

residential ventilation low energy environmentally friendly economical with EC motors



August 2020 : Issue 12

Whole House Mechanical Ventilation MVHR, MEV, dMEV





SAP

PCDB Listed

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

- For wall or loft installation in homes and offices
- Midi BY-AT with integral 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 integral 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 integral acoustic attenuation very low noise levels
- Summer bypass and frost-stat
- Up to 89% heat exchange efficiency sfp from 0.46 W/I/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

-EVO220 (MVHR) - Page 42

- For in-line installation in homes and offices
- Summer bypass and frost-stat
- Up to 87% heat exchange efficiency sfp from 0.55 W/I/s
- Up to 70 l/s at 50Pa max 75 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/I/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

- 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















Whole House Mechanical Ventilation MVHR, MEV, dMEV















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

MBOX125/2DC-B (MEV) - Page 62

- 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 66

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

Elegance (dMEV) - Page 70

- 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 74

- 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/I/s
- Best SFP in Class

ELPREX (dMEV) - Page 78

- 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 82

- 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 89

- 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 86

MVHR



Vertical Models - features and overview

		Midi			Maxi			Maxi Plus			
	S*	H*	AT*	S*	H*	AT*	S*	H*	AT*		
Automatic Summer Bypass	1	1	1	1	1	1	1	1	1		
Automatic Frost Protection	1	1	1	1	1	1	1	1	1		
Filters	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	1		
Purge Speed Timer	1	1	1	1	1	1	1	1	1		
Built-in Humidistat	×	1	on request	×	1	on request	×	1	on request		
Universal Handing (non-humidistat models)	1	×	1	1	×	1	1	×	1		
Very low noise levels	1	1	 Image: A start of the start of	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	1	1	1	1	1	1	1	1		
External Condensate	1	1	1	1	1	1	1	1	1		
Size mm W x H x D	600 x 50	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	з	7	42	з	37	42		
Enhanced Acoustic Attenuation	×	×	1	×	×	1	×	×	1		

S* - standard models

H* - models with integral humidistat

AT* - models with integral acoustic attenuation

MVHR



Horizontal Models - features and overview

	EVO	200	EVO	250	EVO	220	EVO	350	Stu	ıdio	Μ	ini	100	IHR /90 CB
	S*	Н*	S*	H*	S*	Н*	S*	Н*	S*	H*	S*	Н*	S*	Η*
Automatic Summer Bypass	1	1	1	1	1	√	1	1	1	1	1	1	1	1
Automatic Frost Protection	1	1	1	1	1	 Image: A start of the start of	1	1	1	1	1	1	1	1
Filters	1	1	1	1	1	√	1	1	1	1	1	1	1	 Image: A start of the start of
Delay Timer	1	1	1	1	1	√	1	1	1	1	1	1	1	~
Purge Speed (factory set)	1	1	1	1	1	 Image: A start of the start of	1	1	1	1	1	1	1	 Image: A start of the start of
Purge Speed Timer	1	1	1	1	1	√	1	1	1	1	1	1	1	1
Built-in Humidistat	×	1	×	1	×	>	×	1	×	1	×	1	×	1
Universal Handing (non-humidistat models)	1	×	1	×	×	×	1	×	×	×	×	×	×	×
Very low noise levels	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Max Airflow at 50Pa - I/s	74	74	80	80	75	75	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+-⁄5	K+-/5	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	-⁄0.55	-⁄0.55	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	-/87	-/87	87/87	87/87	84/84	84/84	83/82	83/82	92/91	92/91
Duct Size - Ømm				-		25				25		25		25
or mm x mm	204	x 60	204	x 60		-		-		-		-		-
Wired Remote Control (optional)	1	√	1	1	1	√	1	1	1	1	1	1	1	 Image: A start of the start of
External Condensate	1	1	1	1	1	 Image: A set of the set of the	1	1	1	1	1	1	1	1
Size mm W x H x D		754 x 98		650 x 50		554 x 20		650 x 50		534 x 20		:400 x 20		562 x 50
Weight kg	28	28	21	21	21	21	30	30	17	17	9	9	22	22

S* - standard models

H* - models with integral humidistat

Whole House Mechanical Ventilation with Heat Recovery

Vertical MVHR 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 $60m^2$ to $400m^2$ 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 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 airflow 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 $+8^{\circ}C$ and $-3^{\circ}C$.

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.

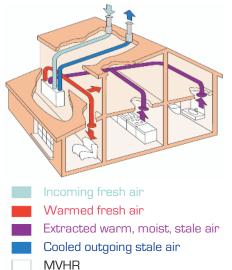
"Super Silent"

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

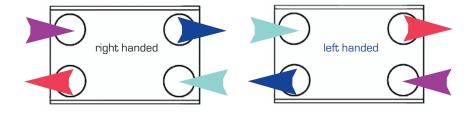
LCD Control

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



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

Page 7









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

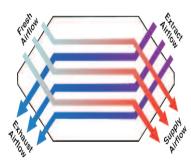


GENERAL FEATURES

- up to 95 litre/sec at 50Pa max 101 litre/sec capacity
- sfp down to 0.50 W/I/s
- summer bypass which allows the airflow 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



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

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
- relay for 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



TECHNICAL CHARACTERISTICS												
Model		Airflow I/sec Total Power - Watts										
	100%	80%	60%	40%	20%	100%	80%	60%	40%	20%		
Midi	101	79	58	36	14	120	69	31	11	2.2		

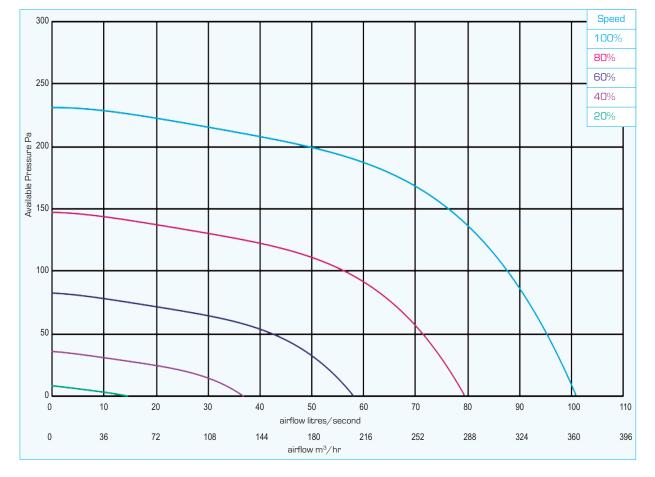
N	1idi	S	Sound Power Levels, L_w (dB) - Octave Bands Frequency Hz.									
Curve Ref		63	125	250	500	1k	2k	4k	8k	dBA @ 3m		
4.000	Extract	65	65	63	63	59	58	57	54			
100% (101 l/sec)	Supply	70	70	68	68	64	63	62	59	1		
	Breakout	56	50	55	49	44	42	37	32	33.9		
000/	Extract	61	61	58	58	54	53	50	46			
80% (79 l/ sec)	Supply	66	66	63	63	59	58	55	51			
(, 0, , 000)	Breakout	52	51	50	46	41	34	32	28	29.9		
CO ⁰ /	Extract	55	55	51	51	47	45	41	36			
60% (58 l/sec)	Supply	60	60	56	56	52	50	46	41			
	Breakout	47	51	46	43	38	27	25	24	26.6		
409/	Extract	47	46	41	41	38	35	29	21			
40% (36 l/sec)	Supply	52	51	46	46	43	40	34	26			
	Breakout	43	52	43	41	35	23	18	21	24.6		
00%	Extract	33	32	24	24	22	18	8	11			
20% (14 l/sec)	Supply	38	37	29	29	27	23	13	15			
Breakout 36 50 37 35 27 12 9 14 19.7												
The breakout dB(A) sound pressure values are given for hemispherical free field propagation at a distance of 3m from the unit												
All the above data has been independently tested to BS EN ISO 3743-1:2010												

RESULTS for SAP CALCULATIONS ENERGY LEVEL PERFORMANCE - using rigid ducting only												
		2009 Data		2012 Data								
Exhaust Terminal Configuration	Airflow [l⁄ 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	0.50	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 condition	S											

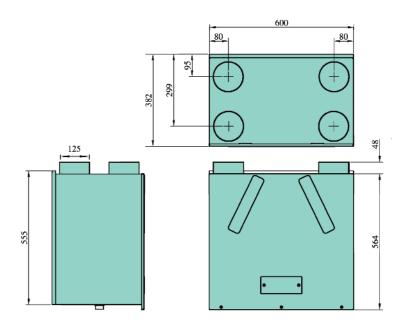
Midi



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

with integral 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 no extra cabinet required
- 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



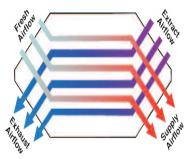
Midi-BY-AT with integral acoustic attenuation

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 airflow 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 no extra cabinet required
- 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 - weight only 29 kgs
- 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
- relay for 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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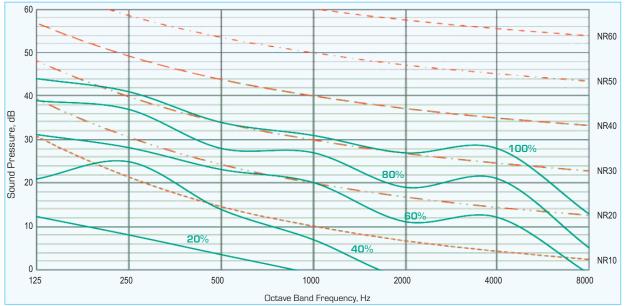


Midi-BY-AT

with integral acoustic attenuation

Midi-E	SY-AT	Sound	Power Le	evels, <i>L_w</i> (dB) - Oct	ave Band	ls Freque	ncy Hz.	Sound Pressure	Noise Rating based on		
Curve Ref		125	250	500	1k	2k	4k	8k	dBA @ 3m	dB @ 1m		
4000	Extract	61	58	48	41	34	26	23				
100% (101 l/sec)	Supply	74	69	60	57	50	44	43				
	Breakout	52	49	42	39	35	36	21	28.3	34		
	Extract	56	53	45	37	29	21	16				
80% (79 l/sec)	Supply	70	65	55	53	44	39	36				
[/0//000]	Breakout	47	45	36	35	27	29	13	23.4	28		
	Extract	49	45	39	29	19	10	7				
60% (58 l/sec)	Supply	62	56	47	45	34	27	21				
	Breakout	39	36	31	28	19	20	7	15.8	21		
40%	Extract	38	38	32	17	8	З	6				
40% (36 l/sec)	Supply	51	47	38	31	22	13	8				
	Breakout	29	33	22	15	6	5	6	9.8	15		
000/	Extract	31	20	10	4	0	2	6				
20% [14 l/sec]	Supply	32	27	13	8	1	2	6				
Breakout 20 16 12 7 1 2 6 <5.0 <10												
The breakout dB(A) sound pressure values are given for hemispherical free field propagation at a distance of 3m from the unit												
All the above	All the above data has been independently tested and verified by BRE to BS EN 13141-7:2010 and BS EN ISO 3741:2010											

BREAKOUT - NR (SPL curves based on breakout dB values at 1m)



RESULTS for SAP CALCULATIONS

ENERGY LEVEL PERFORMANCE - u	sing rigid ducti	ng only						
		2009 Data		2012 Data				
Exhaust Terminal Configuration	Airflow (l⁄ 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	0.50	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 condition	S							

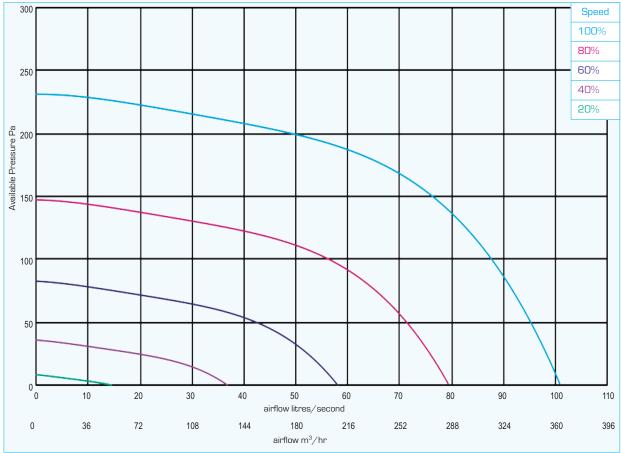


Midi-BY-AT

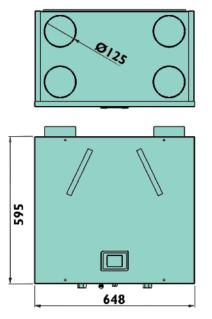
with integral acoustic attenuation

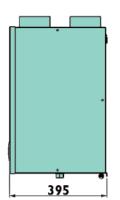
TECHNICAL CHARACTERISTICS											
Model	Airflow I/sec						Total Power - Watts				
IVIOUEI	100%	80%	60%	40%	20%	100%	80%	60%	40%	20%	
Midi-BY-AT	101	79	58	36	14	120	69	31	11	2.2	

$PERFORMANCE \ \ (curves are for guidance only)$



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









- 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

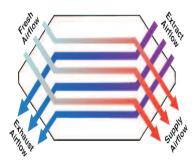
- universal handing for models without humidistat
- very quiet
- low running costs
- complies with Building Regulations Parts L1A 2013 and F 2013
- manufactured in UK to ISO 9001
- accurate commissioning via optional integral LCD or remote LCD commissioning unit



- 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 airflow 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



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.

