87%	29	0.89	86%						
Kitchen + 3 additional wet rooms	27	0.82	87%	37	1.00	85%						
Kitchen + 4 additional wet rooms	33	0.99	86%	45	1.37	84%						
Kitchen + 5 additional wet rooms	39	1.01	85%									
Kitchen + 6 additional wet rooms	45	1.35	84%									
Figures at minimum flow rate conditions												

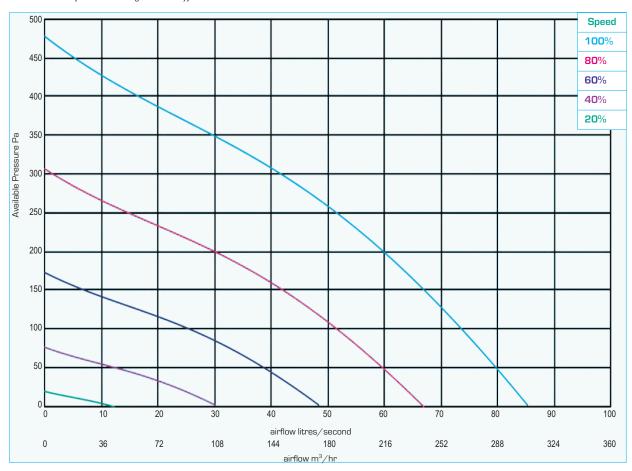
 Tel: +44(0)1494 522333
 Page 40
 Email: sales@vectaire.co.uk

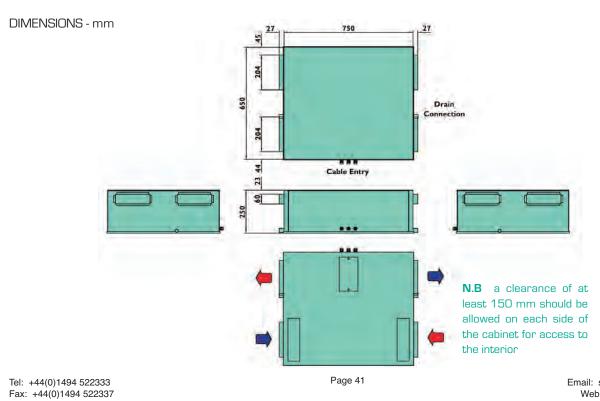
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EV0250



PERFORMANCE (curves are for guidance only)





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EV090







EVO90DC

- with summer bypass and frost-stat
- efficient, low energy solution to controlling condensation and pollution in residential properties up to 135m²
- up to 79% heat exchange efficiency
- variable choice of low (trickle), boost and purge speed at installation
- for ceiling, loft or void installation

- low noise levels
- low running costs
- complies with Building Regulations
 Parts L1A 2013 and F 2013
- manufactured in UK to ISO 9001
- accurate commissioning via remote LCD commissioning unit

EV090

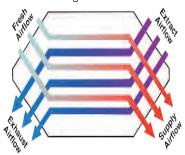


GENERAL FEATURES

- up to 74 litre/sec at 50Pa max 80 litre/sec capacity
- sfp down to 0.71 W/l/s
- summer bypass which allows the two airflows to bypass the heat exchanger automatically when internal and external temperatures are between adjustable setpoints.
- frost-stat proportionally reduces intake motor speed as temperature falls - activated when the outside temperature between +8°C and -3°C.
- run-time and power outage counters
- easy to install and maintain
- for ceiling, loft or void in-line installation
- · variable low (trickle), boost and purge options for each motor
- boost speed can be activated by a 230V switched live from:
 - A light switch (if more than one light switch is used, each one must be a double pole switch)
 - Remote humidistat (230V DRH240)
 - Passive infra red (230V PIRFF)
 - Thermostat (230V THM)
 - Remote switch/pull cord 230V
- very low noise levels
- low running costs
- 5 year warranty 1 year parts and labour, 4 years parts only

TECHNICAL FEATURES

- · compact low profile unit
- casing from galvanised sheet steel
- thermo-acoustic lining
- pre-wired for easy electrical connection
- low energy EC brushless motor with single width, single inlet, direct drive, backward curved impellors
- operates in temperature up to 60°C
- easy to access standard, disposable G3 filters
- counter flow heat exchanger



MODELS AVAILABLE:

- EVO90DC/BALBY bottom access, left drain, bypass
- EVO90DC/BARBY bottom access, right drain, bypass
- EVO90DC/BALBYH -bottom access, left drain, bypass, humidistat
- EVO90DC/BARBYH -bottom access, left drain, bypass, humidistat

CONTROL FEATURES - STANDARD

- independent variable speed adjustment for each motor for trickle, boost and purge speeds.
- adjustable boost speed over-run timer from 0 to 90 minutes.
- · adjustable boost speed delay from 0 to 5 minutes
- remote purge adjustable over-run timer from 0 to 250 minutes, pre-set to 15 minutes (adjustable at factory).
- adjustable night time boost and purge inhibitor
- integral frost-stat proportionally reduces intake motor speed as temperature falls
- automatic summer bypass

CONTROL FEATURES - FACTORY SET

- change of ductwork handing on humidistat version (trip point can be set at manufacture)
- integral humidistat proportionally increases motor speeds with rising humidity
- 0-10V connections can be added for:
 - BMS for remote motor shut-off
 - CO₂ detector
 - home automation system
 - external pre-heater
- 3 speed selector switch
- remote purge
- purge speed over-run time
- holiday mode for reduced speeds when property is unoccupied [factory set option] - default setting is 50% of trickle speed
- run-time and power outage counters downloadable via QR code.

COMPLIES WITH

- Part L1A 2013 of Building Regulations for enhanced energy saving capability
- Part F 2013 of Building Regulations for reliable, efficient ventilation
- EU RoHS Directive Compliant.
- Complies with IEC60335-2-80, LVD2006/95/CE and EMC2014/30/UE (European Directive against radio interference and electro-magnetic compatibility
- manufactured in UK to ISO 9001
- CE marked

TYPICAL SPECIFICATION AVAILABLE AT

http://www.vectaire.co.uk/downloads

Vectaire Ltd can supply all accessories for use with these units, including product filters. 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





TECHNICAL CHARACTERISTICS												
Model	Airflow I/sec						Total Power - Watts					
Iviouei	100%	80%	60%	40%	20%	100%	80%	60%	40%	20%		
EV090	80	61	43	26	10	109	65	38	17	9		

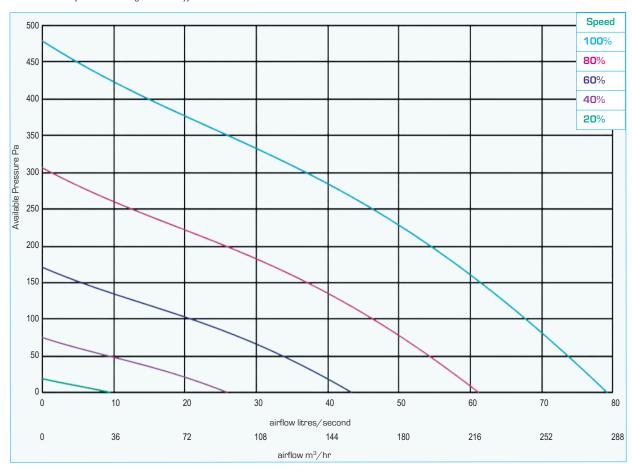
EV	090	S	ound Pow	er Levels	, <i>L_w</i> (dB) -	Octave E	Bands Fre	quency H	Z.	Sound Pressure
Curve Ref		63	125	250	500	1k	2k	4k	8k	dBA @ 3m
4.000/	Extract	64	61	63	64	61	59	60	50	
100% (80 l/sec)	Supply	69	66	68	69	66	64	65	55	
[001/000]	Breakout	67	59	55	50	41	33	28	16	33.9
000/	Extract	59	58	58	59	56	54	52	41	
80% (61 l/sec)	Supply	64	63	63	64	61	59	57	46	
(0 1 1/ 000)	Breakout	62	56	50	45	36	28	20	7	29.2
000/	Extract	54	53	52	52	49	47	43	32	
60% (43 l/sec)	Supply	59	58	57	57	54	52	48	37	
[40 1/ 000]	Breakout	57	51	44	38	29	21	11	< 5	23.2
400/	Extract	47	47	45	44	41	37	32	18	
40% (26 l/sec)	Supply	52	52	50	49	46	42	37	23	
(20 1/ 000)	Breakout	50	45	37	30	21	11	< 5	< 5	16.2
00%	Extract	35	37	32	32	27	22	12	8	
20% (10 l/sec)	Supply	40	42	37	37	32	27	17	13	
[10 1/ 000]	Breakout	38	35	24	18	7	< 5	<5	< 5	< 10.0
The breakout dB(A) sound pressure values are given for hemispherical free field propagation at a distance of 3m from the unit										

RESULTS for SAP CALCULATIONS ENERGY LEVEL PERFORMANCE - using rigid ducting or	RESULTS for SAP CALCULATIONS ENERGY LEVEL PERFORMANCE - using rigid ducting only											
	2012 Data											
Exhaust Terminal Configuration	Airflow [I/sec]	Specific Fan Power (W/I/sec)	Heat Exchange Efficiency									
Kitchen + 1 additional wet room	21	0.71	79 %									
Kitchen + 2 additional wet rooms	29	0.78	79 %									
Kitchen + 3 additional wet rooms	37	0.91	78 %									
Kitchen + 4 additional wet rooms	45	0.99	78 %									
Kitchen + 5 additional wet rooms	53	1.22	78 %									
Kitchen + 6 additional wet rooms	61	1.39	77 %									
Figures at minimum flow rate conditions - tested by our own laboratory												

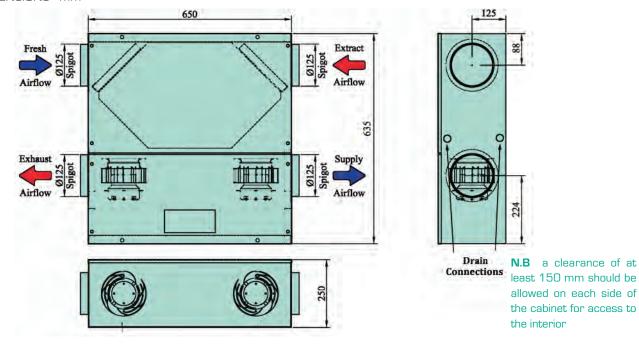
EV090



PERFORMANCE (curves are for guidance only)



DIMENSIONS - mm



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EV0350









EV0350

- with summer bypass and frost-stat
- efficient, low energy solution to controlling condensation and pollution in residential properties up to 200m²
- up to 88% heat exchange efficiency
- variable choice of low (trickle), boost and purge speed at installation
- for ceiling, loft or void installation

- low noise levels
- low running costs
- complies with Building Regulations
 Parts L1A 2013 and F 2013
- manufactured in UK to ISO 9001
- accurate commissioning via remote LCD commissioning unit

EV0350

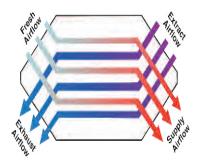


GENERAL FEATURES

- up to 107 litre/sec at 50Pa max 116 litre/sec capacity
- sfp down to 0.67 W/l/s
- summer bypass which allows the two airflows to bypass the heat exchanger automatically when internal and external temperatures are between adjustable setpoints.
- frost-stat proportionally reduces intake motor speed as temperature falls - activated when the outside temperature between +8°C and -3°C..
- run-time and power outage counters
- easy to install and maintain
- for ceiling, loft or void in-line installation
- · variable low (trickle), boost and purge options for each motor
- boost speed can be activated by a 230V switched live from:
 - A light switch (if more than one light switch is used, each one must be a double pole switch)
 - Remote humidistat (230V DRH240)
 - Passive infra red (230V PIRFF)
 - Thermostat (230V THM)
 - Remote switch/pull cord 230V
- very low noise levels
- low running costs
- 5 year warranty 1 year parts and labour, 4 years parts only

TECHNICAL FEATURES

- compact low profile unit
- casing from galvanised sheet steel
- · thermo-acoustic lining
- pre-wired for easy electrical connection
- low energy EC brushless motor with single width, single inlet, direct drive, backward curved impellors
- operates in temperature up to 60°C
- easy to access standard, disposable G3 filters
- counter flow heat exchanger
- · all models bottom access only



MODELS AVAILABLE:

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- EV0350DC/BABY bottom access, bypass
- EV0350DC/BALBYH bottom access, left drain, bypass, humidistat
- EVO350DC/BARBYH-bottom access, right drain, bypass, humidistat

CONTROL FEATURES - STANDARD

- independent variable speed adjustment for each motor for trickle, boost and purge speeds.
- adjustable boost speed over-run timer from 0 to 30 minutes.
- adjustable boost speed delay from 0 to 5 minutes
- remote purge adjustable over-run timer from 0 to 250 minutes, pre-set to 15 minutes (adjustable at factory).
- · adjustable night time boost and purge inhibitor
- integral frost-stat proportionally reduces intake motor speed as temperature falls
- automatic summer bypass

CONTROL FEATURES - FACTORY SET

- change of ductwork handing on humidistat version (trip point can be set at manufacture)
- integral humidistat proportionally increases motor speeds with rising humidity
- 0-10V connections can be added for:
 - BMS for remote motor shut-off
 - CO₂ detector
 - home automation system
 - external pre-heater
- · 3 speed selector switch
- remote purge
- purge speed over-run time
- holiday mode for reduced speeds when property is unoccupied (factory set option) - default setting is 50% of trickle speed
- run-time and power outage counters downloadable via QR code.

