## **VENTILATION**

# FOR THE BUILT ENVIRONMENT

low energy environmentally friendly economical



Uniclass L7534

(57.7)



## Whole House Mechanical Ventilation MVHR, MEV, dMEV







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

- For wall or loft installation in homes and offices
- Midi BY-AT with integral acoustic attenuation very low noise levels
- Summer bypass and frost-stat
- Up to 94% heat exchange efficiency sfp from 0.50 W/l/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

## MaxiPlus-BY & MaxiPlus/BY/AT (MVHR) - Pages 24 & 28

- For wall or loft installation in homes and offices
- MaxiPlus/ 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/l/s
- Up to 230 l/s at 50Pa max 238 l/s capacity
- Models with integral humidistat
- Commissioned via integral LCD or remote LCD commissioning unit

## EV0250 (MVHR) - Pages 34

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

## -EVO220 (MVHR) - Page 38

- 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 42

- For in-line installation in homes and offices
- Summer bypass and frost-stat
- Up to 88% heat exchange efficiency sfp from 0.65 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 46

- For in-line installation in multi-occupancy establishments
- With and without summer bypass and frost-stat
- Up to 80% heat exchange efficiency sfp from 0.87 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 50

- 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











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## Purge Ventilation - Page 54

- 2 capacities for in-line installation in residential dwellings
- For rapid purge ventilation and tackling overheating issues
- Purge Box 100 up to100 l/s at 50Pa max 200 l/s capacity sfp from 0.20 W/l/s
- Purge Box 200 up to 233 l/s at 50Pa max 250 l/s capacity sfp from 0.27 W/l/s
- Use as stand alone units or with MVHR and MEV systems

## MBOX125/2DC-B//MBOX200/2DC (MEVs)-Pages 58 & 62

- For in-line installation in homes and offices
- MBOX125/2DC-B ultra low profile 184mm deep
- Up to 97 l/s at 50Pa max 108 l/s capacity//Up to 233 l/s at 50Pa max 251 l/s capacity
- sfp from 0.20 W/I/s//sfp from 0.27 W/I/s
- Optional purge cable factory set
- Available with 204mm x 60mm spigot//Available with 220mm x 90mm spigot
- · Continuous running choice of trickle and boost speeds

## Elegance (dMEV) EL1003 & EL1203 - Pages 66 & 70

- EL1003 4"/10cm, EL1203 5"/12cm
- Continuous running 3 speed (2 trickle speeds and boost) axial fans
- · For installation in any domestic wet room
- Up to 26.9 litre/sec 44 litre/sec capacity sfp from 0.09 W/I/s
- AC motor versions in 100mm dia and 150mm dia available Page 86

## 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 any domestic wet room
- Up to 27.8 litre/sec capacity sfp from 0.14 W/l/s

## 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/I/s

## E-Smile (dMEV) - Page 82

- Continuous running 3 speed (2 trickle speeds and boost) axial fan
- · For installation in any domestic wet room
- Up to 21 litre/sec capacity, sfp from 0.37 W/l/s

## Heatrec 1003 - 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

#### Fire Rated Air Bricks - Page 92

- High performance no-combustible terminals (Approved Document B (fire safety) Volume 1: Dwellings, 2019 Edition
- Manufactured from 0.9mm electro-galvanised sheet steel, fire class A1
- Corrosion resistant-salt spray tested to ISO9227:2022, ASTMB117-19
- Polyester powder coating meeting EN13501-1 classification A2-s1,d0
   Complies with Approved Document F Volume1, 2021 edition
- Custom shares and size sucilable
  - Custom shapes and sizes available

## **MVHR**



## Vertical Models - features and overview

		Midi			Maxi			Maxi Plus	6
	S*	Н*	AT*	S*	Н*	AT*	S*	Н*	AT*
Automatic Summer Bypass	1	1	1	1	1	1	1	1	1
Automatic Frost Protection	1	1	1	1	1	/	1	1	/
Filters	1	/	1	1	1	/	1	1	1
Delay Timer	/	/	/	/	/	/	/	/	/
Purge Speed (factory set)	/	/	/	1	/	/	1	/	/
Purge Speed Timer	/	/	/	/	/	/	/	/	1
Built-in Humidistat	×	1	on request	×	1	on request	×	1	on request
Universal Handing (non-humidistat models)	1	×	/	1	×	/	1	×	/
Very low noise levels	1	1	1	1	1	/	1	1	/
Max Airflow at 50Pa - I/s	95	95	95	163	163	163	230	230	230
Max Wet Rooms - Kitchen + SAP2009/2012/10	K+6/4/4	K+6/4/4	K+6/4/4	K+7/7/7	K+7/7/7	K+7/7/7	K+7/7/7	K+7/7/7	K+7/7/7
SFP w/l/s SAP2009/2012/10	.50/.51/.51	.50/.51/.51	.50/.51/.51	.40/.45/.45	40/.45/.45	40/.45/.45	.46/.47/.47	.46/.47/.47	46/47/47
% Heat Recovery SAP2009/2012/10	94/93/93	94/93/93	94/93/93	92/92/92	92/92/92	92/92/92	89/89/89	89/89/89	89/89/8
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 56	64 x 382	648 x 595 x 395	754 x 6!	54 x 535	802 x 703 x 560	754 x 6!	54 x 535	802 x 703 x 560
Weight kg	2	.4	29	3	17	42	37		42
Approximate Mass kg	2	4	29	3	37	42	2 37		42
Enhanced Acoustic Attenuation	×	×	/	×	×	<b>√</b>	×	×	/