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
- relay for 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





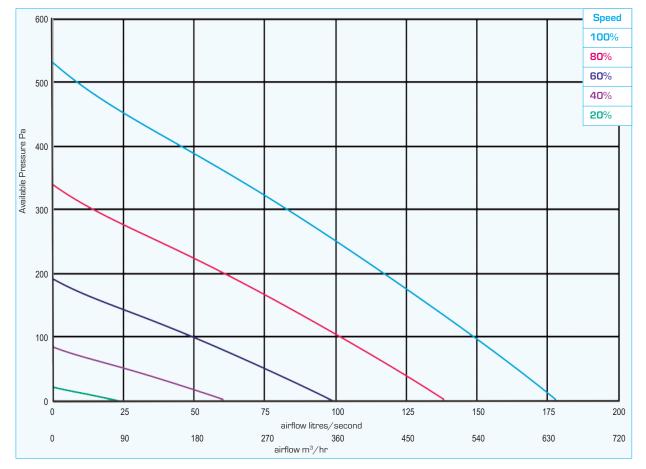
TECHNICAL CHARACTERISTICS												
Model	Airflow I/sec						Total Power - Watts					
IVIOUEI	100%	80%	60%	40%	20%	100%	80%	60%	40%	20%		
Maxi	177	138	99	60	23	176	97	44	17	4		

N	laxi	S	Sound Power Levels, L_w (dB) - Octave Bands Frequency Hz.									
Curve Ref		63	125	250	500	1k	2k	4k	8k	dBA @ 3m		
1000	Extract	52	57	61	58	59	58	55	50			
100% (177 l/sec)	Supply	57	62	66	63	64	63	60	55			
	Breakout	54	55	60	56	43	39	30	21	38.1		
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	52	55	57	54	42	37	28	22	35.9		
008/	Extract	42	47	48	46	47	45	40	32			
60% (99 l/sec)	Supply	47	52	53	51	52	50	45	37			
	Breakout	51	54	54	51	41	35	26	22	33.2		
409/	Extract	36	40	40	37	38	36	30	18			
40% (60 l/sec)	Supply	41	45	45	42	43	41	35	23			
	Breakout	48	51	46	40	29	25	19	22	24.2		
00%	Extract	27	29	27	22	22	19	8	10			
20% 23 l/sec]	Supply	32	34	32	27	27	24	15	17			
	Breakout 43 50 41 35 20 16 11 15 20.2											
The breakout dB(A) sound pressure values are given for hemispherical free field propagation at a distance of 3m from the unit												
All the above data has been independently tested to BS EN ISO 3743-1:2010												

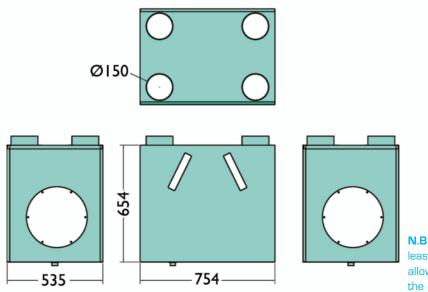
RESULTS for SAP CALCULATIONS ENERGY LEVEL PERFORMANCE - using rigid ducting only												
		2009 Data		2012 Data								
Exhaust Terminal Configuration	Airflow (l⁄ sec)	Specific Fan Power (W/I/sec)	Heat Exchange Efficiency	Airflow (l⁄sec)	Specific Fan Power (W/I/sec)	Heat Exchange Efficiency						
Kitchen + 1 additional wet room	15	0.43	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 condition	S											

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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



with integral 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 no extra cabinet required
- 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



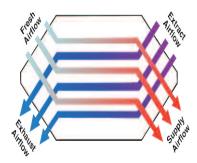
with integral acoustic attenuation

GENERAL FEATURES

- extremely low noise levels
- up to 163 litre/sec at 50Pa max 177 litre/sec capacity
- sfp down to 0.40 W/I/s
- summer bypass which allows the airflow 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 no extra cabinet required
- 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 - weight only 42 kgs
- 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
- relay for 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

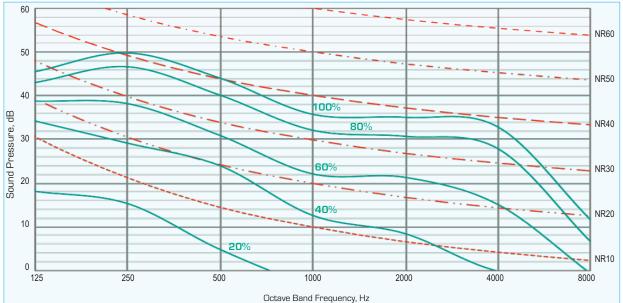
Vectaire Ltd can supply all accessories for use with these units, including product filters. air filter cassettes, silencers, fire dampers, air valves, ducting, outside grilles and wall cowls. Additionally, Vectaire offers a design service to ensure that the unit installed is the best possible to provide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



with integral acoustic attenuation

Maxi E	BY AT	Sound	Power Le	evels, <i>L_w</i> (dB) - Oct	ave Band	ls Freque	ncy Hz.	Sound Pressure	Noise Rating based on		
Curve Ref		125	250	500	1k	2k	4k	8k	dBA @ 3m	dB @ 1m		
4000/	Extract	60	64	51	46	38	30	24				
100% (177 l/sec)	Supply	70	74	69	59	53	46	42				
	Breakout	54	58	52	44	43	41	20	36.8	41		
	Extract	57	63	51	42	33	24	18				
80% [138 l/ sec] Supply		69	70	67	56	50	41	37				
Breakout		51	55	48	40	39	36	15	32.4	38		
	Extract	52	51	39	30	21	8	6				
60% (99 l/sec)	Supply	68	63	54	53	44	38	36				
	Breakout	47	46	39	30	29	23	7	23.4	29		
40%	Extract	47	45	29	21	9	2	6				
40% (60 l/sec)	Supply	58	49	45	34	27	12	7				
	Breakout	42	37	32	21	16	8	6	15.1	20		
200/	Extract	32	28	13	11	0	2	6				
20% (23 l/sec)	Supply	39	31	27	14	5	2	6				
	Breakout	26	23	13	5	1	2	6	<5.0	<10		
The breakout dB(A) sound pressure values are given for hemispherical free field propagation at a distance of 3m from the unit												
All the above data has been independently tested and verified by BRE to BS EN 13141-7:2010 and BS EN ISO 3741:2010												

BREAKOUT - NR (SPL curves based on breakout dB values at 1m)



RESULTS for SAP CALCULATIONS

ENERGY LEVEL PERFORMANCE - using rigid ducting only												
		2009 Data			2012 Data							
Exhaust Terminal Configuration	Airflow (l⁄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	0.43	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												

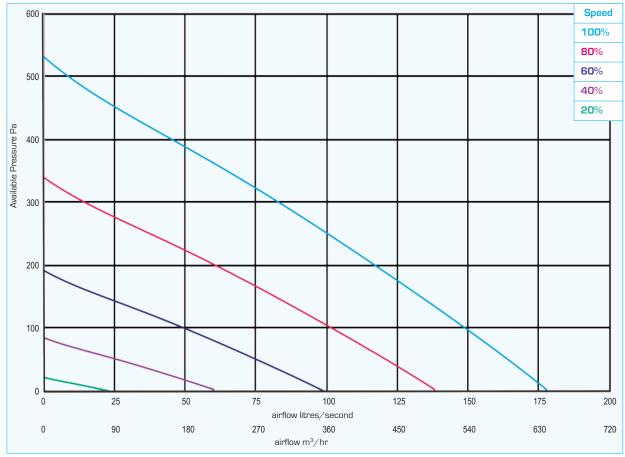
Tel: +44(0)1494 522333 Fax: +44(0)1494 522337



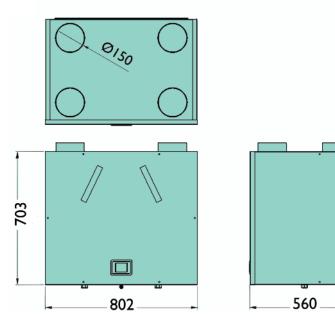
with integral acoustic attenuation

TECHNICAL CHARACTERISTICS													
Model	Airflow I/sec						Total Power - Watts						
IVIOUEI	100%	80%	60%	40%	20%	100%	80%	60%	40%	20%			
Maxi BY AT 177 138 99 60 23 176 97 44 17 4													

$PERFORMANCE \ \ (curves are for guidance only)$



DIMENSIONS - mm



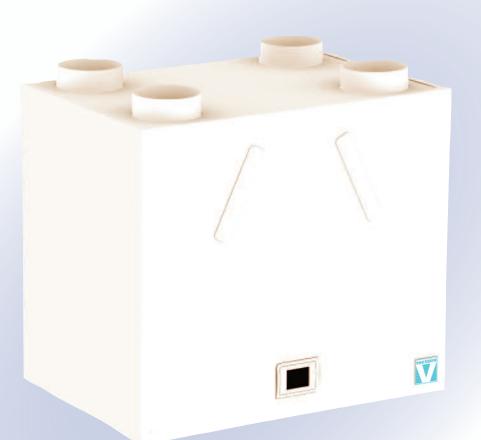
N.B a clearance of at least 150 mm should be allowed on each side of the cabinet for access to the interior











Maxi Plus BY

- 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

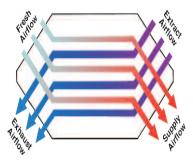


GENERAL FEATURES

- 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 airflow 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



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.

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
- relay for 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



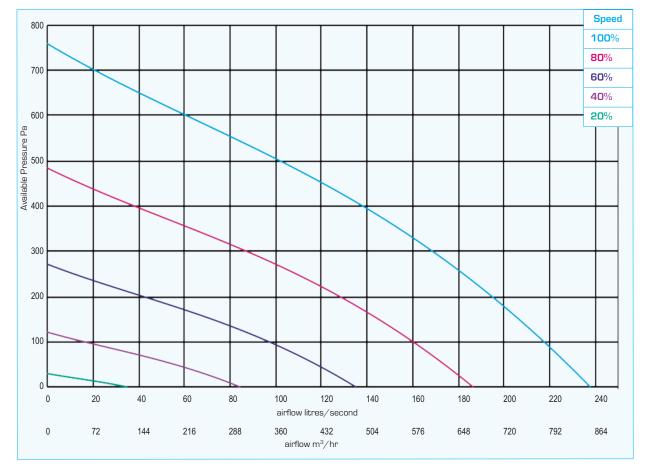
TECHNICAL CHARACTERISTICS													
Model	Airflow I/sec						Total Power - Watts						
IVIOUEI	100%	80%	60%	40%	20%	100%	80%	60%	40%	20%			
Maxi Plus BY 238 186 135 84 35 355 184 85 32 8													

Maxi I	Plus BY	S	Sound Power Levels, L_w (dB) - Octave Bands Frequency Hz.										
Curve Ref		63	125	250	500	1k	2k	4k	8k	dBA @ 3m			
100%	Extract	67	63	66	64	64	61	58	54				
100% (238 l/sec)	Supply	72	68	71	69	69	66	63	59				
	Breakout	67	65	64	57	51	53	49	32	43.1			
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	62	59	60	52	45	44	39	28	37.4			
00%	Extract	58	52	53	51	51	48	43	35				
60% (135 l/sec)	Supply	63	57	58	56	56	53	48	40				
	Breakout	58	54	57	45	39	37	31	25	32.8			
409/	Extract	51	44	44	42	42	37	31	21				
40% (84 l/sec)	Supply	56	49	49	47	47	42	36	26				
	Breakout	52	47	48	41	36	31	26	23	26.0			
00%	Extract	40	32	30	29	27	24	14	16				
20% (35 l/sec)	Supply	45	37	35	34	32	29	22	25				
Breakout 44 36 34 33 31 28 20 21 20.4													
The breakout dB(A) sound pressure values are given for hemispherical free field propagation at a distance of 3m from the unit													
All the above data has been independently tested to BS EN ISO 3743-1:2010													