COMPLIES WITH

- Part L1A 2013 of Building Regulations for enhanced energy saving capability
- Part F 2013 of Building Regulations for reliable, efficient ventilation
- EU RoHS Directive Compliant.
- Complies with IEC60335-2-80, LVD2006/95/CE and EMC2014/30/UE (European Directive against radio interference and electro-magnetic compatibility
- manufactured in UK to ISO 9001
- CE marked
- SAP PCDB Listed

TYPICAL SPECIFICATION AVAILABLE AT http://www.vectaire.co.uk/downloads

Vectaire Ltd can supply all accessories for use with these units, including product filters. 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





TECHNICAL CHARACTERISTICS												
Model	Airflow I/sec						Total Power - Watts					
Iviouei	100%	80%	60%	40%	20%	100%	80%	60%	40%	20%		
EV0350	116	90	64	38	14	157	83	39	15	4		

EVC)350	S	Sound Pressure							
Curve Ref		63	125	250	500	1k	2k	4k	8k	dBA @ 3m
4.000/	Extract	63	65	64	63	60	57	54	49	
100% [116 l/sec]	Supply	68	70	69	68	65	62	59	54	
[1101/000]	Breakout	66	63	56	49	40	31	22	15	34.6
000/	Extract	59	61	60	58	54	52	48	41	
80% (90 l/sec)	Supply	64	66	65	63	59	57	53	46	
[001/000]	Breakout	62	59	52	44	34	26	16	9	30.3
	Extract	53	55	54	52	48	45	40	32	
60% (64 l/sec)	Supply	58	60	59	57	53	50	45	37	
[0-1/ 000]	Breakout	56	53	46	38	28	19	8	5	24.3
400/	Extract	46	48	46	43	39	35	29	17	
40% (38 l/sec)	Supply	51	53	51	48	44	40	34	22	
[001/000]	Breakout	49	46	38	29	19	9	7	< 5	16.5
000/	Extract	35	36	32	28	24	20	7	5	
20% [14 l/sec]	Supply	40	41	37	33	29	25	12	10	
(11/300)	Breakout	38	34	24	14	8	6	< 5	< 5	<10
The breakout dB(A) sound pressure values are given for hemispherical free field propagation at a distance of 3m from the unit										

RESULTS for SAP CALCULATIONS ENERGY LEVEL PERFORMANCE - using rigid ducting only											
ENERGY ELVELY ETT OFTIVIATOR OF	onig rigid ddou	2009 Data			2012 Data						
Exhaust Terminal Configuration	Airflow (I/sec)	Specific Fan Power (W/I/sec)	Heat Exchange Efficiency	Airflow (I/sec)	Specific Fan Power (W/I/sec)	Heat Exchange Efficiency					
Kitchen + 1 additional wet room	15	0.76	88%	21	0.75	87%					
Kitchen + 2 additional wet rooms	21	0.67	87%	29	0.76	85%					
Kitchen + 3 additional wet rooms	27	0.69	85%	37	0.86	84%					
Kitchen + 4 additional wet rooms	33	0.78	84%	45	1.05	83%					
Kitchen + 5 additional wet rooms	39	0.89	83%	53	1.24	82%					
Kitchen + 6 additional wet rooms	45	1.02	83%								
Kitchen +7 additional wet rooms 51 1.19 82%											
Figures at minimum flow rate conditions											

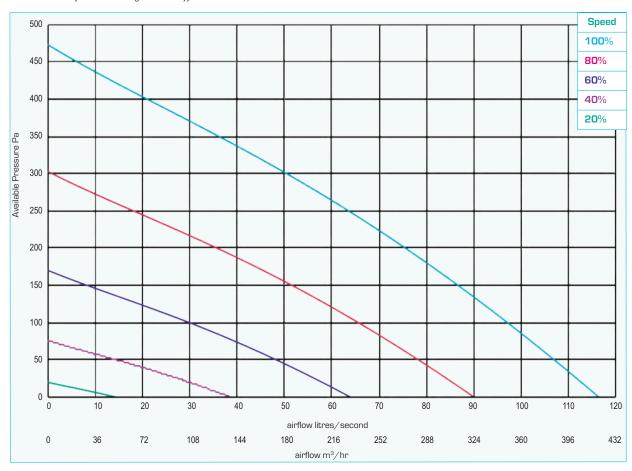
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 Page 48
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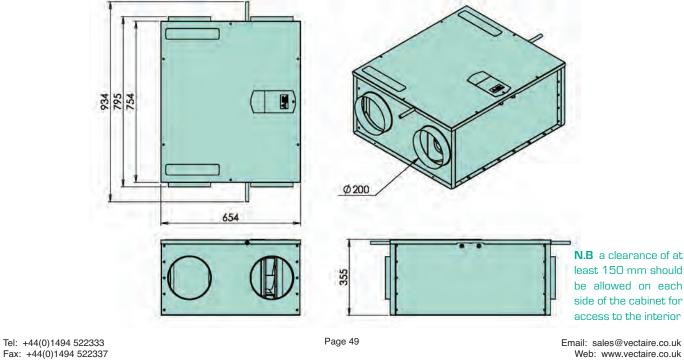
EV0350



PERFORMANCE (curves are for guidance only)



DIMENSIONS - mm



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Studio











Studio

- with summer bypass and frost-stat
- efficient, low energy solution to controlling condensation and pollution in residential properties up to 100m²
- up to 80% heat exchange efficiency
- variable choice of low (trickle), boost and purge speed at installation
- for ceiling, loft or void installation

- low noise levels
- low running costs
- complies with Building Regulations
 Parts L1A 2013 and F 2013
- manufactured in UK to ISO 9001
- accurate commissioning via remote LCD commissioning unit
- * non-bypass models available

Studio



GENERAL FEATURES

- for 1 or 2 bedroom apartments, hotel rooms, student accommodation, extra care facilities, multi-occupancy establishments etc.
- Up to 55 litre/sec at 50Pa max 59 litre/sec capacity
- sfp down to 0.91 W/l/s
- summer bypass which allows the two airflows to bypass the heat exchanger automatically when internal and external temperatures are between adjustable setpoints.
- frost-stat proportionally reduces intake motor speed as temperature falls - activated when the outside temperature between +8°C and -3°C..
- run-time and power outage counters
- easy to install and maintain
- for ceiling, loft or void in-line installation
- variable low (trickle), boost and purge options for each motor
- boost speed can be activated by a 230V switched live from:
 - A light switch (if more than one light switch is used, each one must be a double pole switch)
 - Remote humidistat (230V DRH240)
 - Passive infra red (230V PIRFF)
 - Thermostat (230V THM)
 - Remote switch/pull cord 230V
- very low noise levels
- low running costs
- 5 year warranty 1 year parts and labour, 4 years parts only

TECHNICAL FEATURES

- compact low profile unit with galvanised sheet steel casing
- thermo-acoustic lining
- pre-wired for easy electrical connection
- low energy EC brushless motor with single width, single inlet, direct drive, backward curved impellors
- operates in temperature up to 50°C
- easy to access standard, disposable G3 filters
- · counter flow heat exchanger
- all models bottom access only with right or left drain

CONTROL FEATURES - STANDARD

- independent variable speed adjustment for each motor for trickle, boost and purge speeds.
- adjustable boost speed over-run timer from 0 to 90 minutes.
- adjustable boost speed delay from 0 to 5 minutes
- remote purge adjustable over-run timer from 0 to 250 minutes, pre-set to 15 minutes (adjustable at factory).
- adjustable night time boost and purge inhibitor
- integral frost-stat proportionally reduces intake motor speed as temperature falls
- automatic summer bypass

CONTROL FEATURES - FACTORY SET

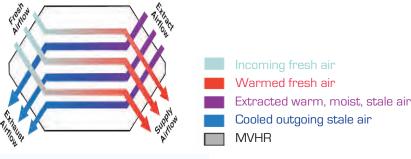
- change of ductwork handing on humidistat version (trip point can be set at manufacture)
- integral humidistat proportionally increases motor speeds with rising humidity
- O-10V connections can be added for:
 - BMS for remote motor shut-off
 - CO₂ detector
 - home automation system
 - external pre-heater
- 3 speed selector switch
- remote purge
- purge speed over-run timer
- holiday mode for reduced speeds when property is unoccupied (factory set option) - default setting is 50% of trickle speed
- run-time and power outage counters downloadable via QR code.

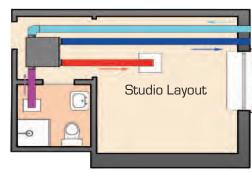
COMPLIES WITH

- Part L1A 2013 of Building Regulations for enhanced energy saving capability
- Part F 2013 of Building Regulations for reliable, efficient ventilation
- EU RoHS Directive Compliant.
- Complies with IEC60335-2-80, LVD2006/95/CE and EMC2014/30/UE (European Directive against radio interference and electro-magnetic compatibility
- manufactured in UK to ISO 9001
- CE marked
- SAP PCDB Listed

TYPICAL SPECIFICATION AVAILABLE AT

http://www.vectaire.co.uk/downloads





MODELS AVAILABLE:

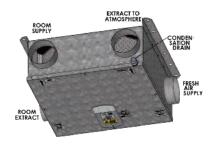
- Studio LB left drain, bypass
- Studio RB right drain, bypass
- Studio LBH left drain, bypass, humidistat
- Studio RBH right drain, bypass, humidistat
- Studio L left drain
- Studio R right drain

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- Studio LH left drain, humidistat
- Studio RH right drain, humidistat

STUDIO - OPTION 1 (RIGHT HAND DRAIN)



STUDIO - OPTION 2 (LEFT HAND DRAIN)



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TECHNICAL CHARACTERISTICS												
Model	Airflow I/sec						Total Power - Watts					
iviouei	100%	80%	60%	40%	20%	100%	80%	60%	40%	20%		
Studio	59	45	30	17	6	100	57	25	10	2		

Studio		S	ound Pow	er Levels	, <i>L_w</i> (dB) -	Octave E	Bands Fre	quency H	Z.	Sound Pressure
Curve Ref		63	125	250	500	1k	2k	4k	8k	dBA @ 3m
1000	Extract	63	65	66	66	62	59	57	49	
100% (59 l/sec)	Supply	68	70	71	71	67	64	62	54	
[00 1/ 000]	Breakout	66	63	58	52	42	33	25	15	36.3
000/	Extract	59	62	61	61	57	54	50	42	
80% (45 l/sec)	Supply	64	67	66	66	62	59	55	47	
(10 1/ 000)	Breakout	62	60	53	47	37	28	18	8	31.8
2004	Extract	53	57	55	55	50	47	41	32	
60% (30 l/sec)	Supply	58	62	60	60	55	52	46	37	
[001/000]	Breakout	56	55	47	41	30	24	9	< 5	26.1
400/	Extract	46	50	47	47	41	37	30	18	
40% [17 l/sec]	Supply	51	55	52	52	46	42	35	23	
[17 1/ 000]	Breakout	49	48	39	33	21	11	< 5	< 5	18.4
000/	Extract	34	38	33	33	27	22	12	3	
20% 6 l/sec)	Supply	39	43	38	38	32	27	17	8	
J. 7 000j	Breakout	37	36	25	19	7	< 5	< 5	< 5	<10.0
The breakout dB(A) sound pressure values are given for hemispherical free field propagation at a distance of 3m from the unit										

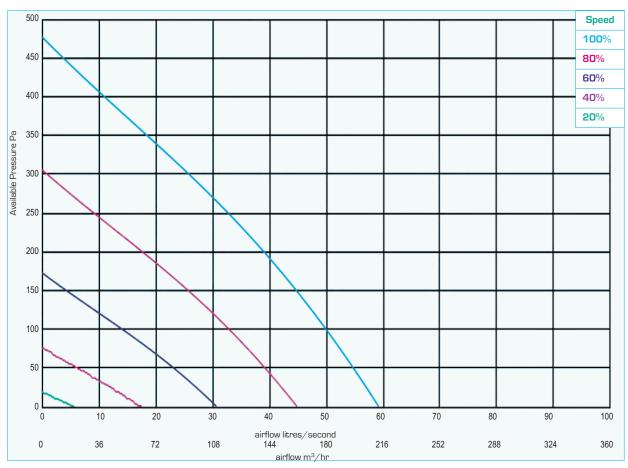
RESULTS for SAP CALCULATIONS ENERGY LEVEL PERFORMANCE - using rigid ducting only											
		2009 Data 2012 Data									
Exhaust Terminal Configuration Airflow [I/sec] Specific Heat Exchange [I/sec] Fan Power Efficiency W/I/sec] Fan Power Efficiency W/I/sec] Specific Heat Exchange [I/sec] Fan Power Efficiency											
Kitchen + 1 additional wet room	15	0.91	80%	21	0.96	79%					
Kitchen + 2 additional wet rooms	21	0.92	79%	29	1.08	78%					
Kitchen + 3 additional wet rooms	27	1.03	78%	37	1.37	77%					
Kitchen + 4 additional wet rooms	33	1.22	77%								
Kitchen + 5 additional wet rooms 39 1.44 77%											
Figures at minimum flow rate conditions -											

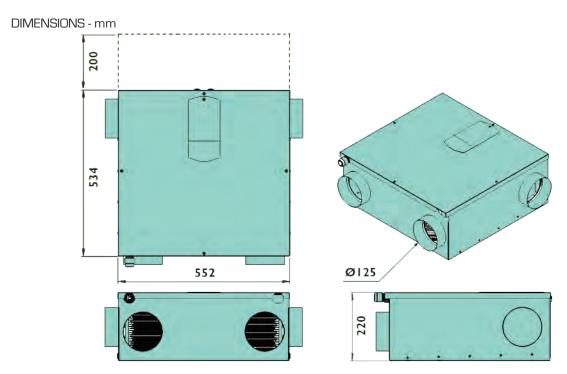
Vectaire Ltd can supply all accessories for use with these units, including product filters, air filter cassettes, silencers, fire dampers, air valves, ducting, outside grilles and wall cowls. Additionally, Vectaire offers a design service to ensure that the unit installed is the best possible to provide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

Studio



PERFORMANCE (curves are for guidance only)





N.B a clearance of at least 200 mm should be allowed at the back of the unit for access to the filters, sufficient lowance is required to remove the lid

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Mini









Mini

- with summer bypass and frost-stat
- efficient, low energy solution to controlling condensation and pollution in residential properties up to 70m²
- up to 83% heat exchange efficiency
- variable choice of low (trickle), boost and purge speed at installation
- for ceiling, loft or void installation