S\* - standard models

H\* - models with integral humidistat

AT\* - models with integral acoustic attenuation

## **MVHR**



## Horizontal Models - features and overview

	EVO	250	EVO	220	EVO	350	Stu	ıdio	M	lini
	S*	H*	S*	H*	S*	H*	S*	H*	S*	H*
Automatic Summer Bypass	1	<b>✓</b>	1	1	1	1	1	1	1	1
Automatic Frost Protection	1	<b>√</b>	1	<b>✓</b>	1	<b>✓</b>	1	1	1	1
Filters	1	1	1	1	1	/	1	1	1	1
Delay Timer	1	<b>✓</b>	1	1	1	<b>✓</b>	1	/	1	<b>✓</b>
Purge Speed (factory set)	1	✓	1	1	1	1	1	1	1	1
Purge Speed Timer	1	<b>✓</b>	1	1	1	1	1	1	1	1
Built-in Humidistat	×	<b>✓</b>	×	1	×	1	×	1	×	1
Universal Handing (non-humidistat models)	1	x	×	×	1	×	×	×	×	×
Very low noise levels	1	<b>✓</b>	1	1	1	1	1	1	1	1
Max Airflow at 50Pa - I/s	80	80	75	75	107	107	55	55	30	30
Max Wet Rooms - Kitchen+ SAP2009/2012/10	K+6/4/4	K+6/4/4	K+-/5	K+-/5	K+7/5/5	K+7/5/5	K+5/3/3	K+5/3/3	K+2/1/1	K+2/1/1
SFP w/l/s SAP2009/2012/10	.0.70/ 0.75/0.75	0.70/ 0.75/0.75	-/0.55/-	-/0.55/-	.65/ .72/.72	.65/ .72/.72	.87/ .93/.93	.87/ .93/.93	1.11/ 1.4/1.4	1.11/ 1.4/1.4
% Heat Recovery SAP2009/2012/10	88/87/ 87	88/87/ 87	-/87/-	-/87/-	88/87/ 87	88/87/ 87	80/79/ 79	80/79/ 79	83/82 /82	83/82 /82
Duct Size - Ømm	20A	x 60	18	25	20	00	12	25	18	25
or mm x mm Wired Remote						-		_		-
Control (optional)	<b>/</b>	<b>\</b>	<b>/</b>		<b>/</b>	<b>/</b>	<b>/</b>	<b>/</b>	<b>/</b>	
External Condensate	1	1	1	/	1	/	1	<b>✓</b>	1	<b>✓</b>
Size mm W x H x D	750 x 650 x 250		634 x 5	634 x 554 x 220		54 x 355	552 x 534 x 220		400 x40	00 x 220
Weight kg	21		22		25		17		9	
Approximate Mass kg	2	1	22		25		17		9	

S\* - standard models H\* - models with integral humidistat

## **Vertical MVHR**



## Midi, Maxi and Maxi Plus

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, multi-occupancy establishments and other commercial properties.

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

## How They Work

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

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

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

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

## Summer Bypass

All models incorporate a summer bypass which allows the 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°C and -3°C.

## **Humidity Control**

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

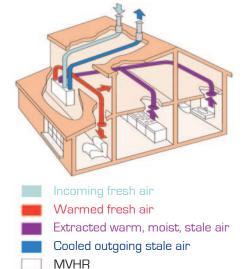
#### "Super Silent"

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

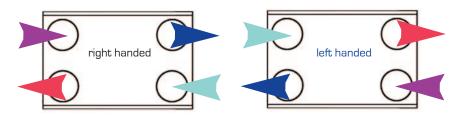
### LCD Control

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

## TYPICAL INSTALLATION



## 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
  - data
  - 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

## Midi









## Midi

- with summer bypass and frost-stat
- efficient, low energy solution to controlling condensation and pollution in residential properties up to 170m<sup>2</sup>
- 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
- manufactured in UK to ISO 9001:2015 and 14001:2015
- accurate commissioning via optional integral LCD or remote LCD commissioning unit