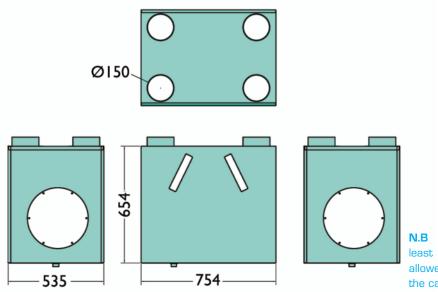
RESULTS for SAP CALCULATIONS ENERGY LEVEL PERFORMANCE - using rigid ducting only												
		2009 Data		2012 Data								
Exhaust Terminal Configuration	Airflow (l⁄sec)	Specific Fan Power (W/I/sec)	Heat Exchange Efficiency	Airflow (l⁄sec)	Specific Fan Power (W/I/sec)	Heat Exchange Efficiency						
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	0.55	87 %	61	0.78	85%						
Kitchen + 7 additional wet rooms	51	0.63	86%	69	0.94	84%						
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

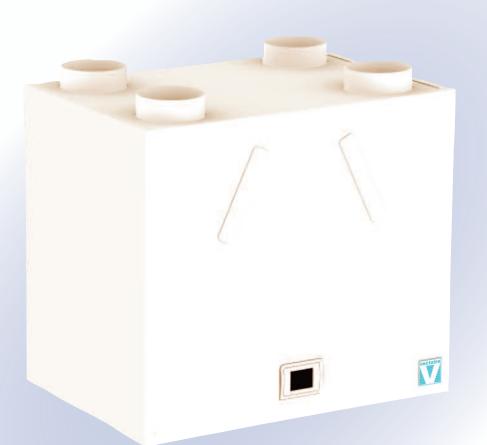
with integral acoustic attenuation











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 no extra cabinet required
- 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



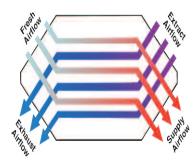
with integral acoustic attenuation

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 airflow 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 no extra cabinet required
- 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 - weight only 42 kgs
- 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
- 0-10V connections can be added for:
 - BMS for remote motor shut-off
 - CO₂ detector
 - home automation system
- relay for 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

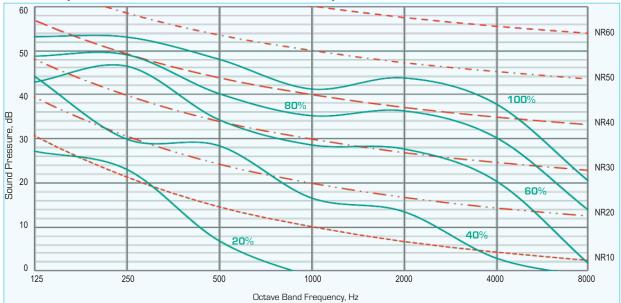
Vectaire Ltd can supply all accessories for use with these units, including product filters. air filter cassettes, silencers, fire dampers, air valves, ducting, outside grilles and wall cowls. Additionally, Vectaire offers a design service to ensure that the unit installed is the best possible to provide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



with integral acoustic attenuation

Maxi Plu	s BY AT	Sound	Power Le	vels, <i>L_w</i> (dB) - Oct	ave Band	ls Freque	ncy Hz.	Sound Pressure	Noise Rating based on		
Curve Ref		125	250	500	1k	2k	4k	8k	dBA @ 3m	dB @1m		
4000	Extract	61	63	57	49	43	34	28				
100% (238 l/sec)	Supply	75	79	74	66	63	52	52				
	Breakout	61	61	56	49	52	46	29	41.1	47		
000/	Extract	57	59	51	44	37	28	23				
80% (186 l/ sec) Supply		71	71	66	60	58	46	47				
Breakout		57	57	48	43	44	38	22	34.9	40		
SO0/	Extract	51	55	45	36	27	15	8				
60% (135 l/sec)	Supply	64	68	60	51	48	34	29				
	Breakout	51	54	42	37	36	28	10	28.9	37		
400/	Extract	49	44	35	26	17	4	6				
40% (84 l/sec)	Supply	59	52	48	41	36	19	12				
	Breakout	52	38	36	25	21	11	7	20.7	26		
000/	Extract	36	36	28	12	3	2	6				
20% 35 l/sec)	Supply	42	41	31	21	12	2	6				
00 // 000]	Breakout	35	31	15	7	1	3	7	5.8	12		
The breakout	The breakout dB(A) sound pressure values are given for hemispherical free field propagation at a distance of 3m from the unit											
All the above	All the above data has been independently tested and verified by BRE to BS EN 13141-7:2010 and BS EN ISO 3741:2010											

BREAKOUT - NR (SPL curves based on breakout dB values at 1m)



RESULTS for SAP CALCULATIONS

ENERGY LEVEL PERFORMANCE - using rigid ducting only													
		2009 Data			2012 Data								
Exhaust Terminal Configuration	Airflow (l⁄ 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	0.55	87 %	61	0.78	85%							
Kitchen + 7 additional wet rooms	51	0.63	86%	69	0.94	84%							
The second state of the se													

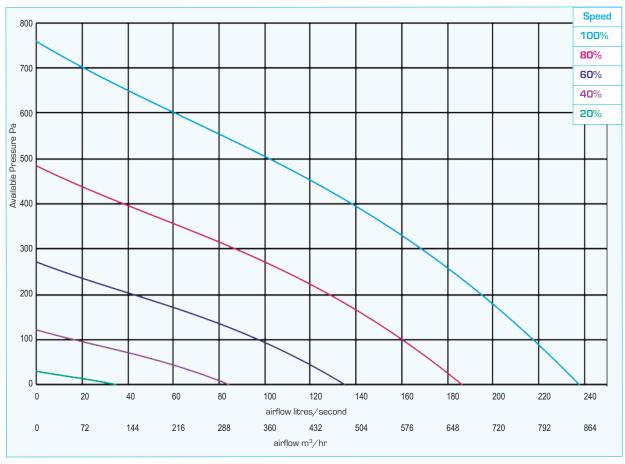
Figures at minimum flow rate conditions



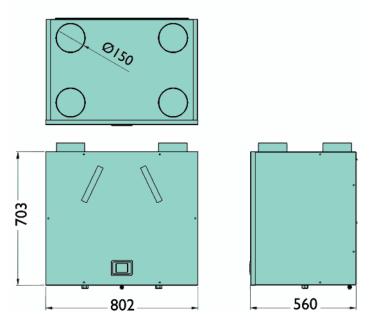
with integral acoustic attenuation

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

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 $60m^2$ and $200m^2$ 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 MVHRs 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

Summer Bypass

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

Frost Protection

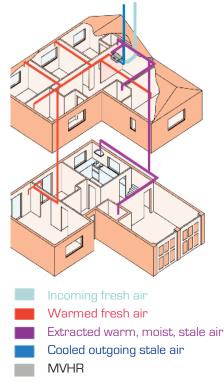
The integral frost-stat proportionally reduces intake motor speed as the temperature falls. This stops the ingress of cold air and consequently the removal of warm air making sure that the ambient remains comfortable. It is activated when the outside temperature is between $+8^{\circ}C$ and $-3^{\circ}C$.

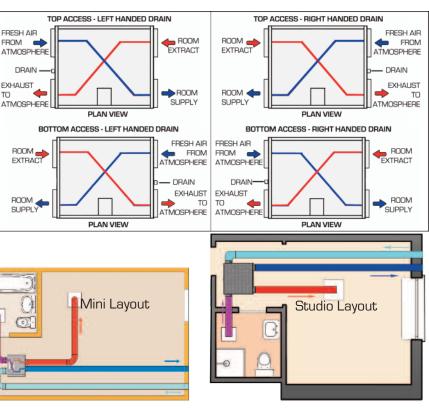
Humidity Control

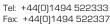
Models with an integral humidity sensor (H) increase the speed of the motors proportionally as the humidity rises. It responds to increases in relative humidity ensuring a comfortable ambience throughout the day and night. The speed of the motors will fall back to normal levels once the excess humidity 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 be lost.







MVHR LCD Controller





- For use with all Vectaire Heat Recovery Units
- Remote units can be mounted wherever is convenient to the user ([Model No: LCD-DISPLAY]
- (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.

Setting Date: sets date format

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

Boost Speed Time Delay

Boost Speed Over-run Timer

Run Time Counter and Filter Saturation



Language Selection

Touch Screen Calibration

Commissioning Screen



Night Time Boost Inhibitor



Screen Cleaning: wipe screen safely without deleting settings

Exit to main screen

Tel: +44(0)1494 522333 Fax: +44(0)1494 522337

EV0200







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

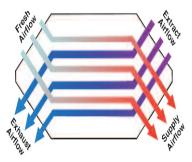


GENERAL FEATURES

- 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 airflow 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
- relay for 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



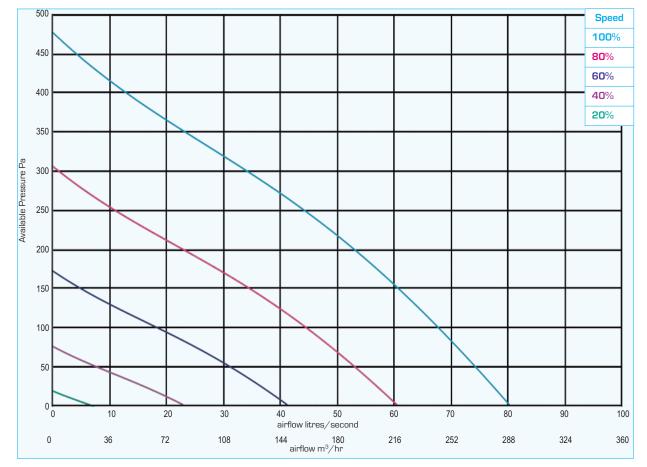
TECHNICAL CHARACTERISTICS													
Model	Airflow I/sec						Total Power - Watts						
IVIOUEI	100%	80%	60%	40%	20%	100%	80%	60%	40%	20%			
EV0200 81 61 41 23 7 101 52 24 9 2													

EVC	0200	S	Sound Power Levels, L_w (dB) - Octave Bands Frequency Hz.										
Curve Ref		63	125	250	500	1k	2k	4k	8k	- dBA @ 3m			
100%	Extract	63	61	63	64	61	59	60	50				
100% (81 l/sec)	Supply	68	66	68	69	66	64	65	55				
	Breakout	66	59	55	50	41	33	28	16	33.8			
223/	Extract	59	57	58	59	56	53	52	41				
80% (61 l/sec)	Supply	64	62	63	64	61	58	57	46				
	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				
	Breakout	57	51	45	39	30	21	11	< 5	23.8			
109/	Extract	47	48	45	45	41	37	31	18				
40% (23 l/sec)	Supply	52	53	50	50	46	42	36	23				
	Breakout	50	46	37	31	21	11	< 5	< 5	16.7			
2001	Extract	34	37	32	31	25	21	11	4				
20% (7 l/sec)	Supply	39	42	37	36	30	26	16	9				
(, , , , , , , , , , , , , , , , , , ,	Breakout	37	35	24	17	5	< 5	< 5	< 5	<10.0			

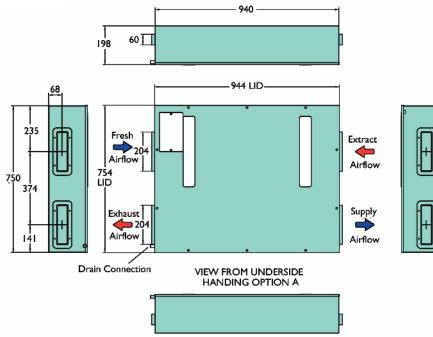
RESULTS for SAP CALCULATIONS ENERGY LEVEL PERFORMANCE - using rigid ducting only												
		2009 Data		2012 Data								
Exhaust Terminal Configuration	erminal Configuration Airflow [I/sec] Specific Fan Power [W/I/sec] Heat Exchange Efficiency Airflow [I/sec] Specific He Exchange [I/sec] Heat (W/I/sec] Efficiency Airflow [I/sec] Specific Exchange Efficiency Specific Exchange [I/sec] Specific Exchange Efficiency Specific Exchange [I/sec] Specific Exchange Efficiency Efficiency Specific Exchange Efficiency Efficiency Exchange Exchange Efficiency Exchange E											
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												

vectaire

PERFORMANCE (curves are for guidance only)



DIMENSIONS - mm



N.B a clearance of at least 944L x 754W x 400H mm should be available on each side of the cabinet to allow access to the motors









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

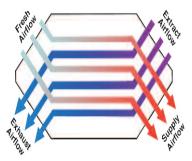


GENERAL FEATURES

- 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 airflow 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:

- EV0250DC/BABY bottom access, bypass
- EV0250DC/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
- relay for 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

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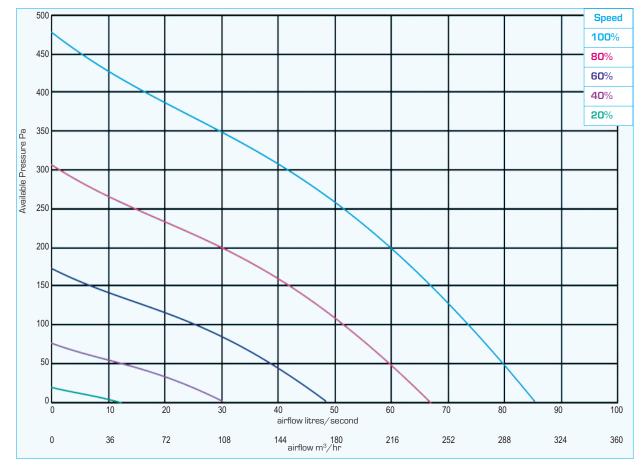
TECHNICAL CHARACTERISTICS										
Model		Ai	irflow I/se	I/ sec Total Power - Watts						
IVIOUEI	100%	80%	60%	40%	20%	100%	80%	60%	40%	20%
EV0250	85	67	48	30	12	101	53	23	9	2

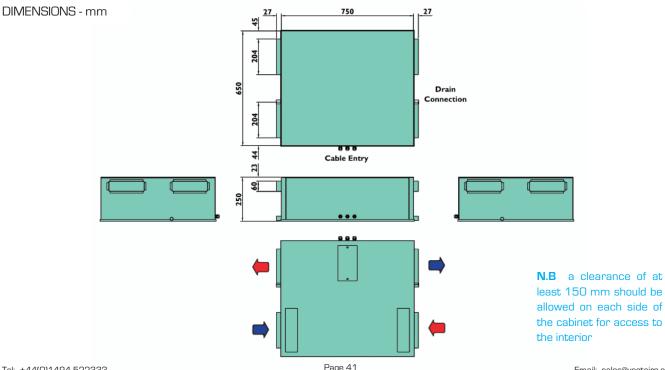
EV	0250	S	ound Pow	ver Levels	, <i>L_w</i> (dB) -	Octave E	Bands Fre	quency H	Z.	Sound Pressure	
Curve Ref		63	125	250	500	1k	2k	4k	8k	dBA @ 3m	
4000	Extract	63	60	62	64	61	59	60	50		
100% (85 l/sec)	Supply	68	65	67	69	66	64	65	55		
	Breakout	66	58	54	50	41	33	28	16	33.4	
000	Extract	59	57	58	58	56	53	53	42		
80% (67 l/sec)	Supply	64	62	63	63	61	58	58	47		
	Breakout	62	55	50	44	36	27	21	8	28.7	
2021	Extract	54	51	51	52	49	46	43	31		
60% (48 l/sec)	Supply	59	56	56	57	54	51	48	36		
	Breakout	57	49	43	38	29	20	11	< 5	22.4	
109/	Extract	46	44	43	42	40	36	31	17		
40% (30 l/sec)	Supply	51	49	48	47	45	41	36	22]	
	Breakout	49	42	35	28	20	10	< 5	< 5	14.1	
2021	Extract	33	33	29	28	24	20	5	З		
20% (12 l/sec)	Supply	38	38	34	33	29	25	10	8		
[12 9 000]	Breakout	36	31	21	14	< 5	< 5	< 5	< 5	< 10.0	
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 (l⁄ sec)	Specific Fan Power (W/I/sec)	Heat Exchange EfficiencyAirflow [I/sec]Specific Fan Power [W/I/sec]Heat Exchan Exchan 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 condition	Figures at minimum flow rate conditions									

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PERFORMANCE (curves are for guidance only)





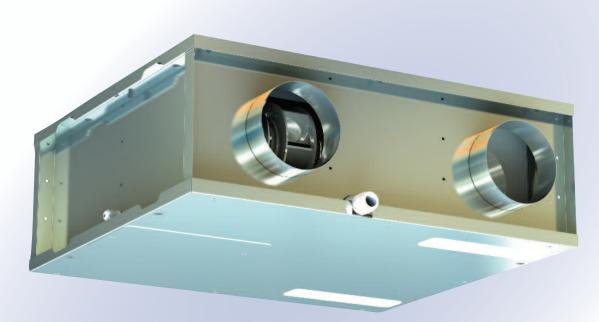
least 150 mm should be allowed on each side of the cabinet for access to

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EV0220DC

- with summer bypass and frost-stat
- efficient, low energy solution to controlling condensation and pollution in residential properties
- up to 87% 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

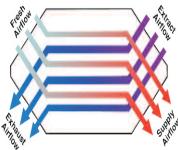


GENERAL FEATURES

- up to 70 litre/sec at 50Pa max 75 litre/sec capacity
- sfp down to 0.55 W/I/s
- summer bypass which allows the airflow to bypass the heat exchanger automatically when internal and external temperatures are between adjustable setpoints.
- frost-protection 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:

- EVO220DC/BALBY bottom access, left drain, bypass
- EVO220DC/BARBY bottom access, right drain, bypass
- EV0220DC/TALBY top access, left drain, bypass
- EV0220DC/TARBY top access, left drain, bypass
- Humidistat models available

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
- relay for 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.



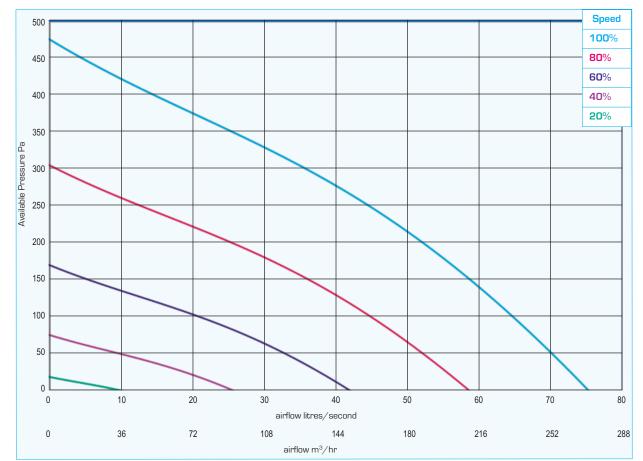
TECHNICAL CHARACTERISTICS											
Model		A	irflow l/se	ec		Total Power - Watts					
IVIOUEI	100%	80%	60%	40%	20%	100%	80%	60%	40%	20%	
EVO220DC	75	58	42	26	10	96	52	26	11	5	

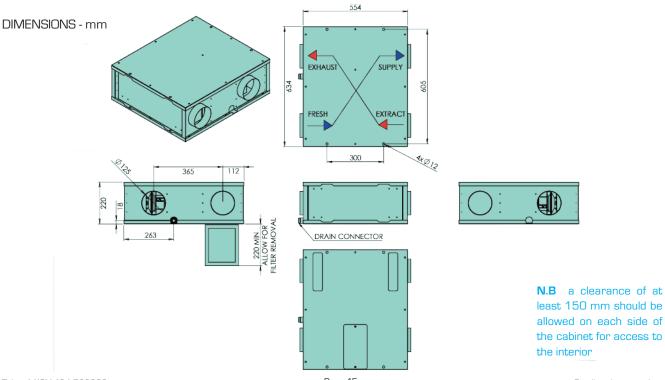
EVO	220DC	S	ound Pow	ver Levels	, <i>L_w</i> (dB) -	Octave B	Bands Fre	quency H	z.	Sound Pressure
Curve Ref		63	125	250	500	1k	2k	4k	8k	dBA @ 3m
	Extract	63	62	63	64	61	59	58	49	
100% (75 l/sec)	Supply	68	67	68	69	66	64	63	54	-
	Breakout	66	60	55	50	41	33	26	21	34.0
223/	Extract	59	58	58	58	56	53	51	41	
80% (58 l/sec)	Supply	64	63	63	63	61	58	56	46	
	Breakout	62	56	50	44	36	27	19	15	28.9
223/	Extract	54	53	52	52	49	47	43	32	
60% (42 l/sec)	Supply	59	58	57	57	54	52	48	37	-
[42 1/ 300]	Breakout	57	51	44	38	29	21	11	9	23.2
100/	Extract	47	47	45	44	41	38	32	19	
40% (26 l/sec)	Supply	52	52	50	49	46	43	37	24	
	Breakout	50	45	37	30	21	12	7	6	16.2
223/	Extract	37	40	36	35	29	25	18	11	
20% (10 l/sec)	Supply	42	45	41	40	34	30	23	16	
	Breakout	40	38	28	21	9	7	6	5	7.9

The breakout dB(A) sound pressure values are given for hemispherical free field propagation at	a distance of 3m	ו from the unit
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RESULTS for SAP CALCULATIONS ENERGY LEVEL PERFORMANCE - using rigid ducting or	nly	2012 Data								
	Specific Heat									
Exhaust Terminal Configuration	Airflow [l⁄sec]	Fan Power (W/I/sec)	Exchange							
Kitchen + 1 additional wet room	21	0.55	87%							
Kitchen + 2 additional wet rooms	29	0.69	84%							
Kitchen + 3 additional wet rooms	37	0.88	81%							
Kitchen + 4 additional wet rooms	45	1.16	79%							
Kitchen + 5 additional wet rooms	53	1.48	77%							
Figures at minimum flow rate conditions - tested by our own	laboratory	1								

PERFORMANCE (curves are for guidance only)





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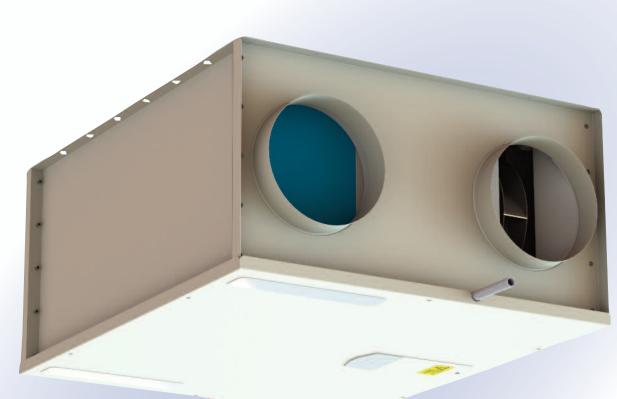
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EV0350

- 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

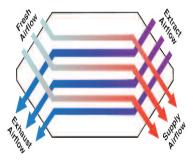


GENERAL FEATURES

- up to 107 litre/sec at 50Pa max 116 litre/sec capacity
- sfp down to 0.67 W/I/s
- summer bypass which allows the airflow 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:

- EV0350DC/BABY bottom access, bypass
- EV0350DC/BALBYH bottom access, left drain, bypass, humidistat
- EV0350DC/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
- relay for 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.