- low noise levels
- low running costs
- complies with Building Regulations
 Parts L1A 2013 and F 2013
- manufactured in UK to ISO 9001
- accurate commissioning via remote LCD commissioning unit
- * non-bypass models available

Mini



GENERAL FEATURES

- for 1 or 2 bedroom apartments, hotel rooms, student accommodation, extra care facilities, multi-occupancy establishments
- Up to 30 litre/sec at 50Pa max 34 litre/sec capacity
- sfp down to 1.11 W/l/s
- summer bypass which allows the two airflows to bypass the heat exchanger automatically when internal and external temperatures are between adjustable setpoints.
- frost-stat proportionally reduces intake motor speed as temperature falls - activated when the outside temperature between +8°C and -3°C..
- run-time and power outage counters
- easy to install and maintain
- for ceiling, loft or void in-line installation
- variable low (trickle), boost and purge options for each motor
- boost speed can be activated by a 230V switched live from:
 - A light switch (if more than one light switch is used, each one must be a double pole switch)
 - Remote humidistat (230V DRH240)
 - Passive infra red (230V PIRFF)
 - Thermostat (230V THM)
 - Remote switch/pull cord 230V
- very low noise levels
- low running costs
- 5 year warranty 1 year parts and labour, 4 years parts only

TECHNICAL FEATURES

- compact low profile unit with galvanised sheet steel casing
- thermo-acoustic lining
- pre-wired for easy electrical connection
- low energy EC brushless motor with single width, single inlet, direct drive, backward curved impellors
- operates in temperature up to 60°C
- easy to access standard, disposable G3 filters
- counter flow heat exchanger
- all models bottom access only with right or left drain

CONTROL FEATURES - STANDARD

- independent variable speed adjustment for each motor for trickle, boost and purge speeds.
- adjustable boost speed over-run timer from 0 to 90 minutes.
- adjustable boost speed delay from 0 to 5 minutes
- remote purge adjustable over-run timer from 0 to 250 minutes, pre-set to 15 minutes (adjustable at factory).
- adjustable night time boost and purge inhibitor
- integral frost-stat proportionally reduces intake motor speed as temperature falls
- automatic summer bypass (except non-bypass models)

CONTROL FEATURES - FACTORY SET

- change of ductwork handing on humidistat version (trip point can be set at manufacture)
- integral humidistat proportionally increases motor speeds with rising humidity
- O-10V connections can be added for:
 - BMS for remote motor shut-off
 - CO2 detector
 - home automation system
 - external pre-heater
- 3 speed selector switch
- remote purge
- purge speed over-run time
- holiday mode for reduced speeds when property is unoccupied (factory set option) - default setting is 50% of trickle speed
- run-time and power outage counters downloadable via QR

COMPLIES WITH

- Part L1A 2013 of Building Regulations for enhanced energy saving capability
- Part F 2013 of Building Regulations for reliable, efficient ventilation
- EU RoHS Directive Compliant.
- Complies with IEC60335-2-80, LVD2006/95/CE and EMC2014/30/UE (European Directive against radio interference and electro-magnetic compatibility
- manufactured in UK to ISO 9001
- CE marked

WHHR MINI DC OPTION 2

(LEFT HAND DRAIN)

FRESH AIR IN

TO BEDROOM

SAP PCDB listed

TYPICAL SPECIFICATION AVAILABLE AT

http://www.vectaire.co.uk/downloads

Incoming fresh air

- Warmed fresh air
- Extracted warm, moist, stale air
- Cooled outgoing stale air
- WHHR Mini DC

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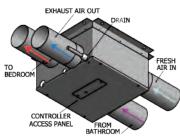
MODELS AVAILABLE:

CONTROLLER ACCESS PANEL

DRATN

- WHHR Mini LB left drain, bvpass
- WHHR Mini RB right drain, bypass
- WHHR Mini LBH left drain, bypass, humidistat,
- WHHR Mini RBH right drain, bypass, humidistat

WHHR MINI DC OPTION 1 (RIGHT HAND DRAIN)



- WHHR Mini L left drain
- WHHR Mini R right drain
- WHHR Mini LH left drain, humidistat
- WHHR Mini RH right drain, humidistat

also available with 100mm spigot





TECHNICAL CHARACTERISTICS											
		Airflow I/sec Total Power - Watts									
Model	100%	100% 80% 60% 40% 20% 100% 80% 60% 40% 20%									
Mini	34 24 15 7 2 83 42 19 7							2			

Mini		S	ound Pow	Z.	Sound Pressure					
Curve Ref		63	125	250	500	1k	2k	4k	8k	dBA @ 3m
4.000/	Extract	63	69	69	69	63	59	56	50	
100% (34 l/sec)	Supply	68	74	74	74	68	64	61	55	
[0+1/ 000]	Breakout	66	67	61	55	43	33	24	16	39.3
000/	Extract	59	65	64	64	58	54	50	43	
80% [24 l/sec]	Supply	64	70	69	69	63	59	55	48	
[2 1 1/ 000]	Breakout	62	63	56	50	38	28	18	9	34.6
000/	Extract	54	59	58	58	51	47	42	33	
60% (15 l/sec)	Supply	59	64	63	63	56	52	47	38	
(101/300)	Breakout	57	57	50	44	31	21	10	<5	28.6
400/	Extract	47	52	50	49	43	39	32	21	
40% (7 l/sec)	Supply	52	57	55	54	48	44	37	26	
(7 17 000)	Breakout	50	50	42	35	23	13	<5	<5	20.7
00%	Extract	36	41	37	36	29	24	15	<5	
20% (2 l/sec)	Supply	41	46	42	41	34	29	20	7	
[= 1/ 300]	Breakout	39	39	29	22	9	5	<5	<5	<10.0
The breakout dB(A) sound pressure values are given for hemispherical free field propagation at a distance of 3m from the unit										

RESULTS for SAP CALCULATIONS ENERGY LEVEL PERFORMANCE - using rigid ducting only										
2009 Data 2012 Data										
Exhaust Terminal Configuration	Airflow [l/sec] Specific Heat Exchange [l/sec] Airflow [l/sec] Specific Heat Exchange [l/sec] [W/l/sec] Efficiency									
Kitchen + 1 additional wet room	15	1.11	83%	21	1.40	82%				
Kitchen + 2 additional wet rooms 21 1.40 82%										
Figures at minimum flow rate conditions										

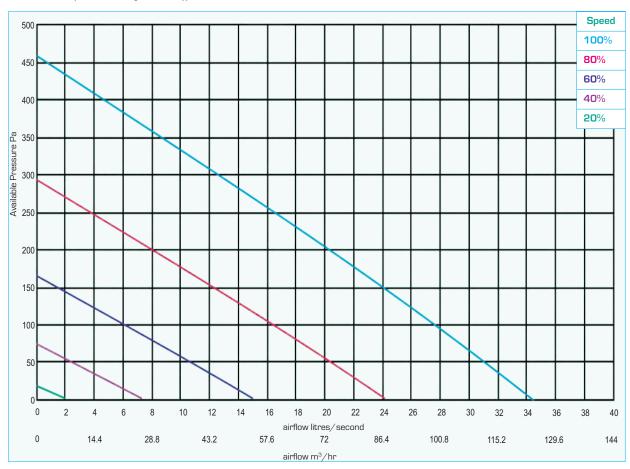
Vectaire Ltd can supply all accessories for use with these units, including product filters, air filter cassettes, silencers, fire dampers, air valves, ducting, outside grilles and wall cowls. Additionally, Vectaire offers a design service to ensure that the unit installed is the best possible to provide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

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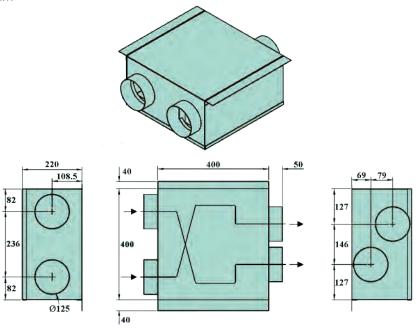
Mini



PERFORMANCE (curves are for guidance only)







N.B a clearance of at least 160 mm should be allowed at the back of the unit for access to the filters, and sufficient allowance is required to remove the lid

WHHR100/90DC-B-BY









WHHR100/90DC-B-BY

- with summer bypass and frost-stat
- efficient, low energy solution to controlling condensation and pollution in residential properties up to 150m²
- up to 92% heat exchange efficiency
- variable choice of low (trickle), boost and purge speed at installation
- for ceiling, loft or void installation

- low noise levels
- low running costs
- complies with Building Regulations
 Parts L1A 2013 and F 2013
- manufactured in UK to ISO 9001
- accurate commissioning via remote LCD commissioning unit
- * non-bypass models available

WHHR100/90DC-B-BY

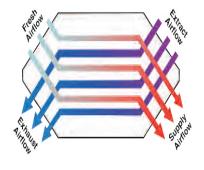


GENERAL FEATURES

- up to 78 litre/sec at 50Pa max 83 litre/sec capacity
- sfp down to 0.63 W/l/s
- summer bypass which allows the two airflows to bypass the heat exchanger automatically when internal and external temperatures are between adjustable setpoints.
- frost-stat proportionally reduces intake motor speed as temperature falls - activated when the outside temperature between +8°C and -3°C..
- run-time and power outage counters
- · easy to install and maintain
- for ceiling, loft or void in-line installation
- · variable low (trickle), boost and purge options for each motor
- boost speed can be activated by a 230V switched live from:
 - A light switch (if more than one light switch is used, each one must be a double pole switch)
 - Remote humidistat (230V DRH240)
 - Passive infra red (230V PIRFF)
 - Thermostat (230V THM)
 - Remote switch/pull cord 230V
- very low noise levels
- low running costs
- 5 year warranty 1 year parts and labour, 4 years parts only

TECHNICAL FEATURES

- · compact unit
- · casing from galvanised sheet steel
- thermo-acoustic lining
- pre-wired for easy electrical connection
- low energy EC brushless motor with single width, single inlet, direct drive, forward curved impellors
- operates in temperature up to 60°C
- easy to access standard, disposable G3 filters
- counter flow heat exchanger



CONTROL FEATURES - STANDARD

- independent variable speed adjustment for each motor for trickle, boost and purge speeds.
- adjustable boost speed over-run timer from 0 to 90 minutes.
- · adjustable boost speed delay from 0 to 5 minutes
- remote purge adjustable over-run timer from 0 to 250 minutes, pre-set to 15 minutes (adjustable at factory).
- adjustable night time boost and purge inhibitor
- integral frost-stat proportionally reduces intake motor speed as temperature falls
- automatic summer bypass (except non-bypass models)

CONTROL FEATURES - FACTORY SET

- change of ductwork handing on humidistat version (trip point can be set at manufacture)
- integral humidistat proportionally increases motor speeds with rising humidity
- 0-10V connections can be added for:
 - BMS for remote motor shut-off
 - CO₂ detector
 - home automation system
 - external pre-heater
- 3 speed selector switch
- remote purge
- purge speed over-run time
- holiday mode for reduced speeds when property is unoccupied (factory set option) - default setting is 50% of trickle speed
- run-time and power outage counters downloadable via QR code.

COMPLIES WITH

- Part L1A 2013 of Building Regulations for enhanced energy saving capability
- Part F 2013 of Building Regulations for reliable, efficient ventilation
- EU RoHS Directive Compliant.
- Complies with IEC60335-2-80, LVD2006/95/CE and EMC2014/30/UE (European Directive against radio interference and electro-magnetic compatibility
- manufactured in UK to ISO 9001
- SAP PCDB Listed
- CE marked

TYPICAL SPECIFICATION AVAILABLE AT

http://www.vectaire.co.uk/downloads

MODELS AVAILABLE:

- WHHR90DCB-TABY top access with bypass
- WHHR90DCB-BABY bottom access with bypass
- WHHR90DCB-TABYH top access, with bypass and humidistat
- WHHR90DCB-BABYH bottom access, with bypass and humidistat
- WHHR10090/DCB top access
- WHHR100/90DCBBA bottom access

Vectaire Ltd can supply all accessories for use with these units, including product filters. 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



WHHR100/90DC-B-BY

TECHNICAL CHARACTERISTICS										
Airflow I/sec Total Power - Watts									Vatts	
iviouei	100%	100% 80% 60% 40% 20% 100% 80% 60% 40% 20%								
WHHR100/90DC-B-BY	83	66	47	29	11	106	54	33	20	12

WHHR100/	90DC-B-BY	S	ound Pow	er Levels	, <i>L_w</i> (dB) -	Octave E	Bands Fre	quency H	Z.	Sound Pressure
Curve Ref		63	125	250	500	1k	2k	4k	8k	dBA @ 3m
	Extract	61	60	53	52	47	41	37	31	
100% (83 l/sec)	Supply	60	59	58	63	64	59	54	51	1
[00 1/ 360]	Breakout	54	53	61	52	49	42	33	25	35.0
000/	Extract	58	55	47	48	41	34	31	26	
80% (66 l/sec)	Supply	57	56	54	61	61	52	48	44	
[001/000]	Breakout	49	50	54	52	52	36	28	22	34.0
	Extract	53	51	41	46	37	28	26	23	
60% (47 l/sec)	Supply	52	52	49	58	57	47	42	37	-
[47 1/ 360]	Breakout	45	47	50	51	48	32	24	21	32.0
100/	Extract	50	48	39	42	34	24	22	22	
40% (29 l/sec)	Supply	49	48	46	54	52	41	37	30	1
[201/300]	Breakout	42	43	47	48	45	30	21	20	29.0
000/	Extract	47	44	35	39	31	19	17	21	
20% [11 l/sec]	Supply	46	46	43	51	47	37	31	23	
[11/300]	Breakout	39	39	45	44	41	28	17	20	25.0
The breakout dB(A) sound pressure values are given for hemispherical free field propagation at a distance of 3m from the unit										