## Midi

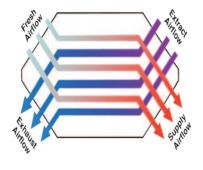


#### **GENERAL FEATURES**

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



#### **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 cable connection on circuit board (for optional purge facility)
- · 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 (humidity threshold 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
  - CO<sub>2</sub> detector
  - home automation system
- relay for external pre-heater
- 3 speed selector switch
- optional remote purge cable factory connected adjustable over-run timer from 0 to 250 minutes, Pre-set to 15 minutes (adjustable at factory)
- 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**

- Building Regulations for enhanced energy saving capability
- 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 9001:2015 and 14001:2015
- For installation in any domestic wet room
- CE marked
- SAP PCDB Listed

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

## MODELS AVAILABLE:

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

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





TECHNICAL CHARACTERISTICS											
Model		А	irflow I/se	ec			Total	Power - V	Vatts		Operating Current
Iviodei	100%	80%	60%	40%	20%	100%	80%	60%	40%	20%	(Amps)
Midi	101	79	58	36	14	120	69	31	11	2.2	1.21

N	<b>1</b> idi	S	Sound Power Levels, L <sub>w</sub> (dB) - Octave Bands Frequency Hz.								
Curve Ref		63	125	250	500	1k	2k	4k	8k	dBA @ 3m	
4.000/	Extract	65	61	58	48	41	34	26	23		
100% [101 l/sec]	Supply	70	74	69	60	57	50	44	43		
[1011/000]	Breakout	56	50	55	49	44	42	37	32	33.9	
000/	Extract	61	56	53	45	37	29	21	16		
80% (79 l/sec)	Supply	66	70	65	55	53	44	39	36		
(70 % 000)	Breakout	52	51	50	46	41	34	32	28	29.9	
COn/	Extract	55	49	45	39	29	19	10	7		
60% (58 l/sec)	Supply	60	62	56	47	45	34	27	21		
(33 % 333)	Breakout	47	51	46	43	38	27	25	24	26.6	
<b>40</b> 0/	Extract	47	38	38	32	17	8	3	6		
40% (36 l/sec)	Supply	52	51	47	38	31	22	13	8		
(33 % 333)	Breakout	43	52	43	41	35	23	18	21	24.6	
000/	Extract	33	31	20	10	4	0	2	6		
20% (14 l/sec)	Supply	38	32	27	13	8	1	2	6		
[, 555]	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 Extract and Supply values are in-duct sound power levels

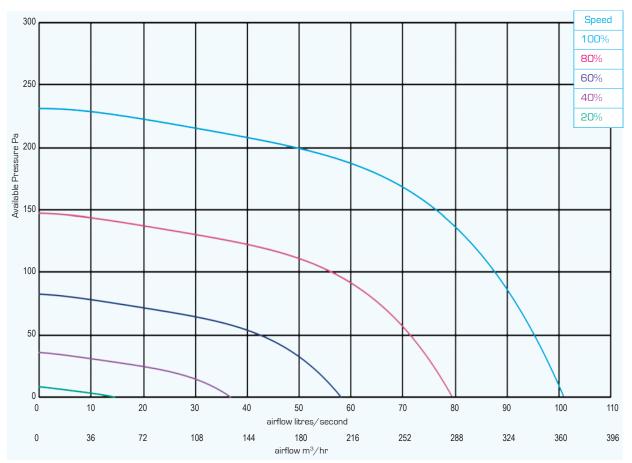
All the above data has been independently tested to BS EN ISO 3743-1:2010

RESULTS for SAP CALCULATIONS ENERGY LEVEL PERFORMANCE - using rigid ducting only											
	2009	) Data	2012	Data	SAP 10 Data						
Exhaust Terminal Configuration	Specific Fan Power (W/I/sec)	Heat Exchange Efficiency	Specific Fan Power (W/I/sec)	Heat Exchange Efficiency	Specific Fan Power (W/I/sec)	Heat Exchange Efficiency					
Kitchen + 1 additional wet room	0.50	94%	0.51	93%	0.51	93%					
Kitchen + 2 additional wet rooms	0.50	93%	0.61	91%	0.61	91%					
Kitchen + 3 additional wet rooms	0.55	92%	0.75	90%	0.75	90%					
Kitchen + 4 additional wet rooms	0.65	91%	0.92	89%	0.92	89%					
Kitchen + 5 additional wet rooms	0.76	89%	-	-	-	-					
Kitchen + 6 additional wet rooms 0.88 89%											
Figures at minimum flow rate conditions											