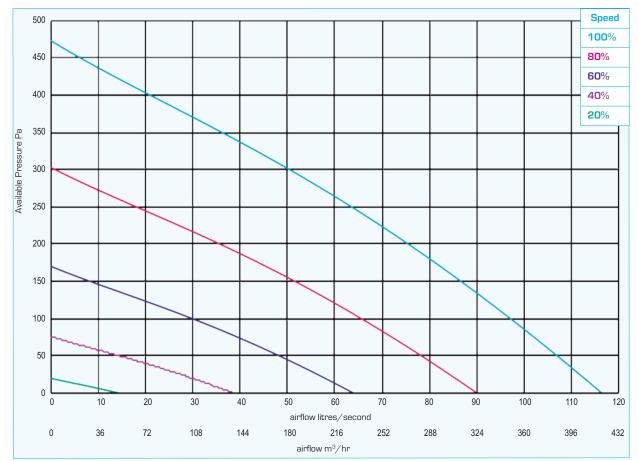


TECHNICAL CHARACTERIS	TECHNICAL CHARACTERISTICS										
Model		Ai	rflow I/se	ес		Total Power - Watts					
IVIUUEI	100%	80%	60%	40%	20%	100%	80%	60%	40%	20%	
EV0350	116	90	64	38	14	157	83	39	15	4	

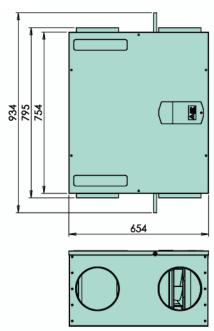
EVC)350	S	ound Pow	ver Levels	, <i>L_w</i> (dB) -	Octave E	Bands Fre	quency H	Z.	Sound Pressure
Curve Ref		63	125	250	500	1k	2k	4k	8k	dBA @ 3m
4000	Extract	63	65	64	63	60	57	54	49	
100% (116 l/sec)	Supply	68	70	69	68	65	62	59	54]
	Breakout	66	63	56	49	40	31	22	15	34.6
000/	Extract	59	61	60	58	54	52	48	41	
80% (90 l/sec)	Supply	64	66	65	63	59	57	53	46]
	Breakout	62	59	52	44	34	26	16	9	30.3
200	Extract	53	55	54	52	48	45	40	32	
60% (64 l/sec)	Supply	58	60	59	57	53	50	45	37	
	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]
	Breakout	49	46	38	29	19	9	7	< 5	16.5
200	Extract	35	36	32	28	24	20	7	5	
20% (14 l/sec)	Supply	40	41	37	33	29	25	12	10	1
[Breakout	38	34	24	14	8	6	< 5	< 5	<10
The breakout	dB(A) sound pre	ssure valu	Jes are giv	en for her	mispherica	al free field	d propagat	tion at a d	istance of	f 3m from the unit

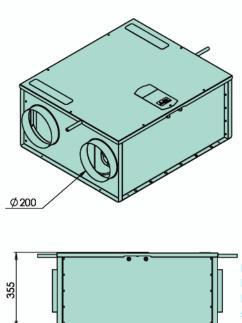
RESULTS for SAP CALCULATIONS ENERGY LEVEL PERFORMANCE - using rigid ducting only										
		2009 Data		2012 Data						
Exhaust Terminal Configuration	Airflow (l⁄ sec)	Specific Fan Power (W/I/sec)	Heat Exchange Efficiency	Airflow (l⁄sec)	Specific Fan Power (W/I/sec)	Heat Exchange Efficiency				
Kitchen + 1 additional wet room	15	0.76	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										

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



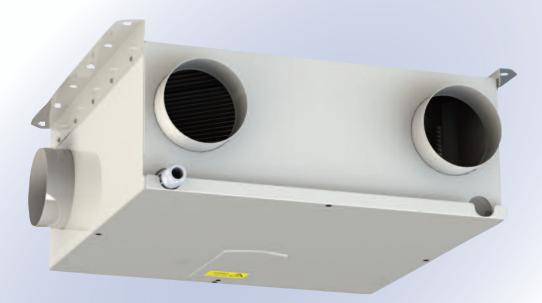
Studio











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/I/s
- summer bypass which allows the airflow 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

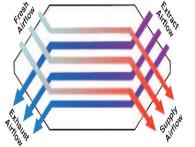
- independent variable speed adjustment for each motor for trickle, boost and purge speeds.
- adjustable boost speed over-run timer from 0 to 90 minutes.
- adjustable boost speed delay from 0 to 5 minutes
- remote purge adjustable over-run timer from 0 to 250 minutes, pre-set to 15 minutes (adjustable 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
- relay for 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

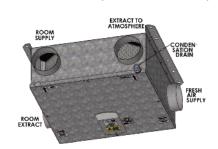
TYPICAL SPECIFICATION AVAILABLE AT

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



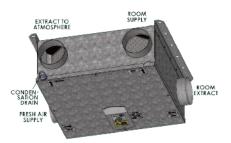
- MODELS AVAILABLE:
- Studio LB left drain, bypass
- Studio RB right drain, bypass
- Studio LBH left drain, bypass, humidistat
- Studio RBH right drain, bypass, humidistat
- Studio L left drain
- Studio R right drain
- Studio LH left drain, humidistat
- Studio RH right drain, humidistat

STUDIO - OPTION 1 (RIGHT HAND DRAIN)



STUDIO - OPTION 2 (LEFT HAND DRAIN)

Studio Layout



Email: sales@vectaire.co.uk Web: www.vectaire.co.uk

- Incoming fresh air Warmed fresh air
 - Extracted warm, moist, stale air

Cooled outgoing stale air

MVHR

Studio



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

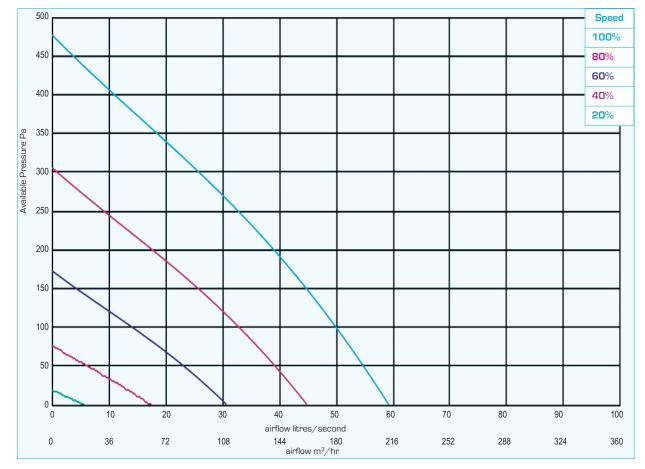
Studio		S	Sound Pow	ver Levels	, <i>L_w</i> (dB) -	Octave B	Bands Fre	quency H	Ζ.	Sound Pressure
Curve Ref		63	125	250	500	1k	2k	4k	8k	dBA @ 3m
	Extract	63	65	66	66	62	59	57	49	
100% (59 l/sec)	Supply	68	70	71	71	67	64	62	54	-
	Breakout	66	63	58	52	42	33	25	15	36.3
223/	Extract	59	62	61	61	57	54	50	42	
80% (45 l/sec)	Supply	64	67	66	66	62	59	55	47	
	Breakout	62	60	53	47	37	28	18	8	31.8
	Extract	53	57	55	55	50	47	41	32	
60% (30 l/sec)	Supply	58	62	60	60	55	52	46	37	-
	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]/ 000]	Breakout	49	48	39	33	21	11	< 5	< 5	18.4
00%	Extract	34	38	33	33	27	22	12	3	
20% 6 [/sec]	Supply	39	43	38	38	32	27	17	8	
6 l/ secj 📃	Breakout	37	36	25	19	7	< 5	< 5	< 5	<10.0

RESULTS for SAP CALCULATIONS ENERGY LEVEL PERFORMANCE - using rigid ducting only											
		2009 Data		2012 Data							
Exhaust Terminal Configuration	Airflow (l/ sec)	Specific Fan Power (W/I/sec)	Heat Exchange Efficiency	Airflow [l/sec]Specific Fan Power (W/l/sec)Hea Excha Efficie							
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 condition	Figures at minimum flow rate conditions -										

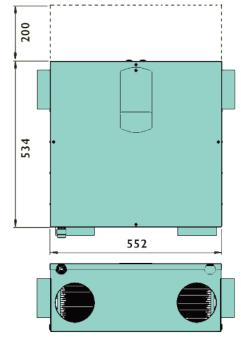
Vectaire Ltd can supply all accessories for use with these units, including product filters. air filter cassettes, silencers, fire dampers, air valves, ducting, outside grilles and wall cowls. Additionally, Vectaire offers a design service to ensure that the unit installed is the best possible to provide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

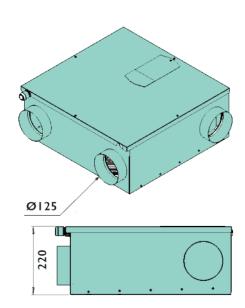
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PERFORMANCE (curves are for guidance only)



DIMENSIONS - mm





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











- 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



GENERAL FEATURES

- for 1 or 2 bedroom apartments, hotel rooms, student accommodation, extra care facilities, multi-occupancy establishments etc
- 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 airflow 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

Incoming fresh air

Warmed fresh air

WHHR Mini DC

 all models bottom access only with right or left drain. Allow clearance on discharge side of unit for access to wiring connections. Sufficient allowance also required to remove lid

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
 - relay for 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

FROM

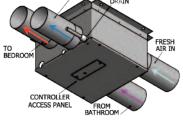
WHHR MINI DC OPTION 2 (LEFT HAND DRAIN)

FRESH AIR IN

WHHR MINI DC OPTION 1 (RIGHT HAND DRAIN)







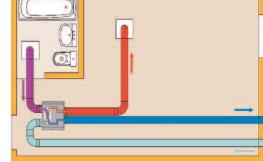
MODELS AVAILABLE:

CONTROLLER ACCESS PANEL

DRATN

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



Extracted warm, moist, stale air Cooled outgoing stale air

Tel: +44(0)1494 522333 Fax: +44(0)1494 522337



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

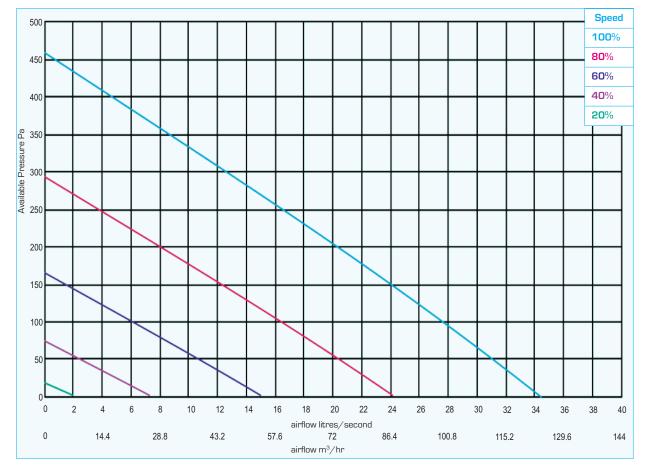
Mini		S	ound Pow	ver Levels	, <i>L_w</i> (dB) -	Octave B	3ands Fre	quency H	Z.	Sound Pressure
Curve Ref		63	125	250	500	1k	2k	4k	8k	dBA @ 3m
	Extract	63	69	69	69	63	59	56	50	
100% (34 l/sec)	Supply	68	74	74	74	68	64	61	55	
	Breakout	66	67	61	55	43	33	24	16	39.3
223/	Extract	59	65	64	64	58	54	50	43	
80% (24 l/sec)	Supply	64	70	69	69	63	59	55	48	
	Breakout	62	63	56	50	38	28	18	9	34.6
	Extract	54	59	58	58	51	47	42	33	
60% (15 l/sec)	Supply	59	64	63	63	56	52	47	38	
	Breakout	57	57	50	44	31	21	10	<5	28.6
100	Extract	47	52	50	49	43	39	32	21	
40% (7 l/sec)	Supply	52	57	55	54	48	44	37	26	
[7 1/ 300]	Breakout	50	50	42	35	23	13	<5	<5	20.7
	Extract	36	41	37	36	29	24	15	<5	
20% (2 l/sec)	Supply	41	46	42	41	34	29	20	7	
	Breakout	39	39	29	22	9	5	<5	<5	<10.0
The breakout	dB(A) sound pre	essure valu	Jes are giv	en for her	nispherica	al free field	d propagat	tion at a d	istance of	f 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 Fan Power (W/I/sec)	Heat Exchange Efficiency	ange Airflow Fan Power Exc								
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												

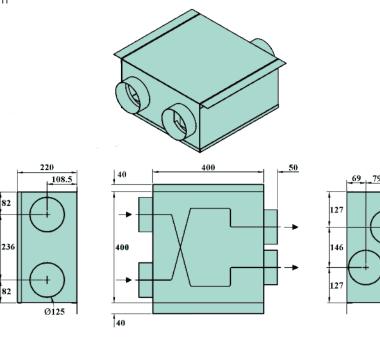
Vectaire Ltd can supply all accessories for use with these units, including product filters. air filter cassettes, silencers, fire dampers, air valves, ducting, outside grilles and wall cowls. Additionally, Vectaire offers a design service to ensure that the unit installed is the best possible to provide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

vectaire

PERFORMANCE (curves are for guidance only)



DIMENSIONS - mm

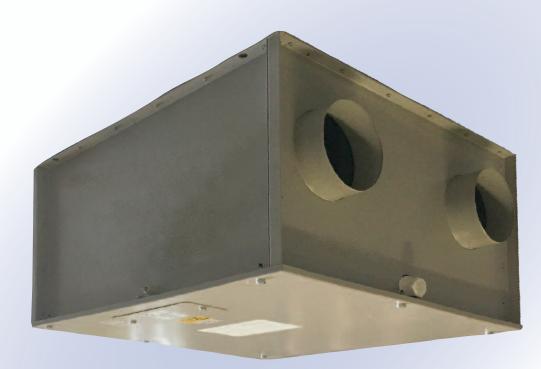


N.B a clearance of at least 160 mm should be allowed at the back of the unit for access to the filters, and sufficient allowance is required to remove the lid









WHHR100/90DC-B-BY

- 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

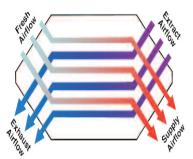


GENERAL FEATURES

- up to 78 litre/sec at 50Pa max 83 litre/sec capacity
- sfp down to 0.63 W/I/s
- summer bypass which allows the airflow 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
- relay for 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