RESULTS for SAP CALCULATIONS ENERGY LEVEL PERFORMANCE - using rigid ducting only										
	2009 Data 2012 Data									
Exhaust Terminal Configuration	Airflow (I/sec)	Specific Fan Power (W/I/sec)	Heat Exchange Efficiency	Airflow (I/sec)	Specific Fan Power [W/I/sec]	Heat Exchange Efficiency				
Kitchen + 1 additional wet room	15	0.63	92%	21	0.76	91%				
Kitchen + 2 additional wet rooms	21	0.72	91%	29	0.90	91%				
Kitchen + 3 additional wet rooms	27	0.84	91%	37	1.05	88%				
Kitchen + 4 additional wet rooms	33	0.94	89%							
Figures at minimum flow rate conditions										

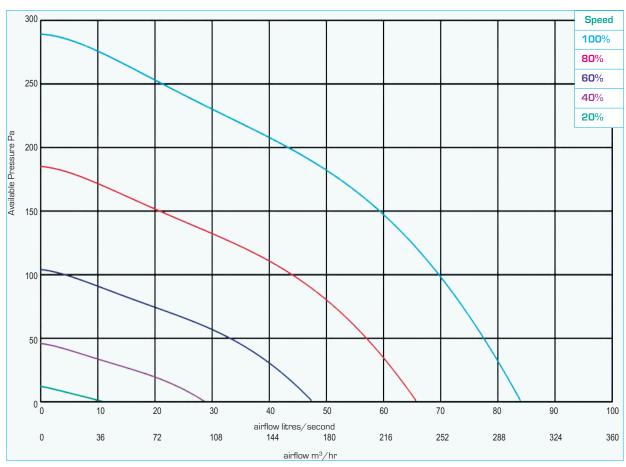
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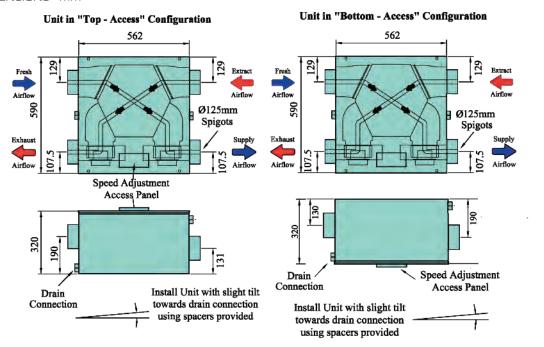


WHHR100/90DC-B-BY

PERFORMANCE (curves are for guidance only)



DIMENSIONS - mm



N.B a clearance of at least 150 mm should be allowed on each side of the cabinet for access to the interior

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WHHR100/90DC









WHHR100/90DC

- efficient, low energy solution to controlling condensation and pollution in residential properties up to 120m²
- up to 79% heat exchange efficiency
- variable choice of low (trickle), boost and purge speed at installation
- for ceiling, loft or void installation

- very low profile only 200mm deep
- top or bottom access
- low noise levels
- low running costs
- complies with Building Regulations
 Parts L1A 2013 and F 2013
- manufactured in UK to ISO 9001

WHHR100/90DC

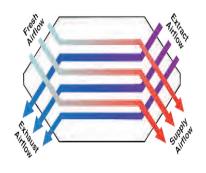
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GENERAL FEATURES

- up to 74 litre/sec at 50Pa max 80 litre/sec capacity
- sfp down to 0.71 w/l/sec
- easy to install and maintain
- for ceiling, loft or void in-line installation
- variable low (trickle), boost and purge options for each motor
- boost speed can be activated by a 230V switched live from:
 - A light switch (if more than one light switch is used, each one must be a double pole switch)
 - Remote humidistat (230V DRH240)
 - Passive infra red (230V PIRFF)
 - Thermostat (230V THM)
 - Remote switch/pull cord 230V
- · very low noise levels
- low running costs
- 5 year warranty 1 year parts and labour, 4 years parts only

TECHNICAL FEATURES

- compact, low profile unit only 200mm deep
- casing from galvanised sheet steel
- thermo-acoustic lining
- pre-wired for easy electrical connection
- low energy EC brushless motor with single width, single inlet, direct drive, backward curved impellors
- operates in temperature up to 60°C
- easy to access standard, disposable G3 filters
- counter flow heat exchanger



CONTROL FEATURES

- variable adjustment trickle and boost speeds set at installation
- boost setting (via switched live)
- frost protection air temperature switches off intake motor when temperatures fall to near freezing

COMPLIES WITH

- Part L1A 2013 of Building Regulations for enhanced energy saving capability
- Part F 2013 of Building Regulations for reliable, efficient ventilation
- · EU RoHS Directive Compliant.
- Complies with IEC60335-2-80, LVD2006/95/CE and EMC2014/30/UE (European Directive against radio interference and electro-magnetic compatibility
- manufactured in UK to ISO 9001
- SAP PCDB Listed
- CE marked

TYPICAL SPECIFICATION AVAILABLE AT

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MODELS AVAILABLE:

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- WHHR100/90DCTAL top access, left drain
- WHHR100/90DCBAL bottom access, left drain
- WHHR100/90DCTAR top access, right drain
- WHHR100/90DCBAR bottom access, right drain

N.B left or right drain MUST be notified at time of ordering

Vectaire Ltd can supply all accessories for use with these units, including product filters. 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





TECHNICAL CHARACTERISTICS										
		A	irflow I/se	ec			Total	Power - V	Vatts	
Model	max boost								60%	40%
WHHR100/90DC	80	63	52	38	28	109	66	46	25	17

WHHR100/	90DC	Sound Power Levels, $L_{\rm W}$ (dB) - Octave Bands Frequency Hz.							Z.	Sound Pressure
Curve Ref		63	125	250	500	1k	2k	4k	8k	dBA @ 3m
	Extract	55	55	58	62	49	44	40	29	
Max Boost (80 l/sec)	Supply	62	62	63	75	63	63	63	54	37
[001/ 000]	Breakout	58	56	59	59	49	44	40	30	
NA Toi-III-	Extract	52	51	55	56	44	38	33	24	
Max Trickle [63 l/sec]	Supply	57	59	60	66	58	59	57	46	32
(00 1/ 000)	Breakout	67	54	56	51	45	40	33	26	
000/	Extract	51	49	53	53	42	35	29	22	
80% (52 l/sec)	Supply	55	57	59	62	55	56	54	43	29
(02 // 000)	Breakout	72	53	54	48	43	37	30	24	
CO0/	Extract	43	41	46	43	33	24	21	21	
60% (38 l/sec)	Supply	45	50	53	52	45	44	38	29	23
(55 % 555)	Breakout	49	46	51	39	33	27	21	22	
400/	Extract	39	37	43	38	28	19	16	21	
40% (28 l/sec)	Supply	40	47	50	48	40	38	30	22	21
(== , 000)	Breakout	39	43	49	34	29	22	17	21	

RESULTS for SAP CALCULATIONS ENERGY LEVEL PERFORMANCE - using rigid ducting only										
		2009 Data 2012 Data								
Exhaust Terminal Configuration	Airflow [I/sec] Specific Fan Power [W/I/sec] Efficiency Airflow [I/sec] Specific Fan Power Exchange [W/I/sec] Efficiency									
Kitchen + 1 additional wet room	15	0.71	79%	21	0.79	79%				
Kitchen + 2 additional wet rooms	21	0.78	79%	29	0.97	79%				
Kitchen + 3 additional wet rooms	27	0.91	78%	37	1.19	78%				
Kitchen + 4 additional wet rooms	33	0.99	78%	45	1.45	77%				
Kitchen + 5 additional wet rooms	39	1.22	78%	53	1.71	77%				
Kitchen + 6 additional wet rooms 45 1.39 77%										
Figures at minimum flow rate conditions										

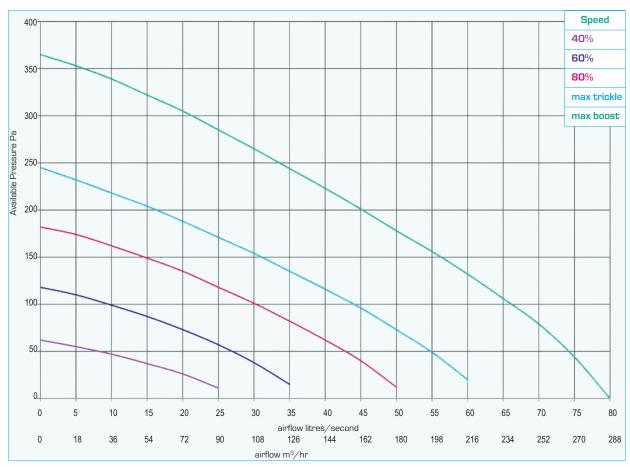
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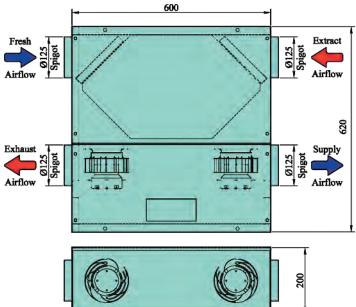


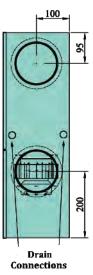
WHHR100/90DC

PERFORMANCE (curves are for guidance only)



DIMENSIONS - mm





N.B a clearance of at least 150 mm should be al-

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lowed on each side of the cabinet for access to the interior

Microbox 125/2DC-B









Microbox 125/2DC

- efficient, low energy solution to controlling condensation and pollution in residential properties up to 185m²
- variable choice of low (trickle), boost and purge speed at installation
- for ceiling, loft or void installation
- compact, ultra low profile unit
- requires only one discharge grille

- cost savings compared to multi-spigot installation
- low noise levels
- low running costs
- available with 204 x 60mm spigot
- humidistat model available
- complies with Building Regulations
 Parts L1A 2013 and F 2013
- manufactured in UK to ISO 9001

Microbox 125/2DC-B

vectaire

GENERAL FEATURES

- up to 97 litre/sec at 50Pa max 108 litre/sec capacity
- sfp down to 0.20 W/l/s
- easy and economical to install and maintain
- for ceiling, loft or void in-line installation
- can be angled horizontally or vertically
- variable low (trickle), boost and purge options purge option factory set
- boost speed can be activated by a 230V switched live from:
 - A light switch (if more than one light switch is used, each one must be a double pole switch)
 - Remote humidistat (230V DRH240)
 - Passive infra red (230V PIRFF)
 - Thermostat (230V THM)
 - Remote switch/pull cord 230V
- very low noise levels
- low running costs
- 5 year warranty 1 year parts and labour, 4 years parts only

TECHNICAL FEATURES

- · compact, low profile unit
- casing from galvanised sheet steel with -acoustic lining
- · thermal overload protection
- pre-wired for easy electrical connection
- service and maintenance panel easily accessible
- low energy EC external rotor motor with sealed for life bearings and dynamically balanced backward curved impellors
- operates in temperature up to 60°C
- complete with mounting bracket and anti-vibration plate
- IPX4 rated

CONTROL FEATURES

- variable adjustment trickle, boost and purge speeds set at installation (purge option factory set)
- boost setting (via switched live)
- integral, adjustable over-run timer adjustable from 0-30 minutes set at installation

COMPLIES WITH

- Part L1A 2013 of Building Regulations for enhanced energy saving capability
- Part F 2013 of Building Regulations for reliable, efficient ventilation
- EU RoHS Directive Compliant.
- Complies with IEC60335-2-80, LVD2006/95/CE and EMC2014/30/UE (European Directive against radio interference and electro-magnetic compatibility
- manufactured in UK to ISO 9001
- CE marked
- SAP PCDB Listed
- Energy Saving Trust Best Practice Compliant

TYPICAL SPECIFICATION AVAILABLE AT

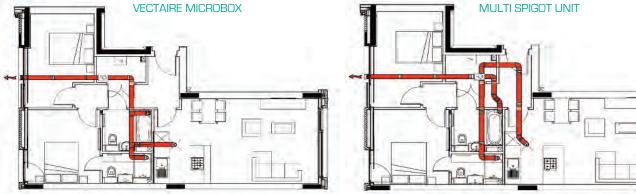
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MBOX125/2DC204 -

with rectangular spigots -204mm x 60mm



DUCT RUN COST SAVINGS



TYPICAL MICROBOX SAVING - £249 PER SYSTEM - less ducting, fewer fire dampers and less coring, easier to install

MODELS AVAILABLE:

- MBOX125/2DC standard model
- MBOX125/2DCH with integral humidistat
- MBOX125/2DC/CP constant pressure model
- MBOX125/2DC204 spigot 204mm x 60mm
- MBOX125/2DC204H spigot 204mm x 60mm and integral humidistat

Vectaire Ltd can supply all accessories for use with these units, including product filters. 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





TECHNICAL CHARACTERISTICS										
		Ai	irflow I/se	ec			Total	Power - V	Vatts	
Model	max boost									40%
Microbox 125/2DC	108	101	80	60	40	46	45	26	12	6

Microbox 125	5/2DC	S	ound Pow	ver Levels	, <i>L_w</i> (dB) -	Octave E	Bands Fre	quency H	Z.	Sound Pressure
Curve Ref		63	125	250	500	1k	2k	4k	8k	dBA @ 3m
	Extract	53	58	59	55	54	52	48	52	
Max Boost [108 l/sec]	Supply	58	63	64	60	59	57	53	57	
[100 / 000]	Breakout	56	56	51	41	34	26	16	18	28.2
NAToi-Id-	Extract	52	57	58	54	53	51	46	50	
Max Trickle (101 l/sec)	Supply	57	62	63	59	58	56	51	55	
[101 / 000]	Breakout	55	55	50	40	33	25	14	16	27.2
000/	Extract	48	53	53	49	48	46	40	42	
80% (80 l/sec)	Supply	53	58	58	54	53	51	45	47	
(00 // 000)	Breakout	51	51	45	35	28	20	8	8	22.5
000/	Extract	45	49	47	43	42	39	32	32	
60% (60 l/sec)	Supply	50	54	52	48	47	44	37	37	
(00 1/ 000)	Breakout	48	47	39	29	22	19	<5	< 5	17.4
400/	Extract	40	42	40	36	35	31	24	12	
40% (40 l/sec)	Supply	45	47	45	41	40	36	29	17	
[-01/360]	Breakout	43	40	32	22	15	5	< 5	<5	10.5
The breakout dB(A) sound pressure values are given for hemispherical free field propagation at a distance of 3m from the unit										