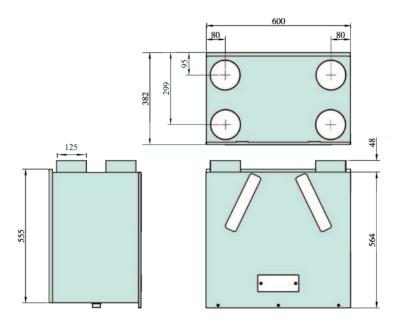




## PERFORMANCE (curves are for guidance only)



## DIMENSIONS - mm



Weight - 24 kg

**N.B** sufficient access for safe maintenance or removal following installation, MUST be provided for this product.

## Midi BY-AT

## vectaire

## 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
- manufactured in UK to ISO 9001:2015 and 14001:2015
- accurate commissioning via integral touch screen LCD

Page 12

## Midi BY-AT

# vectaire

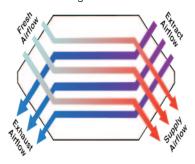
## with integral acoustic attenuation

#### **GENERAL FEATURES**

- extremely low noise levels
- up to 95 litre/sec at 50Pa max 101 litre/sec capacity
- sfp down to 0.50 W/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 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:**

- MidiBY-AT bypass, attenuation, universal, integral LCD
- MidiBYATH/LH bypass, attenuation, humidistat, left drain, integral LCD
- MidiBYATH/RH bypass, attenuation, humidistat, right drain, 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 cable connection on circuit board (for optional purge facility)
- · 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 (humidity threshold 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
  - CO<sub>2</sub> detector
  - home automation system
- relay for external pre-heater
- 3 speed selector switch
- optional remote purge cable factory connected adjustable over-run timer from 0 to 250 minutes, Pre-set to 15 minutes (adjustable at factory)
- holiday mode for reduced speeds when property is unoccupied (factory set option)
- run-time and power outage counters downloadable via QR code.

## **COMPLIES WITH**

- · Building Regulations for enhanced energy saving capability
- 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 9001:2015 and 14001:2015
- 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

## Midi-BY-AT



## with integral acoustic attenuation

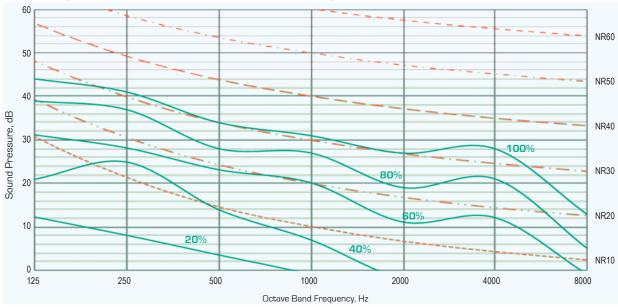
Midi-E	BY-AT	Sound	Power Le	evels, L <sub>w</sub> (	dB) - Oct	ave Band	ls Freque	ncy Hz.	Sound Pressure	Noise Rating based on
Curve Ref		125	250	500	1k	2k	4k	8k	dBA @ 3m	dB @ 1m
4000/	Extract	61	58	48	41	34	26	23		
100% (101 l/sec)	Supply	74	69	60	57	50	44	43		
[101] 300]	Breakout	52	49	42	39	35	36	21	28.3	34
80%	Extract	56	53	45	37	29	21	16		
(79 l/sec)	Supply	70	65	55	53	44	39	36		
(70 1/ 000)	Breakout	47	45	36	35	27	29	13	23.4	28
<b>CO</b> 0/	Extract	49	45	39	29	19	10	7		
60% (58 l/sec)	Supply	62	56	47	45	34	27	21		
[00 1/ 000]	Breakout	39	36	31	28	19	20	7	15.8	21
40%	Extract	38	38	32	17	8	3	6		
(36 l/sec)	Supply	51	47	38	31	22	13	8		
[00 1/ 000]	Breakout	29	33	22	15	6	5	6	9.8	15
20%	Extract	31	20	10	4	0	2	6		
[14 l/sec]	Supply	32	27	13	8	1	2	6		
[11/9 000]	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

Extract and Supply values are in-duct sound power levels

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	SAP 10 Data						
Exhaust Terminal Configuration	Specific Fan Power (W/I/sec)	Heat Exchange Efficiency	Specific Fan Power (W/I/sec)	Heat Exchange Efficiency	Specific Fan Power (W/I/sec)	Heat Exchange Efficiency					
Kitchen + 1 additional wet room	0.50	94%	0.51	93%	0.51	93%					
Kitchen + 2 additional wet rooms	0.50	93%	0.61	91%	0.61	91%					
Kitchen + 3 additional wet rooms	0.55	92%	0.75	90%	0.75	90%					
Kitchen + 4 additional wet rooms	0.65	91%	0.92	89%	0.92	89%					
Kitchen + 5 additional wet rooms	0.76	89%	-	-	-	-					
Kitchen + 6 additional wet rooms 0.88 89%											
Figures at minimum flow rate conditions											