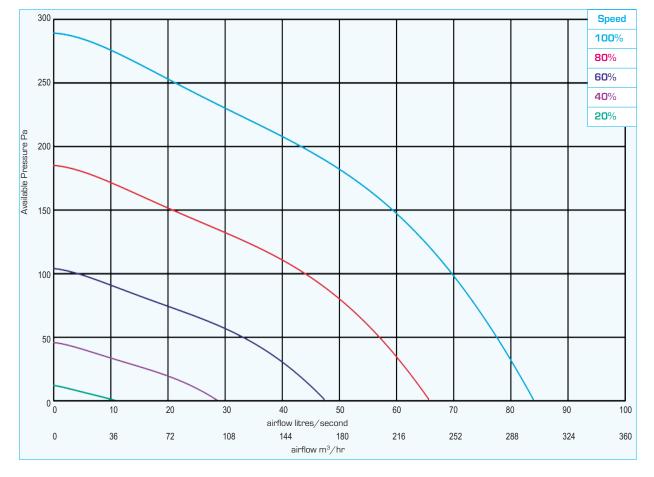
TECHNICAL CHARACTERISTICS												
Model	Airflow I/sec						Total Power - Watts					
	100%	80%	60%	40%	20%	100%	80%	60%	40%	20%		
WHHR100/90DC-B-BY	83	66	47	29	11	106	54	33	20	12		

WHHR100/S	90DC-B-BY	S	ound Pow	ver Levels	, <i>L_w</i> (dB) -	Octave B	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	
	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	
	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	
[Breakout	45	47	50	51	48	32	24	21	32.0
400/	Extract	50	48	39	42	34	24	22	22	
40% (29 l/sec)	Supply	49	48	46	54	52	41	37	30	
	Breakout	42	43	47	48	45	30	21	20	29.0
200	Extract	47	44	35	39	31	19	17	21	
20% (11 l/sec)	Supply	46	46	43	51	47	37	31	23	
[Breakout	39	39	45	44	41	28	17	20	25.0

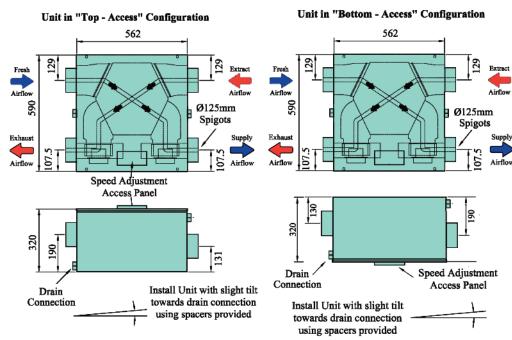
	RESULTS for SAP CALCULATIONS ENERGY LEVEL PERFORMANCE - using rigid ducting only											
		2009 Data			2012 Data							
Exhaust Terminal Configuration	Airflow (l/ sec)	Specific Fan Power (W/I/sec)	Heat Exchange Efficiency	Airflow [l/sec]Specific Fan Power (W/l/sec)Heat Exchang Efficience								
Kitchen + 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 condition	S											



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









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



GENERAL FEATURES

- up to 97 litre/sec at 50Pa max 108 litre/sec capacity
- sfp down to 0.20 W/I/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
- 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

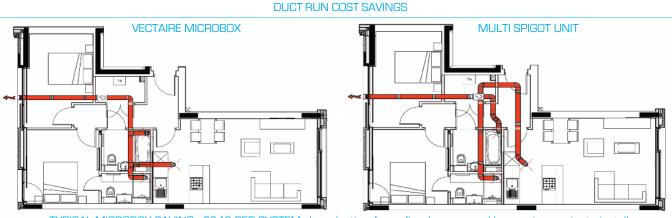
COMPLIES WITH

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

MBOX125/2DC204 with rectangular spigots -204mm x 60mm





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.



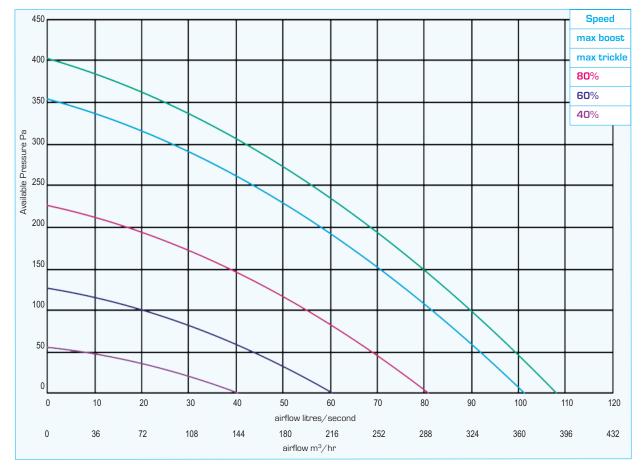
TECHNICAL CHARACTERISTICS												
Model	Airflow I/sec						Total Power - Watts					
	max boost	max trickle	80%	60%	40%	max boost	max trickle	80%	60%	40%		
Microbox 125/2DC	108	101	80	60	40	46	45	26	12	6		

Microbox 128	5/2DC	S	ound Pow	ver Levels	, <i>L_w</i> (dB) ·	Octave B	Bands Fre	equency 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	
	Breakout	56	56	51	41	34	26	16	18	28.2
	Extract	52	57	58	54	53	51	46	50	
Max Trickle (101 l/sec)	Supply	57	62	63	59	58	56	51	55	_
	Breakout	55	55	50	40	33	25	14	16	27.2
	Extract	48	53	53	49	48	46	40	42	
80% (80 l/sec)	Supply	53	58	58	54	53	51	45	47	_
	Breakout	51	51	45	35	28	20	8	8	22.5
223/	Extract	45	49	47	43	42	39	32	32	
60% (60 l/sec)	Supply	50	54	52	48	47	44	37	37	
	Breakout	48	47	39	29	22	19	< 5	< 5	17.4
	Extract	40	42	40	36	35	31	24	12	
40% (40 l/sec)	Supply	45	47	45	41	40	36	29	17	
	Breakout	43	40	32	22	15	5	< 5	<5	10.5

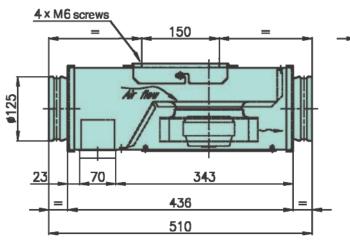
RESULTS for SAP CALCULATIONS ENERGY LEVEL PERFORMANCE - using rigid ducting only						
	2012 Data					
Exhaust Terminal Configuration	Airflow [l⁄sec]	Specific Fan Power (W/I/sec)				
Kitchen + 1 additional wet room	21	0.20				
Kitchen + 2 additional wet rooms	29	0.26				
Kitchen + 3 additional wet rooms	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	1					

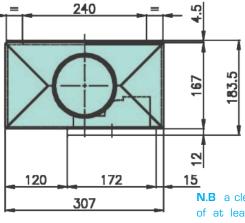
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PERFORMANCE (curves are for guidance only)



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

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



GENERAL FEATURES

- up to 233 litre/sec at 50Pa max 251 litre/sec capacity
- sfp down to 0.27 W/I/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
- 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

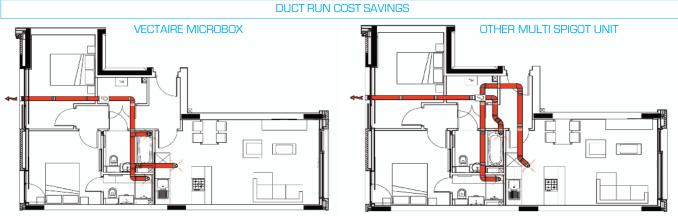
- variable adjustment trickle, boost and purge speeds set at installation (purge option factory set)
- boost setting (via switched live)
- integral, adjustable over-run timer adjustable from 0-30 minutes set at installation

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



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.

Microbox 200/2DC



TECHNICAL CHARACTERISTICS												
Model	Airflow I/sec						Total Power - Watts					
	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		

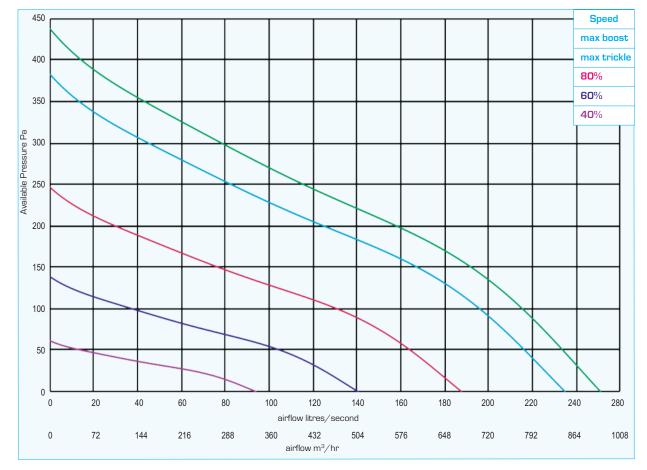
Microbox 200	D/2DC	S	ound Pow	ver Levels	, <i>L_w</i> (dB) -	Octave B	Bands Fre	quency H	Z.	Sound Pressure	
Curve Ref		63	125	250	500	1k	2k	4k	8k	- dBA @ 3m	
	Extract	58	60	65	63	64	62	58	58		
Max Boost (251 l/sec)	Supply	63	65	70	68	69	67	63	63		
	Breakout	61	58	57	49	44	36	26	24	34.4	
	Extract	57	59	64	61	62	60	57	56		
Max Trickle (235 l/sec)	Supply	62	64	69	66	67	65	62	61		
	Breakout	60	57	56	47	42	34	25	22	33.0	
	Extract	53	55	59	56	57	55	50	48		
80% (188 l/sec)	Supply	58	60	64	61	62	60	55	53		
[100 / 000]	Breakout	56	53	51	42	37	29	18	14	28.2	
203/	Extract	49	50	52	49	50	48	42	39		
60% (141 l/sec)	Supply	54	55	57	54	55	53	47	44		
[1417 000]	Breakout	52	48	44	35	30	22	10	5	21.6	
	Extract	43	42	43	40	41	38	32	25		
40% (94 l/sec)	Supply	48	47	48	45	46	43	37	30		
[0-+1/ 300]	Breakout	46	40	35	26	21	12	< 5	< 5	13.0	

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	0.28		
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				

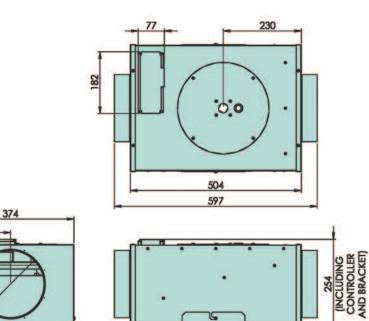
vectaire

Microbox 200/2DC

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

187

235

9198

Elegance - EL1003









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

Elegance - EL1003

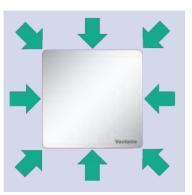


GENERAL FEATURES

- 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/I/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 l/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)

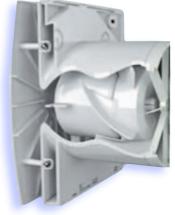
N.B timer adjustable from 0-30 mins

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

Elegance - EL1003



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

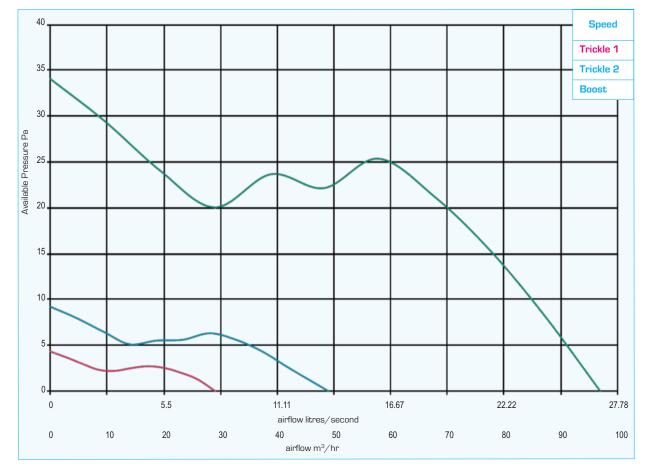
RESULTS for SAP CALCULATIONS ENERGY LEVEL PERFORMANCE - using rigid ducting only					
Unit Configuration	Specific Fan Power (W/I/s)	EST Best Practice Performance Compliant	Flow Rate (l/sec)		
In room - kitchen	0.12	Yes	13.0		
In room - wetroom	0.11	Yes	8.0		
Through wall - kitchen	0.09	Yes	13.0		
Through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