RESULTS for SAP CALCULATIONS ENERGY LEVEL PERFORMANCE - using rigid ducting only								
	2012 Data							
Exhaust Terminal Configuration	Airflow [l/sec]	Specific Fan Power (W/I/sec)						
Kitchen + 1 additional wet room	21	0.20						
Kitchen + 2 additional wet rooms	29	0.26						
Kitchen + 3 additional wet rooms	37	0.34						
Kitchen + 4 additional wet rooms	45	0.44						
Kitchen + 5 additional wet rooms	53	0.55						
Figures at minimum flow rate conditions								

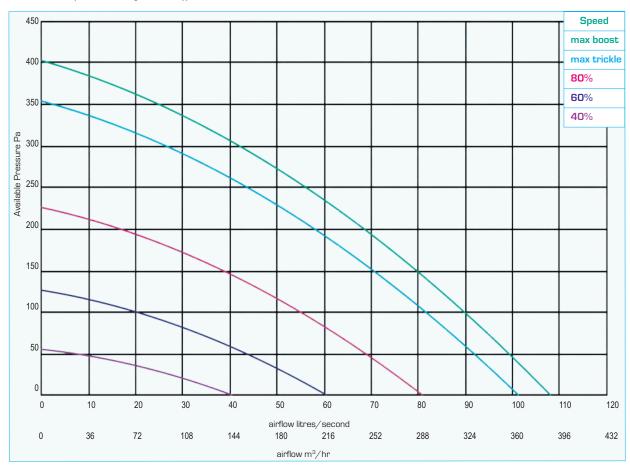
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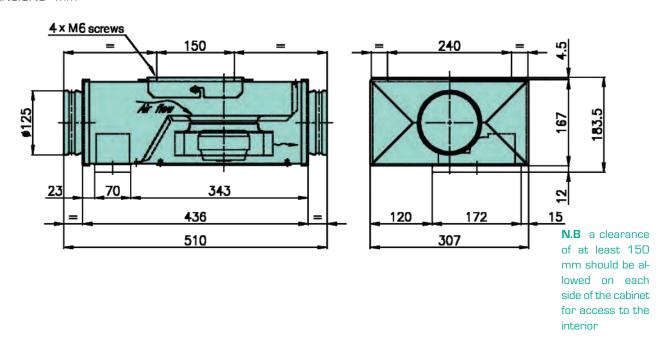


Microbox 125/2DC-B

PERFORMANCE (curves are for guidance only)



DIMENSIONS - mm



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Microbox 200/2DC









Microbox 200/2DC

- efficient, low energy solution to controlling condensation and pollution in residential properties up to 335m²
- variable choice of low (trickle), boost and purge speed at installation
- for ceiling, loft or void installation
- powerful low profile unit
- requires only one discharge grille

- cost savings compared to multi-spigot installation
- low noise levels
- low running costs
- humidistat model available
- complies with Building Regulations
 Parts L1A 2013 and F 2013
- manufactured in UK to ISO 9001

Microbox 200/2DC

vectaire

GENERAL FEATURES

- up to 233 litre/sec at 50Pa max 251 litre/sec capacity
- sfp down to 0.27 W/l/s
- easy and economical to install and maintain
- for ceiling, loft or void in-line installation
- can be angled horizontally or vertically
- variable low (trickle), boost and purge options purge option factory set
- boost speed can be activated by a 230V switched live from:
 - A light switch (if more than one light switch is used, each one must be a double pole switch)
 - Remote humidistat (230V DRH240)
 - Passive infra red (230V PIRFF)
 - Thermostat (230V THM)
 - Remote switch/pull cord 230V
- very low noise levels
- low running costs
- 5 year warranty 1 year parts and labour, 4 years parts only

TECHNICAL FEATURES

- powerful, low profile unit, 232mm deep
- · casing from galvanised sheet steel with acoustic lining
- · thermal overload protection
- pre-wired for easy electrical connection
- service and maintenance panel easily accessible
- low energy EC external rotor motor with sealed for life bearings and dynamically balanced backward curved impellors
- operates in temperature up to 60°C
- complete with mounting bracket and anti-vibration plate
- IPX4 rated

CONTROL FEATURES

- variable adjustment trickle, boost and purge speeds set at installation (purge option factory set)
- boost setting (via switched live)
- integral, adjustable over-run timer adjustable from 0-30 minutes set at installation

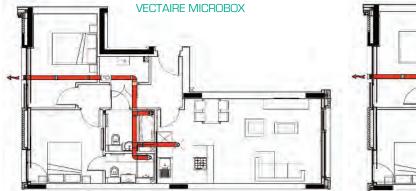
COMPLIES WITH

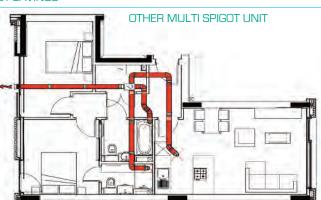
- Part L1A 2013 of Building Regulations for enhanced energy saving capability
- Part F 2013 of Building Regulations for reliable, efficient ventilation
- EU RoHS Directive Compliant.
- Complies with IEC60335-2-80, LVD2006/95/CE
- EMC2014/30/UE (European Directive against radio interference and electro-magnetic compatibility
- manufactured in UK to ISO 9001
- CE marked
- SAP PCDB Listed

TYPICAL SPECIFICATION AVAILABLE AT

http://www.vectaire.co.uk/downloads

DUCT RUN COST SAVINGS





TYPICAL MICROBOX SAVING - £249 PER SYSTEM - less ducting, fewer fire dampers and less coring, easier to install

MODELS AVAILABLE:

- MBOX200/2DC standard model
- MBOX200/2DCH with integral humidistat

also available with 150mm dia spigot or rectangular spigot 220mm x 90mm

Vectaire Ltd can supply all accessories for use with these units, including product filters. 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





TECHNICAL CHARACTERISTICS										
	Airflow I/sec					Total Power - Watts				
Model	max boost	max trickle	80%	60%	40%	max boost	max trickle	80%	60%	40%
Microbox 200/2DC	251	235	188	141	94	84	48	31	21	15

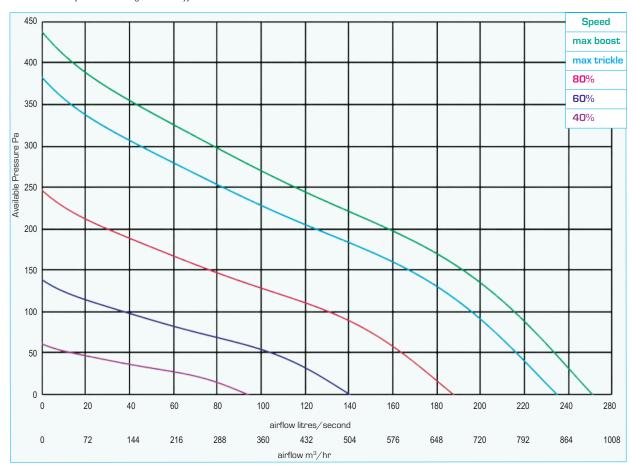
Microbox 200/2DC		Sound Power Levels, $L_{\scriptscriptstyle W}$ (dB) - Octave Bands Frequency Hz.								Sound Pressure	
Curve Ref		63	125	250	500	1k	2k	4k	8k	dBA @ 3m	
Max Boost (251 l/sec)	Extract	58	60	65	63	64	62	58	58		
	Supply	63	65	70	68	69	67	63	63		
	Breakout	61	58	57	49	44	36	26	24	34.4	
Max Trickle (235 l/sec)	Extract	57	59	64	61	62	60	57	56		
	Supply	62	64	69	66	67	65	62	61		
	Breakout	60	57	56	47	42	34	25	22	33.0	
80% (188 l/sec)	Extract	53	55	59	56	57	55	50	48		
	Supply	58	60	64	61	62	60	55	53		
	Breakout	56	53	51	42	37	29	18	14	28.2	
60% [141 l/sec]	Extract	49	50	52	49	50	48	42	39		
	Supply	54	55	57	54	55	53	47	44		
	Breakout	52	48	44	35	30	22	10	5	21.6	
40% [94 l/sec]	Extract	43	42	43	40	41	38	32	25		
	Supply	48	47	48	45	46	43	37	30		
	Breakout	46	40	35	26	21	12	< 5	<5	13.0	
The breakout dB(A) sound pressure values are given for hemispherical free field propagation at a distance of 3m from the unit											

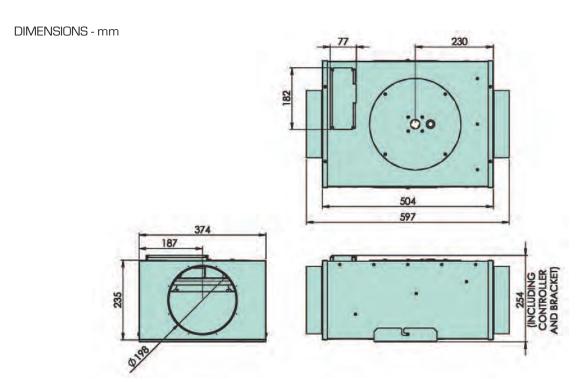
RESULTS for SAP CALCULATIONS ENERGY LEVEL PERFORMANCE - using rigid ducting only							
	2012 Data						
Exhaust Terminal Configuration	Airflow (I/sec)	Specific Fan Power (W/I/sec)					
Kitchen + 1 additional wet room	21	0.28					
Kitchen + 2 additional wet rooms	29	0.27					
Kitchen + 3 additional wet rooms	37	0.28					
Kitchen + 4 additional wet rooms	45	0.36					
Kitchen + 5 additional wet rooms	53	0.42					
Kitchen + 6 additional wet rooms	61	0.52					
Figures at minimum flow rate conditions							

Microbox 200/2DC



PERFORMANCE (curves are for guidance only)





N.B a clearance of at least 150 mm should be allowed on each side of the cabinet for access to the interior

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Elegance - EL1003

- energy efficient EC motor lowest energy consumption of comparable fan in the UK
- provides low level continuous ventilation to control condensation
- 3 speed axial fan
- powerful low profile unit

- wall, ceiling or window (with additional window kit)
- low noise levels
- low running costs
- for any domestic wet room
- complies with Building Regulations
 Parts L1A 2013 and F 2013

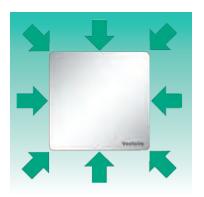
vectaire

GENERAL FEATURES

- exhausts directly to the outside (through wall, or window installation with additional window kit, or with medium length ducting - up to 6m)
- sfp down to 0.09 W/l/s
- · easy and economical to install and maintain
- runs continuously at pre-selected choice of two speeds (fixed at installation)
- Speed 1 operates at 8 I/s (factory set)
- Speed 2 operates at 13.6 l/s
- speed boosted to maximum [26.9 l/s] using integral pull cord or by:
 - remote switch/light switch
 - PIR sensor
 - DRH240 (dynamic remote humidistat)
- anti-vibration gasket
- patented anti-turbulence deflectors ensure very low noise levels and optimum performances
- energy saving ventilation
- extremely low running costs
- low carbon footprint
- 5 year warranty 1 year parts and labour, 4 years parts only

TECHNICAL FEATURES

- shockproof, high quality technopolymer casing
- designed using latest wind tunnel technology and CFD simulations
- EC induction motor with thermal protection
- 43,000 hour life motors with maintenance free and long life ball bearings
- operates in ambient temperatures up to 40°C
- · double insulated no earth required
- IPX4 Splashproof rated can safely be installed in Zones I and II



MODELS AVAILABLE:

- EL1003 3 speed, continuous running, cord or remote
- EL1003DT 3 speed, continuous running with comfort timer (timer does not activate unless fan has been running for 2 minutes to avoid unnecessary night-time operation) and pull-cord
- EL1003HDT with comfort timer, humidistat and pull-cord
- EL1003LV 3 speed, continuous running with pull-cord -LOW VOLT (SELV)
- EL1003DTLV -3 speed, continuous running, with comfort timer, and pull-cord LOW VOLT (SELV)
- EL1003HDTLV 3 speed, continuous running, with comfort timer, humidistat and pull-cord - LOW VOLT (SELV)

N.B timer adjustable from 0-30 mins

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COMPLIES WITH

- Part L1A 2013 of Building Regulations for enhanced energy saving capability
- Part F 2013 of Building Regulations for reliable, efficient ventilation
- EU RoHS Directive Compliant.
- Complies with IEC60335-2-80, LVD2006/95/CE and EMC2014/30/UE (European Directive against radio interference and electro-magnetic compatibility
- CE marked
- SAP PCDB Listed
- Energy Saving Trust Best Practice Compliant

TYPICAL SPECIFICATION AVAILABLE AT http://www.vectaire.co.uk/downloads



Vectaire Ltd can supply all accessories for use with these units, including product filters. 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.