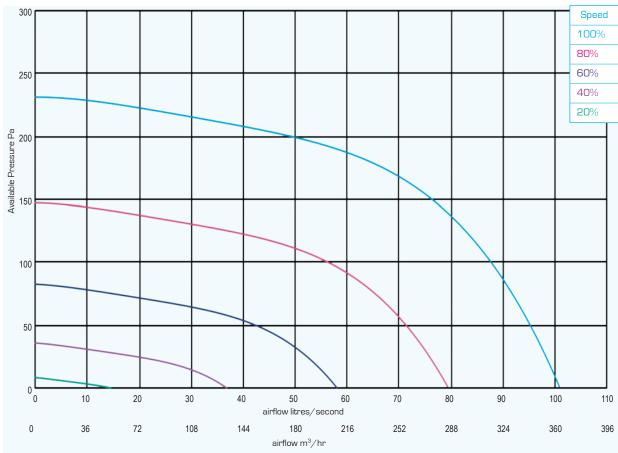
## Midi-BY-AT



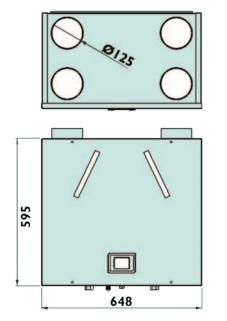
## with integral acoustic attenuation

TECHNICAL CHARACTERISTICS											
Model		А	irflow I/se	ec			Total	Power - \	Vatts		Operating  Current
iviodei	100%	80%	60%	40%	20%	100% 80% 60% 40% 20%					(Amps)
Midi-BY-AT	101	79	58	36	14	120	69	31	11	2.2	1.21

## PERFORMANCE (curves are for guidance only)



DIMENSIONS - mm





Weight - 29kg

**N.B** a clearance of 200 mm should be allowed on each side of the cabinet for access to the motors

## Maxi









## Maxi

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

- universal handing for models without humidistat
- very quiet
- low running costs
- complies with Building Regulations
   Parts L1A 2013 and F 2013
- manufactured in UK to ISO 9001:2015 and 14001:2015
- accurate commissioning via optional integral LCD or remote LCD commissioning unit

## Maxi

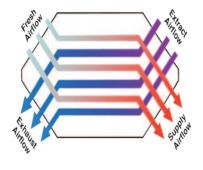


#### **GENERAL FEATURES**

- up to 163 litre/sec at 50Pa max 177 litre/sec capacity
- sfp down to 0.40 W/l/s
- summer bypass which allows the 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, backward 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 cable connection on circuit board (for optional purge facility)
- 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 (humidity threshold 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
  - CO<sub>2</sub> detector
  - home automation system
- relay for external pre-heater
- 3 speed selector switch
- optional remote purge cable factory connected adjustable over-run timer from 0 to 250 minutes, Pre-set to 15 minutes (adjustable at factory)
- 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**

- Building Regulations for enhanced energy saving capability
- 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 9001:2015 and 14001:2015
- CE marked
- SAP PCDB Listed

TYPICAL SPECIFICATION AVAILABLE AT

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

## MODELS AVAILABLE:

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

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





TECHNICAL CHARACTERISTICS											
Model		А	irflow I/se	ec			Total	Power - V	Vatts		Operating - Current
Model	100%	80%	60%	40%	20%	100%	80%	60%	40%	20%	(Amps)
Maxi	177	138	99	60	23	176	97	44	17	4	1.41

N	laxi	S	Sound Power Levels, L <sub>w</sub> (dB) - Octave Bands Frequency Hz.								
Curve Ref		63	125	250	500	1k	2k	4k	8k	dBA @ 3m	
4.000/	Extract	52	57	61	58	59	58	55	50		
100% (177 l/sec)	Supply	57	62	66	63	64	63	60	55		
[177 1/ 000]	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	
000/	Extract	42	47	48	46	47	45	40	32		
60% (99 l/sec)	Supply	47	52	53	51	52	50	45	37		
(55 1/ 555)	Breakout	51	54	54	51	41	35	26	22	33.2	
400/	Extract	36	40	40	37	38	36	30	18		
40% (60 l/sec)	Supply	41	45	45	42	43	41	35	23		
(55 1/ 555)	Breakout	48	51	46	40	29	25	19	22	24.2	
000/	Extract	27	29	27	22	22	19	8	10		
20% 23 l/sec)	Supply	32	34	32	27	27	24	15	17		
, 500)	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