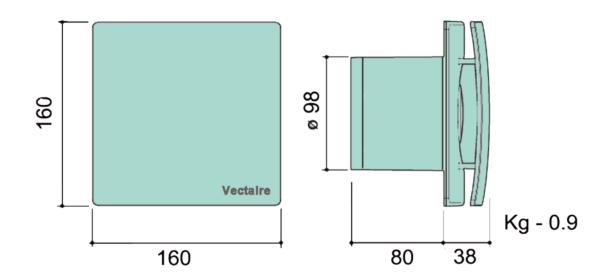


Elegance - EL1003

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

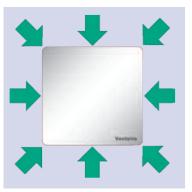


GENERAL FEATURES

- exhausts directly to the outside or through long lengths of ducting (up to 15m)
- sfp down to 0.14 W/I/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

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

Elix - ELX1003



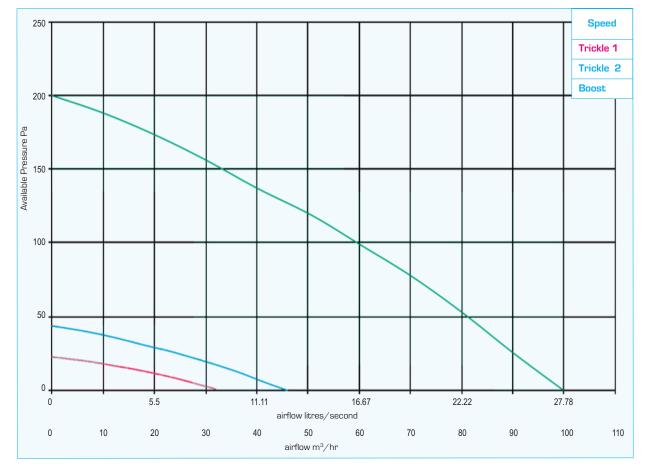
TECHNICAL CHARACTERISTICS									
N 4I - I	А	irflow l/se	C	Po	ower - Wat	ts	dBA (@	9 3m in fre	e field)
Model	Trickle 1	Trickle 2	Boost	Trickle 1	Trickle 2	Boost	Trickle 1	Trickle 2	Boost
ELX1003	8.8	13	28	1.6	2.4	15	15.5	17.5	35

RESULTS for SAP CALCULATIONS ENERGY LEVEL PERFORMANCE - using rigid ducting only							
Unit Configuration	Specific Fan Power (W/I/s)	EST Best Practice Performance Compliant	Flow Rate (l/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	Figures from BRE test results at minimum flow rate conditions						

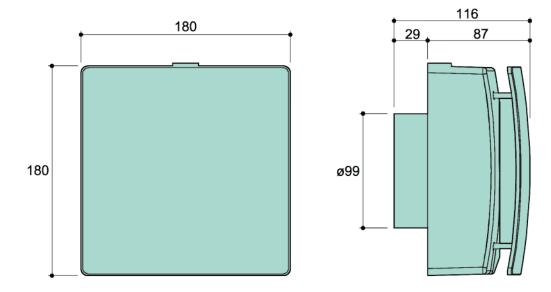
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Elix - ELX1003

PERFORMANCE (curves are for guidance only)



DIMENSIONS - mm



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



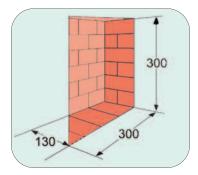
GENERAL FEATURES

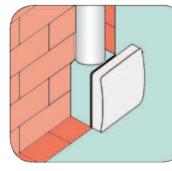
- exhausts directly to the outside or through long lengths of ducting (up to 15m)
- sfp down to 0.35 W/l/s
- easy and economical to install and maintain
- runs continuously at trickle speed with choice of 3 boost speeds (fixed at installation)
- Trickle speed 1 operates at 13 l/s (factory set)
- Boost 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

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

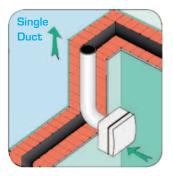
N.B timer adjustable from 0-30 mins

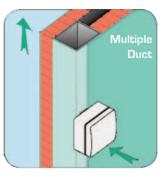
COMPLIES WITH

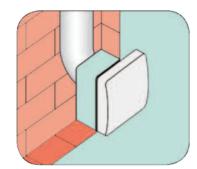
- Part L1A 2013 of Building Regulations for enhanced energy saving capability
- Part F 2013 of Building Regulations for reliable, efficient ventilation
- EU RoHS Directive Compliant.
- Complies with IEC60335-2-80, LVD2006/95/CE and EMC2014/30/UE (European Directive against radio interference and electro-magnetic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

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

Surface Mounted Installation







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



Elprex - ELP2204

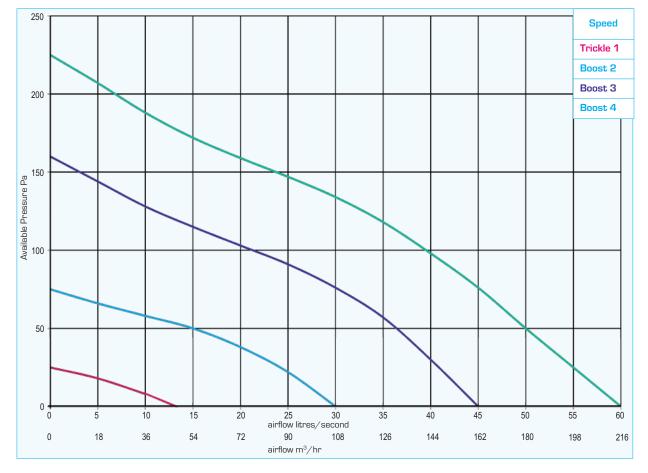
TECHNICAL CHARACTERISTICS												
Model		Airflow	ı l∕sec	Power - Watts dBA (@ 3m ir				in free fie	ld)			
IVIOUEI	Trickle 1	Boost 2	Boost 3	Boost 4	Trickle 1	Boost 2	Boost 3	Boost 4	Trickle 1	Boost 2	Boost 3	Boost 4
ELP2204	13	30	45	60	4.5	12.4	20	28	28	35	41	46

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	ſy				

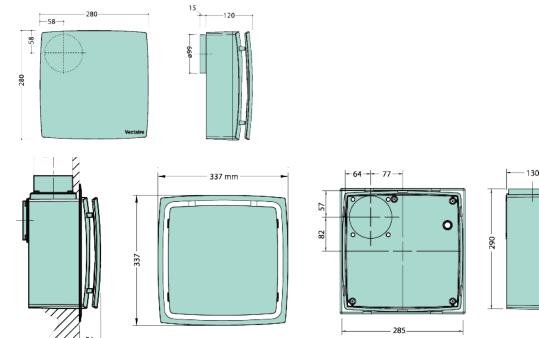
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Elprex - ELP2204

PERFORMANCE (curves are for guidance only)



DIMENSIONS - mm



Tel: +44(0)1494 522333 Fax: +44(0)1494 522337

Email: sales@vectaire.co.uk Web: www.vectaire.co.uk









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



GENERAL FEATURES

- exhausts directly to the outside or through medium length ducting up to 8m]
- sfp down to 0.37 W/I/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



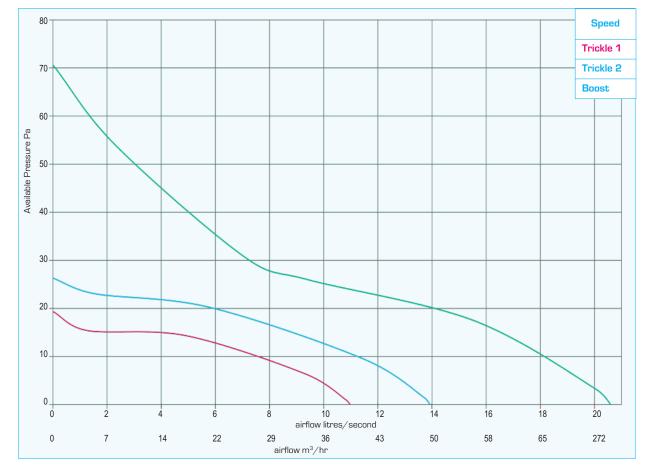
TECHNICAL CHARACTERISTICS									
N41-1	Д	irflow l/se	C	Po	ower - Wat	ts	dBA (@	9 3m in fre	e field)
Model	Trickle 1	Trickle 2	Boost	Trickle 1	Trickle 2	Boost	Trickle 1	Trickle 2	Boost
ES1003	11	14	21	3.8	5.3	7.5	16	19	29

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 [l/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 flow rate conditions						

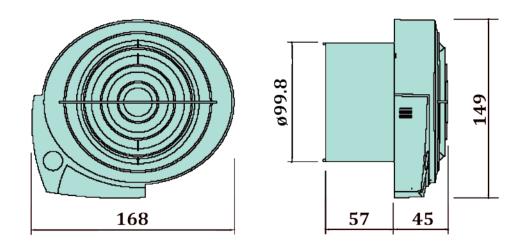
RESULTS for SAP CALCULATIONS ENERGY LEVEL PERFORMANCE - using flexible ducting only							
Unit Configuration	Specific Fan Power (W/I/s)	EST Best Practice Performance Compliant	Flow Rate (l⁄sec)				
In room - kitchen	0.57	Yes	13.0				
In room - wetroom	0.61	Yes	10.3				
Through wall - kitchen	0.37	Yes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



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 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 ducting)
- easy and economical to install and maintain
- suitable for toilets, shower-rooms, bathrooms, utility rooms and kitchens
- 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

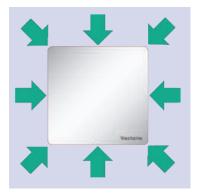
TECHNICAL FEATURES

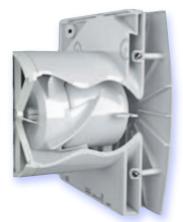
- shockproof, high quality technopolymer casing
- designed using latest wind tunnel technology and CFD simulations
- motor with thermal protection
- 43,000 hour life motors with maintenance free and long life ball bearings
- operates in ambient temperatures up to 40°C
- double insulated no earth required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

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 - 4"/10cm

- EL100 Standard
- EL100T with overrun Timer
- EL100HT with Humidistat and Timer
- EL100LV SELV low voltage
- EL100TLV SELV low voltage with
 Timer



MODELS AVAILABLE - 6"/15cm

- EL150 Standard
- EL150T with overrun Timer
- EL150HT with Humidistat and Timer

N.B timer adjustable from 3-25 mins

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

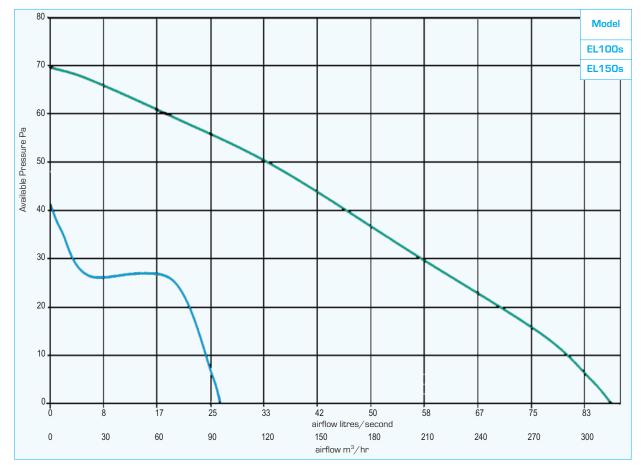
Email: sales@vectaire.co.uk Web: www.vectaire.co.uk

Elegance - EL100 and EL150

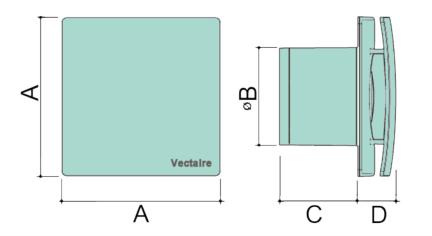


TECHNICAL CHARACTERISTICS							
Model	Airflow m ³ /hr	Airflow I/sec	Pressure - Pa	Power - Watts	dBA (@ 3m in free field)		
EL100s	90	25	40	14	31.4		
EL150s	315	87.5	71	25	43.9		

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



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.

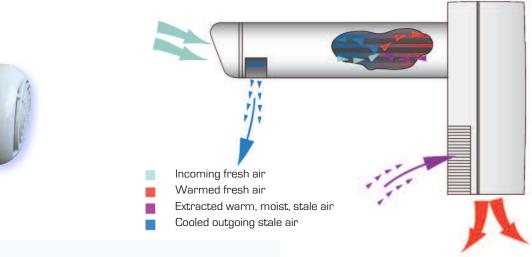
INTEGRAL FROST-STAT

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 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 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.