N.B These fans are NOT suitable for use with Gravity Grilles. They should be installed using either Cowls or Fixed Grilles. Only approved accessories should be used:

Wall Plates – as required
Window kits – as required
Wall terminations – all wall terminations
must use the approved wall cowl or high rise kit



TECHNICAL CHARACTERISTICS									
Madal	Airflow I/sec			Power - Watts			dBA (@ 3m in free field)		
Model	Speed 1	Speed 2	max	Speed 1	Speed 2	max	Speed 1	Speed 2	max
EL1003	8	13.6	26.9	0.5	0.8	3.5	15.1	17.3	31.4

RESULTS for SAP CALCULATIONS ENERGY LEVEL PERFORMANCE - using rigid ducting only							
Unit Configuration	Specific Fan Power [W/I/s]	EST Best Practice Performance Compliant	Flow Rate (I/sec)				
In room - kitchen	0.12	Yes	13.0				
In room - wetroom	0.11	Yes	8.0				
Through wall - kitchen	0.09	Yes	13.0				
Through wall - wetroom 0.09 Yes 8.0							
Figures from BRE test results at minimum	n flow rate conditions						

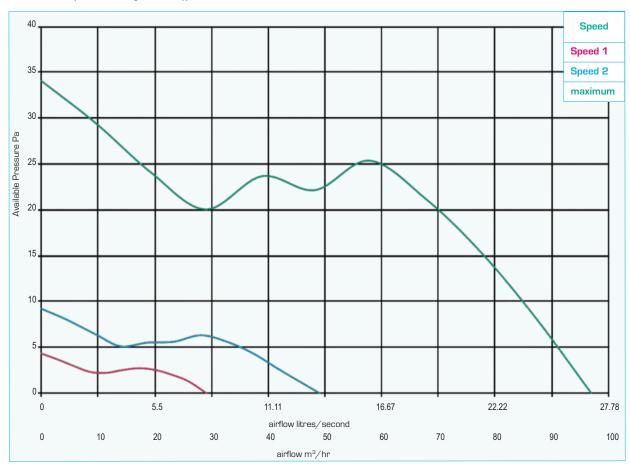
RESULTS for SAP CALCULATIONS ENERGY LEVEL PERFORMANCE - using flexible ducting only							
Unit Configuration	Specific Fan Power [W/I/s]	EST Best Practice Performance Compliant	Flow Rate [I/sec]				
In room - kitchen	0.13	Yes	13.0				
In room - wetroom	0.11	Yes	8.0				
Through wall - kitchen	0.09	Yes	13.0				
Through wall - wetroom 0.09 Yes 8.0							
Figures from BRE test results at minimum	n flow rate conditions						

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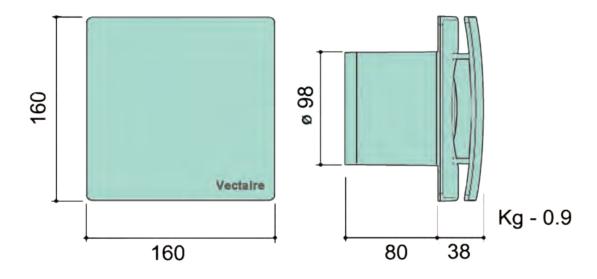
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PERFORMANCE (curves are for guidance only)



DIMENSIONS - mm



Elix - ELX1003









Elix - ELX1003

- energy efficient EC motor
- provides low level continuous ventilation to control condensation
- 3 speed centrifugal fan
- powerful low profile unit

- wall or ceiling
- low noise levels
- low running costs
- for any domestic wet room
- complies with Building Regulations
 Parts L1A 2013 and F 2013

Elix - ELX1003

vectaire

GENERAL FEATURES

- exhausts directly to the outside or through long lengths of ducting (up to 15m)
- sfp down to 0.14 W/l/s
- · easy and economical to install and maintain
- runs continuously at pre-selected choice of two speeds (fixed at installation)
- Speed 1 operates at 8.8 l/s (factory set)
- Speed 2 operates at 13 l/s
- speed boosted to maximum (28 l/s) using integral pull cord or by:
 - remote switch/light switch
 - PIR sensor
 - DRH240 (dynamic remote humidistat)
- anti-vibration gasket
- · easily removable, washable polypropylene filter
- energy saving ventilation
- extremely low running costs
- low carbon footprint
- 5 year warranty 1 year parts and labour, 4 years parts only

TECHNICAL FEATURES

- shockproof, high quality technopolymer casing
- designed using latest wind tunnel technology and CFD simulations
- EC induction motor with thermal protection
- 43,000 hour life motors with maintenance free and long life ball bearings
- operates in ambient temperatures up to 40°C
- double insulated no earth required
- IPX4 Splashproof rated can safely be installed in Zones I and II



MODELS AVAILABLE:

- ELX1003 3 speed, continuous running, cord or remote
- ELX1003DT 3 speed, continuous running with comfort timer (timer does not activate unless fan has been running for 2 minutes to avoid unnecessary night-time operation) and pull-cord
- ELX1003HDT with comfort timer, humidistat and pull-cord
- ELX1003DL with datalogging facility for number of hours run and number of power outages
- ELX1003LV 3 speed, continuous running with pull-cord -LOW VOLT (SELV)
- ELX1003DTLV 3 speed, continuous running, with comfort timer, over-run timer and pull-cord LOW VOLT (SELV)
- ELX1003HDTLV 3 speed, continuous running, with comfort timer, humidistat and pull-cord - LOW VOLT (SELV)

N.B timer adjustable from 0-30 mins

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COMPLIES WITH

- Part L1A 2013 of Building Regulations for enhanced energy saving capability
- Part F 2013 of Building Regulations for reliable, efficient ventilation
- EU RoHS Directive Compliant.
- Complies with IEC60335-2-80, LVD2006/95/CE and EMC2014/30/UE (European Directive against radio interference and electro-magnetic compatibility
- CE marked
- SAP PCDB Listed
- Energy Saving Trust Best Practice Compliant

TYPICAL SPECIFICATION AVAILABLE AT http://www.vectaire.co.uk/downloads



Vectaire Ltd can supply all accessories for use with these units, including product filters. 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.

N.B These fans are NOT suitable for use with Gravity Grilles. They should be installed using either Cowls or Fixed Grilles. Only approved accessories should be used:

Wall Plates - as required

Wall terminations – all wall terminations must use the approved wall cowl or high rise kit





TECHNICAL CHARACTERISTICS									
Airflow I/sec Power - Watts dBA (@ 3m in free field								e field)	
Model	Speed 1	Speed 2	max	Speed 1	Speed 2	max	Speed 1	Speed 2	max
ELX1003 8.8 13 28 1.6 2.4 15 15.5 17.5 35									

RESULTS for SAP CALCULATIONS ENERGY LEVEL PERFORMANCE - using rigid ducting only							
Unit Configuration Specific Fan Power (W/I/s) EST Best Practice Performance Compliant (I/sec)							
In room - kitchen	0.22	Yes	13.0				
In room - wetroom	0.16	Yes	8.0				
Through wall - kitchen	0.17	Yes	13.0				
Through wall - wetroom 0.14 Yes 8.0							
Figures from BRE test results at minimum	n flow rate conditions						

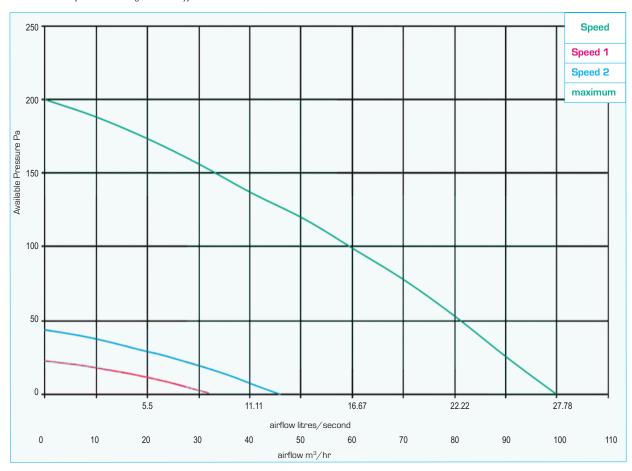
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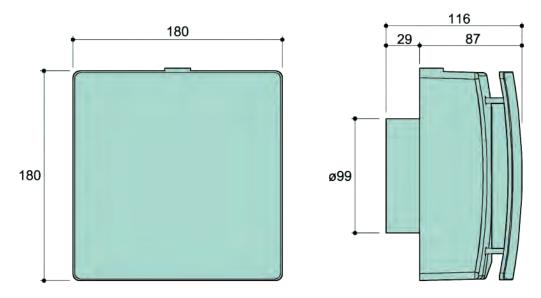
Elix - ELX1003



PERFORMANCE (curves are for guidance only)



DIMENSIONS - mm



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Elprex - ELP2204







Elprex - ELP2204

- energy efficient motor
- provides low level continuous ventilation to control condensation
- 4 speed centrifugal fan
- choice of three speeds at installation
- wall or ceiling
- for any kitchen
- low noise levels
- low running costs
- complies with Building Regulations
 Parts L1A 2013 and F 2013

Elprex - ELP2204

vectaire

GENERAL FEATURES

- exhausts directly to the outside or through long lengths of ducting (up to 15m)
- sfp down to 0.35 W/l/s
- · easy and economical to install and maintain
- runs continuously at trickle speed with choice of 3 boost speeds (fixed at installation)
- Trickle speed 1 operates at 13 l/s (factory set)
- Boost speed 2 operates at 30 I/s
 Boost speed 3 operates at 45 I/s
 Boost speed 4 operates at 60 I/s
- speed boosted to maximum using integral pull cord or by:
 - remote switch/light switch
 - PIR sensor
 - DRH240 (dynamic remote humidistat)
- anti-vibration gasket
- · robust and anti-reverse (removable) backdraught shutter
- energy saving ventilation
- extremely low running costs
- low carbon footprint
- 5 year warranty 1 year parts and labour, 4 years parts only

Surface Mounted Installation

COMPLIES WITH

ventilation

CE marked

saving capability

EU RoHS Directive Compliant.

TYPICAL SPECIFICATION AVAILABLE AT

http://www.vectaire.co.uk/downloads

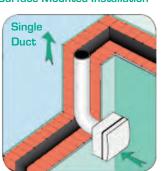
ence and electro-magnetic compatibility

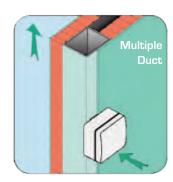
Part L1A 2013 of Building Regulations for enhanced energy

Part F 2013 of Building Regulations for reliable, efficient

Complies with IEC60335-2-80, LVD2006/95/CE and

EMC2014/30/UE (European Directive against radio interfer-

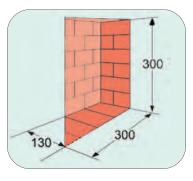




TECHNICAL FEATURES

- shockproof, high quality technopolymer casing
- designed using latest wind tunnel technology and CFD simulations
- motor with thermal protection
- 30,000 hour life motor with maintenance free and long life ball bearings
- operates in ambient temperatures up to 40°C
- double insulated no earth required
- IPX4 Splashproof rated can safely be installed in Zones I and II

Built-in Installation





MODELS AVAILABLE:

- ELP2204 4 speed, continuous running, cord or remote
- ELP2204DT 4 speed, continuous running with comfort timer (timer does not activate unless fan has been running for 2 minutes to avoid unnecessary night-time operation) and pull-cord
- ELP2204HDT with comfort timer, humidistat and pull-cord
- ELP2204DL 4 speed, continuous running with pull-cord and integral data logger
- ELP2204DTDL with comfort timer, pull-cord and integral data logger
- ELP2204HDTDL with comfort timer, humidistat, pull-cord and integral data logger

N.B timer adjustable from 0-30 mins

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Vectaire Ltd can supply all accessories for use with these units, including product filters. 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.

N.B These fans are NOT suitable for use with Gravity Grilles. They should be installed using either Cowls or Fixed Grilles. Only approved accessories should be used:

Wall Plates – as required
Wall terminations – all wall terminations
must use the approved wall cowl or high rise kit

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TECHNICA	TECHNICAL CHARACTERISTICS											
Model	Airflow I/sec Power - Watts dBA (@ 3m in free field)									ld)		
iviodei	Speed 1	Speed 2	Speed 3	Speed 4	Speed 1	Speed 2	Speed 3	Speed 4	Speed 1	Speed 2	Speed 3	Speed 4
ELP2204	ELP2204 13 30 45 60 4.5 12.4 20 28 28 35 41 46								46			

RESULTS for SAP CALCULATIONS						
Specific Fan Power (W/I/s)						
Speed 1	Speed 2	Speed 3	Boost			
0.35 0.41 0.44 0.47						
Results from our own laborator	ry					

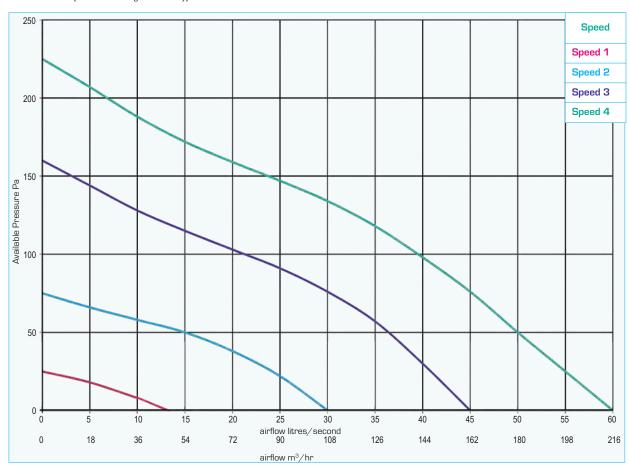
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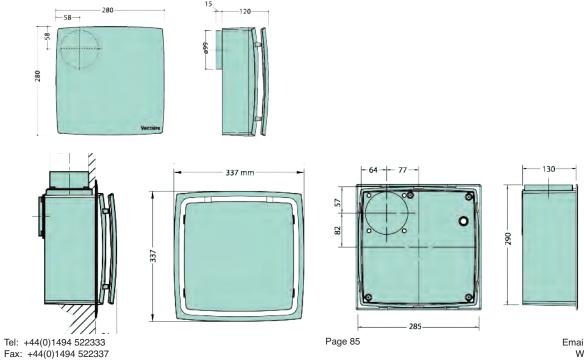




PERFORMANCE (curves are for guidance only)



DIMENSIONS - mm



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E-Smile - ES1003









E-Smile - ES1003

- provides low level continuous ventilation to control condensation
- 3 speed axial fan
- powerful low profile unit
- choice of two low speeds at installation
- wall or ceiling
- low noise levels
- low running costs
- for any domestic wet room
- complies with Building Regulations
 Parts L1A 2013 and F 2013

E-Smile - ES1003

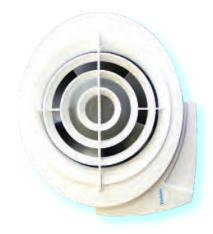
vectaire

GENERAL FEATURES

- exhausts directly to the outside or through medium length ducting - up to 8m)
- sfp down to 0.37 W/l/s
- runs continuously at pre-selected choice of two speeds (fixed at installation)
- Speed 1 operates at 11 l/s (factory set)
- Speed 2 operates at 14 l/s
- speed boosted to maximum (21 l/s) using integral pull cord or by:
 - remote switch/light switch
 - PIR sensor
 - DRH240 (dynamic remote humidistat)
- easy and economical to install and maintain
- ES1003 design allows installation at any angle with only three fixing points
- energy saving ventilation
- · extremely low running costs
- low carbon footprint
- 5 year warranty 1 year parts and labour, 4 years parts only

TECHNICAL FEATURES

- constructed using recyclable and/or reusable materials and components for minimum ecological impact
- shockproof, high quality technopolymer casing
- designed using latest wind tunnel technology and CFD simulations
- advanced profile to increase aerodynamic efficiency
- induction motor with thermal protection
- 40,000 hour life motors with maintenance free and long life ball bearings
- operates in ambient temperatures up to 40°C
- double insulated no earth required
- IPX4 Splashproof rated can safely be installed in Zones I and II



MODELS AVAILABLE:

- ES1003 3 speed, continuous running, cord or remote
- ES1003CF model c/w filter
- ES1003CLV SELV 12v model
- ES100H2C 2 speed, humidity control
- ES100H2CLV 2 speed, humidity control SELV 12v model

COMPLIES WITH

- Part L1A 2013 of Building Regulations for enhanced energy saving capability
- Part F 2013 of Building Regulations for reliable, efficient ventilation
- · EU RoHS Directive Compliant.
- Complies with IEC60335-2-80, LVD2006/95/CE and EMC2014/30/UE (European Directive against radio interference and electro-magnetic compatibility
- CE marked
- SAP PCDB Listed
- Energy Saving Trust Best Practice Compliant

TYPICAL SPECIFICATION AVAILABLE AT

http://www.vectaire.co.uk/downloads



Vectaire Ltd can supply all accessories for use with these units, including product filters. 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.