Extract and Supply values are in-duct sound power levels

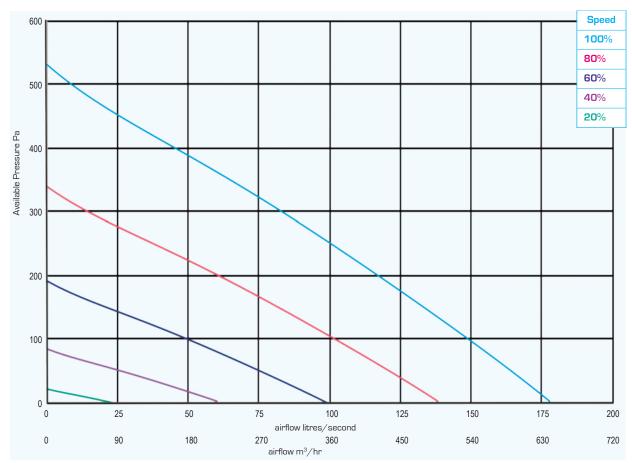
All the above data has been independently tested to BS EN ISO 3743-1:2010

RESULTS for SAP CALCULATIONS ENERGY LEVEL PERFORMANCE - using rigid ducting only										
	2009	Data	2012	Data	SAP 10 Data					
Exhaust Terminal Configuration	Specific Fan Power (W/I/sec)	Heat Exchange Efficiency	Specific Fan Power (W/I/sec)	Heat Exchange Efficiency	Specific Fan Power (W/I/sec)	Heat Exchange Efficiency				
Kitchen + 1 additional wet room	0.43	92%	0.45	92%	0.45	92%				
Kitchen + 2 additional wet rooms	0.40	92.%	0.47	92%	0.47	92%				
Kitchen + 3 additional wet rooms	0.42	92%	0.54	91%	0.54	91%				
Kitchen + 4 additional wet rooms	0.48	91%	0.66	90%	0.66	90%				
Kitchen + 5 additional wet rooms	0.55	91%	0.80	90%	0.80	90%				
Kitchen + 6 additional wet rooms	0.63	90%	0.99	89%	0.99	89%				
Kitchen + 7 additional wet rooms	0.76	90%	1.21	89%	1.21	89%				
Figures at minimum flow rate conditions										

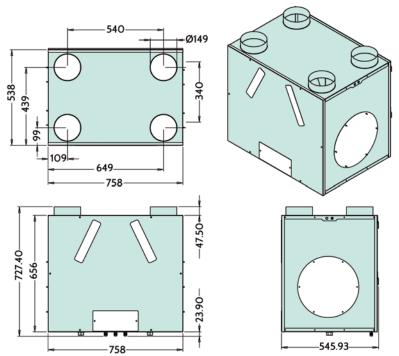




## PERFORMANCE (curves are for guidance only)



## DIMENSIONS - mm



Weight - 37kg

N.B a clearance of 200 mm should be allowed on each side of the cabinet for access to the motors

## Maxi-BY-AT

## vectaire

## 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
- manufactured in UK to ISO 9001:2015 and 14001:2015
- accurate commissioning via integral touch screen LCD

Page 20

## Maxi-BY-AT

# vectaire

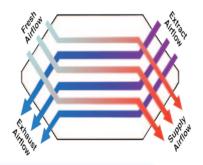
## with integral acoustic attenuation

#### **GENERAL FEATURES**

- extremely low noise levels
- up to 163 litre/sec at 50Pa max 177 litre/sec capacity
- sfp down to 0.40 W/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 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, backward 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 cable connection on circuit board (for optional purge facility)
- 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 (humidity threshold 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
  - CO<sub>2</sub> detector
  - home automation system
- relay for external pre-heater
- optional remote purge cable factory connected adjustable over-run timer from 0 to 250 minutes, Pre-set to 15 minutes (adjustable at factory)
- 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**

- Building Regulations for enhanced energy saving capability
- 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 9001:2015 and 14001:2015
- CE marked
- SAP PCDB Listed