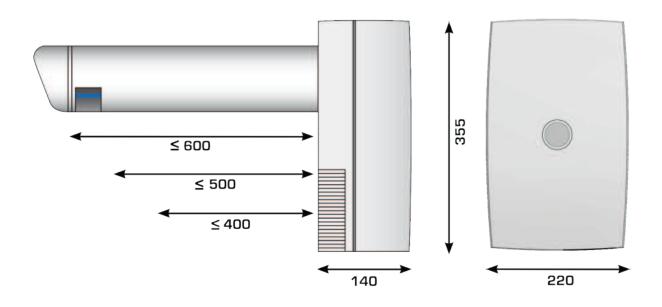
Heatrec 1003



TECHNICAL CHARACTERISTICS									
Model	А	irflow l/ se	С	Po	ower - Wat	ts	dBA (@	9 3m in fre	e field)
Woder	Trickle 1	Trickle 2	Boost	Trickle 1	Trickle 2	Boost	Trickle 1	Trickle 2	Boost
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
FLAT DUCTING -	VPFD VPFDS VPFDM	1500mm long 1500mm long 1500mm long	20 5 3
FLAT DUCTING	- 2m Length VPFD-2M VPFDS-2M VPFDM-2M	2000mm long 2000mm long 2000mm long	10 5 2
UNIVERSAL DU	СТ		
	VPFDS-UD	204 x 60	10
CONNECTOR			
	VPC VPCS VPCM	110 x 54 204 x 60 220 x 90	20 10 6
MOUNTING BRA	CKET		
	VPMB VPMBS VPMBM	110 x 54 204 x 60 220 x 90	10 10 10
90° HORIZONT/	AL BEND		
SP	VPHB VPHBS VPHBM	110 x 54 204 x 60 220 x 90	20 10 6
45° HORIZONT	AL BEND		
	VPHB45 VPHBS45 VPHBM45	110 x 54 204 x 60 220 x 90	20 10 6
	VPAHBS	204 x 60	10
90° VERTICAL	BEND		
	VPVB VPVBS VPVBM	110 x 54 204 x 60 220 x 90	20 10 6
45° VERTICAL	BEND		
	VPVB45 VPVBS45 VPVBM45	110 x 54 204 x 60 220 x 90	20 10 6
ADAPTOR ROU			
	VPA VPAS VPAM	100mm dia spigot 125mm dia spigot 150mm dia spigot	20 10 6
ADAPTOR ROU	ND TO FLAT - VI	ERTICAL BEND	
White = W/ Prov	VPAVB VPAVBS4 VPAVBS5 VPAVBS6	100mm dia spigot 100mm dia spigot 125mm dia spigot 150mm dia spigot T: Terracotta = TC	20 10 10 10
	2. 20ige - 00		

	Model	Size	Box Qty
ADAPTOR ROUN	D TO FLAT - VEF VPAVBSA4 VPAVBSA5 VPAVBSA6 VPAVBM4 VPAVBM5 VPAVBM6	RTICAL BEND - OFFSET S 100mm spigot 125mm spigot 150mm spigot 100mm spigot 125mm spigot 150mm spigot	SPIGOT 10 10 10 6 6 6
"T" PIECE	VPT VPTS VPTM	110 x 54 204 x 60 220 x 90	20 10 6
RECTANGULAR	VFD110/.5 VFD110/3 VFD204/.5 VFD204/3M VFD220/.5 VFD220/3	FING 110 x 54mm x .5m 110 x 54mm x 3m 204 x 60mm x .5m 204 x 60mm x 3m 220 x 90mm x .5m 220 x 90mm x 3m	1 1 1 1 1
	VPAWP VPAWPS VPAWPM		10 10 6
FIXED GRILLE W	VPFG	LAR SPIGOT AND FLYSO W, B, COT or TC 54mm duct size only)	20
GRAVITY GRILLI	VPGG (for 110mm x	GULAR SPIGOT W, B, COT or TC 54mm duct size only)	20
AIRBRICK ADAP	VPAB/AD	(VFPD only)	20
AIRBRICK	VPAB	W, B, COT or TC	20
ADAPTOR - 20	4мм x 60мм ('s') то 220мм x 90мм	1 ('M')
	VPAS-M	W, B, COT or TC	10
		Megaduct only	10
	СК		
	VPDAB	W, B, COT or TC	20
	PLT-DAB-10-V	WCB Email: sales@vecta	6 ire.co.uk



Accessories

Ducting and Ancillaries



SILENCER	Model	Size/Description	Box Qty
\sim	VPFDS-SIL.5 VPFDS-SIL1	204 x 60mm x .5m 204 x 60mm x 1m	1 1
	VPFDS-SIL	204 x 60mm x 1.5m	1
	VPFDM-SIL.5 VPFDM-SIL1		1 1
TAPE/ADHESIVE	S		
	PVCDT	PVC Duct Tape	1
	DDSeal MAS87	Duct Seal Intumescent Mastic	1 1
INTUMESCENT I	DUCT SLEEVES	FOR VFPD	
	VPFD-DS	110 x 54mm	1
	VPFDS-DS	204 x 60mm	1
	VPFDM-DS	220 x 90mm	1
INTUMESCENT I	FIRE SLEEVE		
	FS204/100	204 x60 x100mm	1
INTUMESCENT F			
INTOWESCENT P	FD4INT	4"/10cm	1
	FD5INT	5"/12cm	1
	FD6INT	6"/15cm	1
FIRE DAMPER -	FUSIBLE LINK FD4	4"/10cm	1
	FD4 FD5	5"/12cm	1
	FD6	6"/15cm	1
FIRE DAMPER			
	VRD4/FD VRD5/FD	4"/10cm 5"/12cm	1 1
	VRD6/FD	6"/15cm	1
DUCT SLEEVE			
	VRD4-DS	4"/10cm	1
	VRD5-DS VRD6-DS	5"/12cm 6"/15cm	1 1

DUCT JOINING

DW25N	Duct Wrap-1.2mx13m	1
PVCDT	PVC Duct Tape	1
DT75	Aluminium Foil Duct Tape	1
DDSeal	Duct Seal	1

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	Model	Size	Box Qty
TELESCOPIC DUC		0126	QLY
	VTD10-200	4"/10cm	10
(()	VTD12-200 VTD15-200	/	10 10
RIGID DUCT - 14		6"/15cm	10
	VRD4-350	4"/10cm	10
$\square 0$	VRD5-350	5"/12cm	10
	VRD6-350	6"/15cm	10
RIGID DUCT - 10			
\bigcirc	VRD4-1M VRD5-1M	4"/10cm 5"/12cm	3 3
\Box	VRD6-1M	6"/15cm	3
	RIGID DUCT -	2000мм	
	VRD4-2M	4"/10cm	3
	VRD5-2M VRD6-2M	5"/12cm 6"/15cm	3 3
RIGID DUCT CON	NECTOR	,	
$\langle \rangle$	VRD4/C	4"/10cm	10
	VRD5/C	5"/12cm	10
P	VRD6/C	6"/15cm	10
RIGID DUCT FIXIN			40
	VRD4/FB VRD5/FB	4"/10cm 5"/12cm	10 10
- FO	VRD6/FB	6"/15cm	10
	ECE		
A	VRD4/T	4"/10cm	10
20	VRD5/T VRD6/T	5"/12cm 6"/15cm	10 10
		,	
	VRD4/Y	4"/10cm	10
$\left(\cdot \right)$,	,	
RIGID DUCT 90° I	BEND		
60	VRDB90/4		10
	VRDB90/5 VRDB90/6		10 10
RIGID DUCT 45° I			10
RIGID DUCT 45°	VRDB45/4	4"/10cm	10
()	VRDB45/5		10
De			
ROUND GRILLE W			10
	T10	4"/10cm	10
	RED4/3P	10cm-7.5cm	10
	RED5/4P	12cm-10cm	10
(((1)))	RED6/4P RED6/5P	15cm-10cm 15cm-12cm	10 10
Le la	RED0/JP RED8/6P	20cm-15cm	1

Accessories

Ducting and Ancillaries



			Box
	Model	Size/Description	Qty
ADAPTOR PLAT		2 E-Smile _ E-Smile ECO	1 1 1 1 1 1
WALL VENT KIT	-		
	AWVK10/4 AWVK12/5 AWVK15/6		10 10 10
METAL DUCT JO	DINING PIECE		
Ø	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	TION		
	YP4 YP5 YP6 YP8	4"/10cm 5"/12cm 6"/15cm 8"/20cm	1 1 1 1
METAL "T" SEC			_
6610	TP4 TP5 TP6 TP8	4"/10cm 5"/12cm 6"/15cm 8"/20cm	1 1 1 1
METAL AIR VAL	VES WITH FIRE [DAMPER	
	VAV4+FD VAV5+FD VAV6+FD	4"/10cm 5"/12cm 6"/15cm	1 1 1
WORM DRIVE C	LIPS		
	WDC4 WDC5 WDC6 WDC8 WDC10 WDC12/16	4"/10cm 5"/12cm 6"/15cm 8"/20cm 10"/25cm 12"-16"	1 1 1 1 1

	Model	Size	Box Qty
WALL COWLS			
	VWC	4"-6"	1
	VWC4	4"/10cm	1
(1)	VWC5	5"/12cm	1
U_	VWC6	6"/15cm	1
PLASTIC FIXED	GRILLES		
	FG4	4"/10cm	1
	FG5	5"/12cm	1
	FG6	6"/15cm	1
PLASTIC FIXED	GRILLES WITH	FLYSCREEN	
	FG4F	4"/10cm	1
	FG5F	5"/12cm	1
	FG6F	6"/15cm	1
PLASTIC GRAVIT	TY GRILLES		
	GG4	4"/10cm	1
12	GG5	5"/12cm	1
	GG6	6"/15cm	1
NB plactic grille	e available in•	M/hite = M/ Brown = B	

N.B plastic grilles available in: White = W: Brown = B: Beige - COT: Terracotta = TC. Grilles will be supplied in white unless requested otherwise at time of ordering

IN WALL ATTENUATORS



WALL TERMINATION KITS

ROOF TERMINATION KITS

VAV6

VCT4

VCT4P

VCT5P

VCT6P

VIWA4 VIWA4C VIWA4QF	4"/10cm - with grille 4"/10cm - with cowl 4"/10cm- with quickfic.cowl	1 1 1
VIWA5 VIWA5C VIWA5QF	5"/12cm- with grille 5"/12cm - with cowl 5"/12cm- with quick fit cowl	1 1 1
ION KITS		
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 for internal installation	1
VWTC6	6"/15cm - as VWTC4	1
ION KITS		
RTK4	4"/10cm - Kit	1
RT4	4"/10cm - Cowl	1
VES		
VAV4	4"/10cm	1
VAV5	5"/12cm	1

CONDENSATION TRAPS

PLASTIC AIR VALVES

Per	

4"/10cm	1
4"/10cm- with overflow	1
5"/12cm- with overflow	1
6"/15cm- with overflow	1

6"/15cm

1

Accessories

Ducting and Ancillaries



	Model	Size dia	Size length	Box Qty
PLASTIC FLEXIB	LE DUCTING			
	VFD4/3	4"/10cm	3m	12
	VFD4/6	4"/10cm	6m	6
	VFD4/10	4"/10cm	10m	2
	VFD5/3	5"/12cm	Зm	6
	VFD5/6	5"/12cm	6m	1
Story and	VFD6/3	6"/15cm	3m	4
	VFD6/6	6"/15cm	6m	1
	VFD6/10	6"/15cm	10m	1
	VFD8/3	8"/20cm	Зm	1
	VFD8/6	8"/20cm	6m	1
	VFD10/3	10"/25cm	Зm	1
	VFD10/6	10"/25cm	6m	1
	VFD315/3 VFD315/6 VFD315/10	12"/31.5cm 12"/31.5cm 12"/31.5cm	6m	1 1 1

INSULATED ALUMINIUM FLEXIBLE DUCTING

VFD4/10INS 4"/10cm	10m	1
VFD5/10INS 5"/12cm	10m	1
VFD6/10INS 6"/15cm	10m	1
VFD8/10INS 8"/15cm	10m	1

ALUMINIUM FLEXIBLE DUCTING

VFD4/10AL	4"/10cm	10m	1
VFD5/10AL	5"/12cm	10m	1
VFD6/10AL	6"/15cm	10m	1

ACOUSTIC ALUMINIUM FLEXIBLE DUCTING

VFD4/10AC	4"/10cm	10m	1
VFD5/10AC	5"/12cm	10m	1
VFD6/10AC	6"/15cm	10m	1
VFD8/10AC	8"/15cm	10m	1

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Vectaire Ltd reserves the right to alter specifications as part of its policy of continuous development