N.B These fans are NOT suitable for use with Gravity Grilles. They should be installed using either Cowls or Fixed Grilles. Only approved accessories should be used:

Wall Plates – as required
Window kits – as required
Wall terminations – all wall terminations
must use the approved wall cowl or high rise kit





TECHNICAL CHARACTERISTICS								
Airflow I/sec Power - Watts dBA (@ 3m in fre								e field)
Model	Speed 1 Speed 2 max Speed 1 Speed 2 max Speed 1 Speed 2 m						max	
ES1003 11 14 21 3.8 5.3 7.5 16 19 29								

RESULTS for SAP CALCULATIONS ENERGY LEVEL PERFORMANCE - using rigid ducting only							
Unit Configuration	Specific Fan Power [W/I/s]	EST Best Practice Performance Compliant	Flow Rate [I/sec]				
In room - kitchen	0.55	Yes	14.2				
In room - wetroom	0.61	Yes	11.1				
Through wall - kitchen	0.37	Yes	15.5				
Through wall - wetroom 0.45 Yes 9.7							
Figures from BRE test results at minimum	n flow rate conditions						

RESULTS for SAP CALCULATIONS ENERGY LEVEL PERFORMANCE - using flexible ducting only							
Unit Configuration	Specific Fan Power [W/I/s]	EST Best Practice Performance Compliant	Flow Rate (I/sec)				
In room - kitchen	0.57	Yes	13.0				
In room - wetroom	0.61	Yes	10.3				
Through wall - kitchen	0.37	Yes	15.5				
Through wall - wetroom 0.45 Yes 9.7							
Figures from BRE test results at minimum	n flow rate conditions						

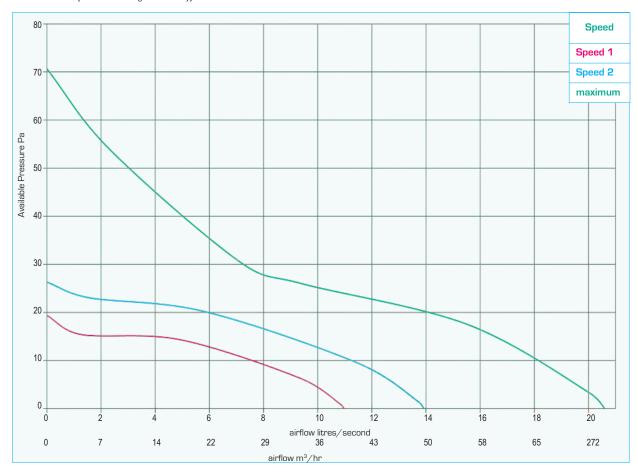
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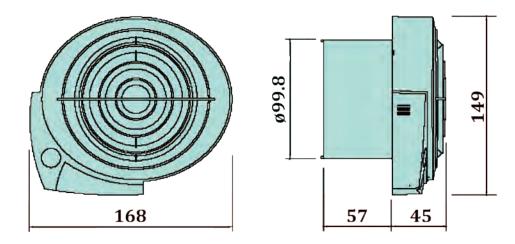




PERFORMANCE (curves are for guidance only)



DIMENSIONS - mm



Elegance - EL100 and EL150







Elegance - EL100 and EL150

- high performance, low carbon axial fans
- control condensation
- standard, timer, humidistat, 2 speed and SELV models
- powerful low profile units

- wall, ceiling or window (with additional window kit)
- low noise levels
- low running costs
- for any domestic wet room
- complies with Building Regulations
 Parts L1A 2013 and F 2013

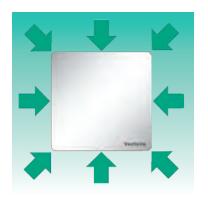
Elegance - EL100 and EL150

GENERAL FEATURES

- exhausts directly to the outside (through wall, or window installation with additional window kit, or with medium length
- easy and economical to install and maintain
- suitable for toilets, shower-rooms, bathrooms, utility rooms and kitchens
- anti-vibration gasket
- all models incorporate cord which can be removed to allow other types of switching.
 - remote switch/light switch
 - PIR sensor
 - DRH240 (dynamic remote humidistat)
- patented anti-turbulence deflectors ensure very low noise levels and optimum performances
- energy saving ventilation
- extremely low running costs
- low carbon footprint
- 5 year warranty 1 year parts and labour, 4 years parts only

TECHNICAL FEATURES

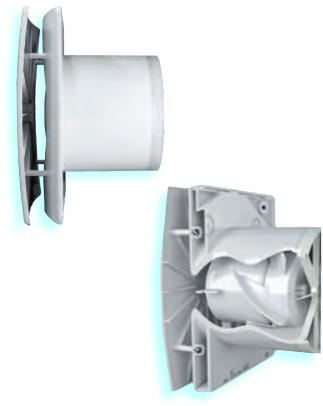
- shockproof, high quality technopolymer casing
- designed using latest wind tunnel technology and CFD
- motor with thermal protection
- 43,000 hour life motors with maintenance free and long life
- operates in ambient temperatures up to 40°C
- double insulated no earth required
- IPX4 Splashproof rated can safely be installed in Zones I and II



COMPLIES WITH

- Part L1A 2013 of Building Regulations for enhanced energy saving capability
- Part F 2013 of Building Regulations for reliable, efficient ventilation
- EU RoHS Directive Compliant.
- Complies with IEC60335-2-80, LVD2006/95/CE and EMC2014/30/UE (European Directive against radio interference and electro-magnetic compatibility
- CE marked

TYPICAL SPECIFICATION AVAILABLE AT http://www.vectaire.co.uk/downloads



Vectaire Ltd can supply all accessories for use with these units, including product filters. 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. N.B These fans are NOT suitable for use with Gravity Grilles. They should be installed using either Cowls or Fixed Grilles.

Wall Plates - as required Window kits - as required Wall terminations - all wall terminations must use the approved wall cowl or high rise kit

Only approved accessories should be used:

MODELS AVAILABLE - 4"/10cm

- EL100 Standard, cord or Remote
- EL100T Cord or Remote, Timer
- EL100HT Cord or Remote, Timer and
- EL100/2AC 2 Speed, Cord or Remote
- EL100LV Cord or Remote, SELV
- EL100TLV Cord or Remote, Timer, SELV

N.B timer adjustable from 3-25 mins

MODELS AVAILABLE - 6"/15cm

EL150 - Standard, cord or Remote

EL150HT - Cord or Remote, Timer and

EL150/2AC - 2 Speed, Cord or Remote

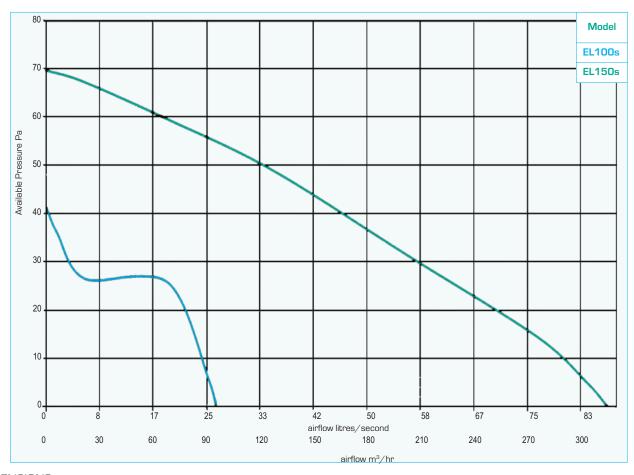
EL150T - Cord or Remote, Timer



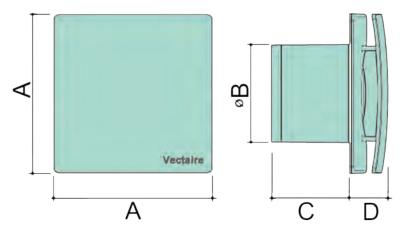
Elegance - EL100 and EL150

TECHNICAL CHARACTERISTICS										
Model						Power	- Watts	dBA (@ 3n	n in free field)	
Iviouei	max	min	max	min	max	min	Speed 1	Speed 2	max	min
EL100s	99	58	25	16	42	21	14	6	31.4	27.4
EL150s	315	182	87	50	71	16	25	13	43.9	29.5

PERFORMANCE (curves are for guidance only)



DIMENSIONS - mm



Model	EL100s	EL150s
А	160	200
øB	98	149
С	80	105
D	38	56
Kg	0.9	1.3

Heatrec 1003







Heatrec 1003

- 3 speed centrifugal fan for any domestic wet room
- energy efficient EC motors
- efficient, low energy solution to controlling condensation and pollution
- provides low level continuous ventilation
- with summer bypass and frost-stat

- up to 75% heat exchange efficiency
- choice of two low (trickle) speeds
- speed can be boosted by user
- low noise levels and running costs
- complies with Building Regulations
 Parts L1A 2013 and F 2013

Heatrec 1003

vectaire

GENERAL FEATURES

- · single room heat recovery unit for new build or refurbishment
- for areas up to 40m²
- up to 75% of heat recovered
- easy to install and maintain
- for installation into walls can be rotated to four positions
- two low (trickle) speeds
 - speed 1: 5 litres/sec
 - speed 2: 7.5 litres/sec
- boost speed (15 litres/sec) triggered by user with integral pull-cord or a remote switch
- tube heat recovery cell available in 400mm, 500mm or 600mm lengths
- heat recovery tube incorporates condensate drainage and weather louvre
- termination kit enables complete installation from inside (easy to install in high rise buildings)
- low noise levels
- low running costs
- 5 year warranty 1 year parts and labour, 4 years parts only

TECHNICAL FEATURES

- efficient and economical
- casing from shockproof, high quality technopolymer
- low energy EC motors
- operates in temperature up to 40°C
- easy to maintain
- filters and heat exchanger removable and washable

SUMMER BYPASS

The Heatrec 1003 has sensors which monitor the air intake and extract. When the outside temperature is comfortable and the inside ambient temperature is lower than 18°C, the air extract motor will be automatically switched off, whilst the air intake motor will continue to operate, ensuring a quick and efficient change of air inside the room. When the outside temperature is higher than 26°C, the air intake motor will be switched off to ensure ventilation without increasing the temperature.

INTEGRAL FROST-STAT

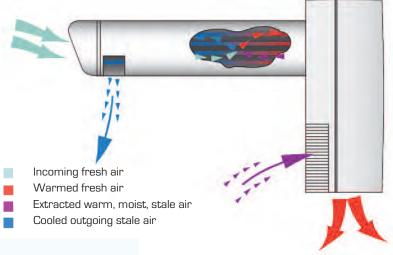
The unit is fitted with an internal thermostat, which automatically stops the air intake if there is a risk of the heat exchanger freezing up (when the outside temperature is too low) and also avoiding the intake of very cold air

COMPLIES WITH

- Part L1A 2013 of Building Regulations for enhanced energy saving capability
- Part F 2013 of Building Regulations for reliable, efficient ventilation
- EU RoHS Directive Compliant.
- Complies with IEC60335-2-80, LVD2006/95/CE and EMC2014/30/UE (European Directive against radio interference and electro-magnetic compatibility
- CE marked

TYPICAL SPECIFICATION AVAILABLE AT http://www.vectaire.co.uk/downloads





MODELS AVAILABLE:

- HREC1003 3 speed, continuous running with pull-cord
- HREC1003T 3 speed, continuous running with timer and pull-cord
- HREC1003HT 3 speed, continuous running fan with timer, humidistat and pull-cord

N.B timer adjustable from 0-30 mins. Humidistat relative humidity adjustable between 40-90%.