TYPICAL SPECIFICATION AVAILABLE AT

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

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

## Maxi-BY-AT



## with integral acoustic attenuation

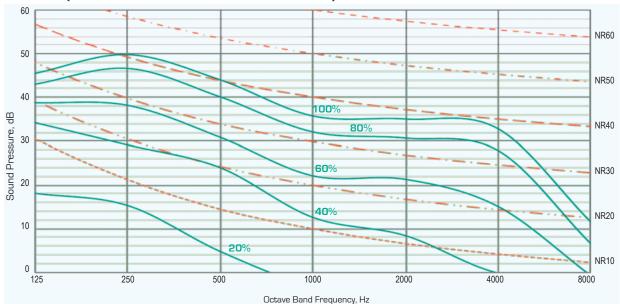
Maxi	BYAT	S	ound Power	r Levels, L <sub>w</sub>	(dB) - Octa	ave Bands F	requency H	lz.	Sound Pressure	Noise Rating based on
Curve Re	f	125	250	500	1k	2k	4k	8k	dBA @ 3m	
100%	Extract	60	64	51	46	38	30	24		
[177	Supply	70	74	69	59	53	46	42		
l/sec]	Breakout	54	58	52	44	43	41	20	36.8	41
80%	Extract	57	63	51	42	33	24	18		
(138	Supply	69	70	67	56	50	41	37		
l/sec]	Breakout	51	55	48	40	39	36	15	32.4	38
60%	Extract	52	51	39	30	21	8	6		
(99	Supply	68	63	54	53	44	38	36		
l/sec]	Breakout	47	46	39	30	29	23	7	23.4	29
40%	Extract	47	45	29	21	9	2	6		
(60	Supply	58	49	45	34	27	12	7		
l/sec]	Breakout	42	37	32	21	16	8	6	15.1	20
20%	Extract	32	28	13	11	0	2	6		
(23	Supply	39	31	27	14	5	2	6		
l/sec]	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

Extract and Supply values are in-duct sound power levels

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	SAP 10 Data						
Exhaust Terminal Configuration	Specific Fan Power (W/I/sec)	Heat Exchange Efficiency	Specific Fan Power (W/I/sec)	Heat Exchange Efficiency	Specific Fan Power (W/I/sec)	Heat Exchange Efficiency					
Kitchen + 1 additional wet room	0.43	92%	0.45	92%	0.45	92%					
Kitchen + 2 additional wet rooms	0.40	92.%	0.47	92%	0.47	92%					
Kitchen + 3 additional wet rooms	0.42	92%	0.54	91%	0.54	91%					
Kitchen + 4 additional wet rooms	0.48	91%	0.66	90%	0.66	90%					
Kitchen + 5 additional wet rooms	0.55	91%	0.80	90%	0.80	90%					
Kitchen + 6 additional wet rooms	0.63	90%	0.99	89%	0.99	89%					
Kitchen + 7 additional wet rooms	0.76	90%	1.21	89%	1.21	89%					
Figures at minimum flow rate conditions											

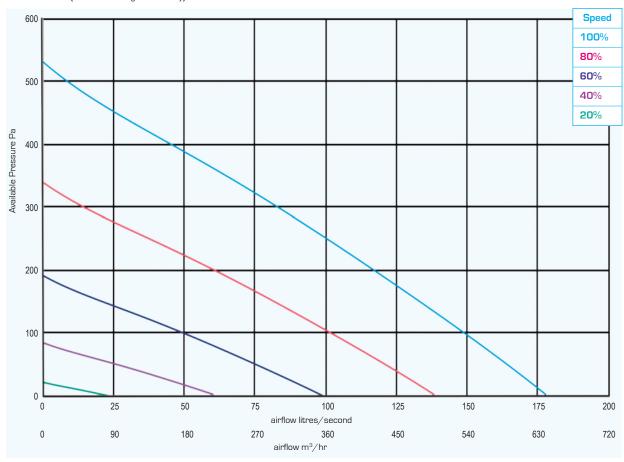




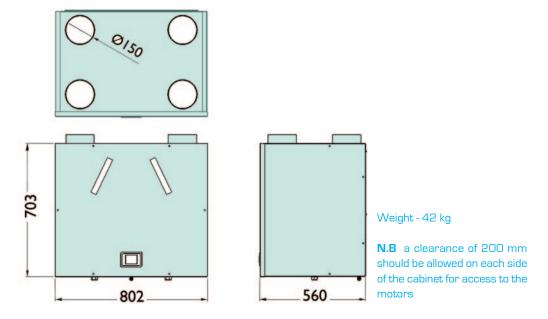
## with integral acoustic attenuation

TECHNICAL CHARACTERISTICS											
Model	Airflow I/sec						Total Power - Watts				
iviouei	100%	80%	60%	40%	20%	100%	80%	60%	40%	20%	- Current (Amps)
Maxi BY AT	177	138	99	60	23	176	97	44	17	4	1.41

## PERFORMANCE (curves are for guidance only)



DIMENSIONS - mm



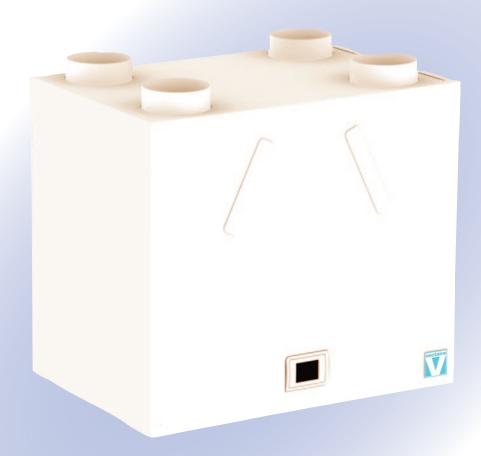
## Maxi Plus BY











## Maxi Plus BY

- with summer bypass and frost-stat
- efficient, low energy solution to controlling condensation and pollution in residential properties up to 400m<sup>2</sup>
- 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
- manufactured in UK to ISO 9001:2015 and 14001:2015
- accurate commissioning via optional integral LCD or remote LCD commissioning unit