- HREC1003LV 3 speed, continuous running with pull-cord SELV
- HREC1003TLV 3 speed, continu ous running with timer and pullcord - SELV
- HREC1003HTLV 3 speed, continuous running fan with timer, humidistat and pull-cord - SELV

Vectaire Ltd can supply all accessories for use with these units, including product filters. 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

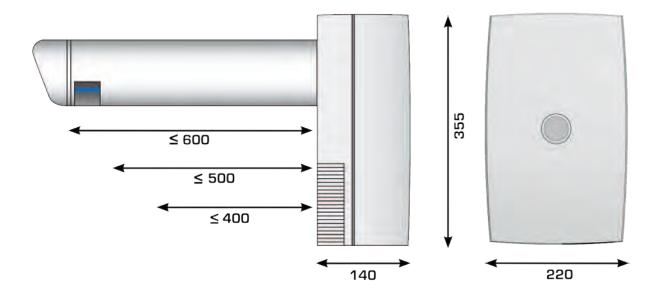




TECHNICAL CHARACTERISTICS									
Model	Д	irflow I/se	!C	Power - Watts dBA (@ 3m in			3m in fre	e field)	
	Speed 1	Speed 2	max	Speed 1	Speed 2	max	Speed 1	Speed 2	max
HREC1003	5	7.5	15	3.7	8.3	28.3	18.4	27.7	39.3

DIMENSIONS - mm

3 models with 100mm dia duct for wall thickness up to:



Plastic Flat Ducting - 3 sizes



VFPD - 110x54mm: VPFDS - 204x60mm: VPFDM - 220x90mm

	Model	Size	Box Qty			Model	Size	Box Qty
FLAT DUCTING -		OIZC	Qty		ADAPTOR ROUN		RTICAL BEND - OFFSET	=
	VPFD	1500mm long	20			VPAVBSA4	100mm spigot	10
	VPFDS	1500mm long	5			VPAVBSA5	125mm spigot	10
	VPFDM	1500mm long	3			VPAVBSA6	150mm spigot	10
FLAT DUCTING	- 2M LENGTH				\sim	VPAVBM4	100mm spigot	6
	VPFD-2M	2000mm long	10			VPAVBM5 VPAVBM6	125mm spigot 150mm spigot	6 6
	VPFDS-2M	2000mm long	5			VIAVBIVIO	roomm opigot	J
\checkmark	VPFDM-2M	2000mm long	2		"T" PIECE			
UNIVERSAL DU	СТ					VPT	110 x 54	20
						VPTS VPTM	204 x 60 220 x 90	10 6
	VPFDS-UD	204 x 60	10					U
					RECTANGULAR			4
CONNECTOR						VFD110/.5 VFD110/3	110 x 54mm x .5m 110 x 54mm x 3m	1 1
	VPC	110 x 54	20			VFD204/.5	204 x 60mm x .5m	1
	VPCS	204 x 60	10			,	204 x 60mm x 3m	1
	VPCM	220 x 90	6			,	220 x 90mm x .5m	1
MOUNTING BRA	ACKET					VFD220/3	220 x 90mm x 3m	1
	VPMB	110 x 54	10		WALL PLATE - I			
	VPMBS	204 x 60	10			VPAWP		10
	VPMBM	220 x 90	10			VPAWPS VPAWPM		10 6
90° HORIZONTA					FIXED GRILLE V		LAR SPIGOT AND FLYS	_
	VPHB VPHBS	110 x 54 204 x 60	20 10					
	VPHBM	220 x 90	6			VPFG	W, B, COT or TC	20
45° HORIZONTA		220 % 00	J			(IOI. L.IOIIIII)	(54mm duct size only)	
	VPHB45	110 x 54	20		GRAVITY GRILL	E WITH RECTAN	IGULAR SPIGOT	
	VPHBS45	204 x 60	10			VPGG	W, B, COT or TC	20
	VPHBM45	220 x 90	6			(for 110mm >	(54mm duct size only)	
ADJUSTABLE H	ORIZONTAL BEN	ND			AIRBRICK ADAF	OTOP.		
	VPAHBS	204 x 60	10		AIRBRICK ADAP	TOR		
	VI ALIDO	L04 X 00	10			VPAB/AD	(VFPD only)	20
90° VERTICAL	BEND					•	, , , , ,	
	VPVB	110 x 54	20		AIRBRICK			
	VPVBS	204 x 60	10					
	VPVBM	220 x 90	6			VPAB	W, B, COT or TC	20
45° VERTICAL	BEND							
	VPVB45	110 x 54	20		ADAPTOR - 20	4мм × 60мм ('s') то 220мм x 90м	M ('M')
	VPVBS45	204 x 60	10					
	VPVBM45	220 x 90	6			VPAS-M	W, B, COT or TC	10
ADAPTOR ROU		4.00	00			IOV ADADTOD		
	VPA VPAS	100mm dia spigot 125mm dia spigot	20 10		DOUBLE AIRBR	ICK ADAPTOR		
	VPAM	150mm dia spigot	6			\/DD 4 D / 4 D 1		4.0
						VPDAB/ ADIV	Megaduct only	10
ADAPTOR ROU	ND TO FLAT - VI		00		DOUBLE AIRBR	ICK		
	VPAVB VPAVBS4	100mm dia spigot 100mm dia spigot	20 10					
	VPAVBS5	125mm dia spigot	10			VPDAB	W, B, COT or TC	20
	VPAVBS6	150mm dia spigot	10					
White = W: Brow	n = B: Beige = CO	T: Terracotta = TC						
				2 00				

Ducting and Ancillaries



	Model	Size/Description	Box Qty			Model	Size	Box Qty
SILENCER					TELESCOPIC DU			
~	VPFDS-SIL.5	204 x 60mm x .5m	1			VTD10-200	4"/10cm	10
	VPFDS-SIL1	204 x 60mm x 1m	1			VTD12-200 VTD15-200	5"/12cm	10
	VPFDS-SIL	204 x 60mm x 1.5m	1		RIGID DUCT - 14		6"/15cm	10
	VPFDM-SIL.5	220 x 90mm x .5m	1		RIGID DUCT - 12		411 / 4.0	4.0
	VPFDM-SIL1	220 x 90mm x 1m	1		0	VRD4-350 VRD5-350	4"/10cm 5"/12cm	10 10
						VRD6-350	6"/15cm	10
TAPE/ADHESIVE					4.4		0 / 10011	10
	PVCDT	PVC Duct Tape	1		RIGID DUCT - 10			
	DDSeal	Duct Seal	1			VRD4-1M	4"/10cm	3
	MAS87	Intumescent Mastic	1			VRD5-1M	5"/12cm	3
INTUMESCENT I	DUCT SLEEVES	FOR VFPD				VRD6-1M	6"/15cm	3
_						RIGID DUCT -		
	VPFD-DS	110 x 54mm	1			VRD4-2M	4"/10cm	3
	VPFDS-DS	204 x 60mm	1			VRD5-2M	5"/12cm	3
	VPFDM-DS	220 x 90mm	1			VRD6-2M	6"/15cm	3
					RIGID DUCT CON	INECTOR		
INTUMESCENT F	-IRE SLEEVE					VRD4/C	4"/10cm	10
	FS204/100	204 x60 x100mm	1		(0)	VRD5/C	5"/12cm	10
	F5204/ 100	204 XOU X TUUITIITI	I			VRD6/C	6"/15cm	10
					RIGID DUCT FIXI	NG BRACKET		
						VRD4/FB	4"/10cm	10
						VRD5/FB	5"/12cm	10
						VRD6/FB	6"/15cm	10
					RIGID DUCT T P	ECE		
INTUMESCENT F	IRE DAMPER					VRD4/T	4"/10cm	10
	FD4INT	4"/10cm	1		\sim	VRD5/T	5"/12cm	10
	FD5INT	5"/12cm	1		Dr.	VRD6/T	6"/15cm	10
	FD6INT	6"/15cm	1		RIGID DUCT Y P	IECE		
FIRE DAMPER -	FUSIBLE LINK					VRD4/Y	4"/10cm	10
	FD4	4"/10cm	1		(-)			
	FD5	5"/12cm	1		RIGID DUCT 90°	REND		
	FD6	6"/15cm	1		KIGID DOOT 90	VRDB90/4	4"/10cm	10
FIRE DAMPER					\sim	VRDB90/5	5"/12cm	10
	VRD4/FD	4"/10cm	1			VRDB90/6	6"/15cm	10
	VRD5/FD	5"/12cm	1		RIGID DUCT 45°	BEND	,	
	VRD6/FD	6"/15cm	1		()	VRDB45/4	4"/10cm	10
DUCT SLEEVE						VRDB45/5	5"/12cm	10
DOOT GLLLVL	VRD4-DS	4"/10cm	1		ROUND GRILLE	MITH ELVECHE	ENI	
	VRD5-DS	5"/12cm	1		ROUND GRILLE	T10	4"/10cm	10
	VRD6-DS	6"/15cm	1		CIRCULAR REDU		4/10011	10
		•			CIRCULAR REDU	RED4/3P	10cm-7.5cm	10
						RED5/4P	12cm-10cm	10
					(((())))	RED6/4P	15cm-10cm	10
DUCT JOINING						RED6/5P	15cm-12cm	10
	DW25N	Duct Wrap-1.2mx13m	1			RED8/6P	20cm-15cm	1
	PVCDT	PVC Duct Tape	1					
	DT75	Aluminium Foil Duct Tape						
	DDSeal	Duct Seal	1					
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Ducting and Ancillaries



			D				
	Model	Size/Description	Box Qty				
ADAPTOR PLAT	ES	·	-				
	PLT/ELX PLT/ES1003 PLT/ES1003S12 PLT/ES1003/SL PLT/EC010 PLT/E00103030	? E-Smile _ E-Smile _ ECO	1 1 1 1 1 1				
WALL VENT KIT	S						
	AWVK10/4 AWVK12/5 AWVK15/6	5"/12cm	10 10 10				
METAL DUCT JO	DINING PIECE						
	DJP4 DJP5 DJP6 DJP8 DJP10 DJP12	4"/10cm 5"/12cm 6"/15cm 8"/20cm 10"/25cm 12"/30cm	1 1 1 1 1				
METAL "Y" SEC	CTION						
	YP4 YP5 YP6 YP8	4"/10cm 5"/12cm 6"/15cm 8"/20cm	1 1 1 1				
METAL "T" SEC	CTION						
60	TP4 TP5 TP6 TP8	4"/10cm 5"/12cm 6"/15cm 8"/20cm	1 1 1 1				
METAL AIR VAL	VES WITH FIRE D	AMPER					
	VAV4+FD VAV5+FD VAV6+FD	4"/10cm 5"/12cm 6"/15cm	1 1 1				
WORM DRIVE CLIPS							
	WDC4 WDC5 WDC6 WDC8 WDC10 WDC12/16	4"/10cm 5"/12cm 6"/15cm 8"/20cm 10"/25cm 12"-16"	1 1 1 1 1				

			Вох				
	Model	Size	Qty				
WALL COWLS	VWC	4"-6"	1				
	VWC4	4"/10cm	1				
(1)	VWC5	5"/12cm	1				
	VWC6	6"/15cm	1				
PLASTIC FIXED G	RILLES						
	FG4	4"/10cm	1				
	FG5	5"/12cm	1				
	FG6	6"/15cm	1				
PLASTIC FIXED G			4				
	FG4F FG5F	4"/10cm 5"/12cm	1				
	FG6F	6"/15cm	1				
PLASTIC GRAVITY		o,	·				
	GG4	4"/10cm	1				
1	GG5	5"/12cm	1				
	GG6	6"/15cm	1				
		White = W: Brown = B:					
		Grilles will be supplied in w	hite				
unless requested	otherwise at t	ime of ordering					
IN WALL ATTENU	ATORS						
A	VIWA4	4"/10cm - with grille	1				
	VIWA4C	4"/10cm - with cowl	1				
	VIWA4QF VIWA5	4"/10cm- with quick fit cowl	1 1				
	VIWA5C	5"/12cm- with grille 5"/12cm - with cowl	1				
	VIWA5QF	5"/12cm- with quick fit cowl	1				
VIVVAGGI 0/ PEGITI WALTQUICKIDGOWI P							
WALL TERMINAT	ION KITS	411.74.0					
	VWTK4	4"/10cm-high rise-wall 350mm duct-internal installation	1				
	VWTK-Gas	4"/10cm only for VWTK4	1				
	VWTK6	6"/15cm - as VWTK4	1				
	VWTC4	4"/10cm-round wall cowl	1				
	VWTC6	for internal installation 6"/15cm - as VWTC4	1				
ROOF TERMINATI		U/ TUCITI- do VVVTU-	'				
ROOF TERMINATI	RTK4	4"/10cm - Kit	1				
	RT4	4"/10cm - Cowl	1				
		,					
PLASTIC AIR VAL	VES						
	VAV4	4"/10cm	1				
11111	VAV5	5"/12cm	1				
40	VAV6	6"/15cm	1				
CONDENSATION TRAPS							
(11)	VCT4D	4"/10cm	1				
Many 1	VCT4P VCT5P	4"/10cm- with overflow 5"/12cm- with overflow	1				
	VCT6P	6"/15cm- with overflow	1				
_		,					

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Ducting and Ancillaries



	Model	Size dia	Size length	Box Qty				
PLASTIC FLEXIBLE DUCTING								
	VFD4/3 VFD4/6 VFD4/10	4"/10cm 4"/10cm 4"/10cm	3m 6m 10m	12 6 2				
	VFD5/3 VFD5/6	5"/12cm 5"/12cm	3m 6m	6 1				
	VFD6/3 VFD6/6 VFD6/10	6"/15cm 6"/15cm 6"/15cm	3m 6m 10m	4 1 1				
	VFD8/3 VFD8/6	8"/20cm 8"/20cm	3m 6m	1 1				
	VFD10/3 VFD10/6	10"/25cm 10"/25cm	3m 6m	1 1				
	VFD315/3 VFD315/6	12"/31.5cm	6m	1				
INSULATED ALU	VFD315/10 MINIUM FLEXIB	,	10m	1				
	VFD4/10INS VFD5/10INS VFD6/10INS VFD8/10INS	5"/12cm 6"/15cm	10m 10m 10m 10m	1 1 1				
ALUMINIUM FLEXIBLE DUCTING								
	VFD4/10AL VFD5/10AL VFD6/10AL	5"/12cm	10m 10m 10m	1 1 1				
ACOUSTIC ALUM	MINIUM FLEXIBI	LE DUCTING						
	VFD4/10AC VFD5/10AC VFD6/10AC VFD8/10AC	5"/12cm 6"/15cm	10m 10m 10m 10m	1 1 1				

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