## Maxi Plus BY

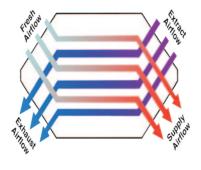


#### **GENERAL FEATURES**

- up to 230 litre/sec at 50Pa max 238 litre/sec capacity
- sfp down to 0.46 W/l/s
- summer bypass which allows the 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, backward 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 cable connection on circuit board (for optional purge facility)
- 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 (humidity threshold 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
  - CO<sub>2</sub> detector
  - home automation system
- relay for external pre-heater
- 3 speed selector switch
- optional remote purge cable factory connected adjustable over-run timer from 0 to 250 minutes, Pre-set to 15 minutes (adjustable at factory)
- 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**

- · Building Regulations for enhanced energy saving capability
- 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 9001:2015 and 14001:2015
- CE marked
- SAP PCDB Listed

TYPICAL SPECIFICATION AVAILABLE AT

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

## MODELS AVAILABLE:

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

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





TECHNICAL CHARACTERISTICS											
Model		ec	Total Power - Watts					Operating Current			
iviouei	100%	80%	60%	40%	20%	100%	80%	60%	40%	20%	(Amps)
Maxi Plus BY	238	186	135	84	35	355	184	85	32	8	2.81

Maxi I	Plus BY	S	Sound Pressure							
Curve Ref		63	125	250	500	1k	2k	4k	8k	dBA @ 3m
4.000/	Extract	67	63	66	64	64	61	58	54	
100% (238 l/sec)	Supply	72	68	71	69	69	66	63	59	
(2001) 000)	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
000/	Extract	58	52	53	51	51	48	43	35	
60% (135 l/sec)	Supply	63	57	58	56	56	53	48	40	
(100 1/ 000)	Breakout	58	54	57	45	39	37	31	25	32.8
400/	Extract	51	44	44	42	42	37	31	21	
40% (84 l/sec)	Supply	56	49	49	47	47	42	36	26	
(5 1 1/ 555)	Breakout	52	47	48	41	36	31	26	23	26.0
000/	Extract	40	32	30	29	27	24	14	16	
20% (35 l/sec)	Supply	45	37	35	34	32	29	22	25	
(35 I/ Sec)	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

Extract and Supply values are in-duct sound power levels

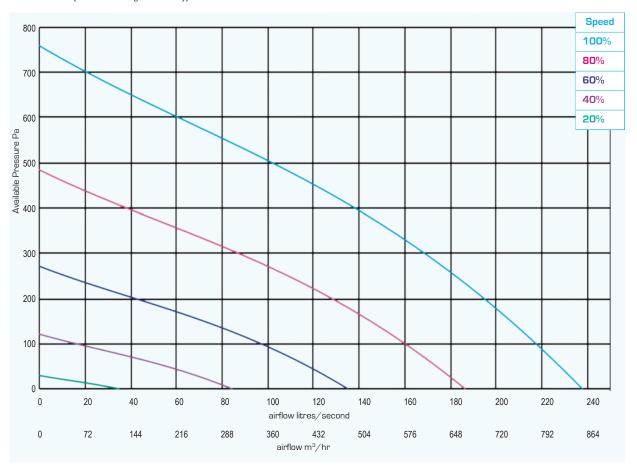
All the above data has been independently tested to BS EN ISO 3743-1:2010

RESULTS for SAP CALCULATIONS											
ENERGY LEVEL PERFORMANCE - u	sing rigid ducti	ng only									
	2009	Data	2012	Data	SAP 10 Data						
Exhaust Terminal Configuration	Specific Fan Power (W/I/sec)	Heat Exchange Efficiency	Specific Fan Power (W/I/sec)	Heat Exchange Efficiency	Specific Fan Power (W/I/sec)	Heat Exchange Efficiency					
Kitchen + 1 additional wet room	0.75	89%	0.56	89%	0.56	89%					
Kitchen + 2 additional wet rooms	0.56	89%	0.47	89%	0.47	89%					
Kitchen + 3 additional wet rooms	0.46	89%	0.50	88%	0.50	88%					
Kitchen + 4 additional wet rooms	0.46	88%	0.56	87%	0.56	87%					
Kitchen + 5 additional wet rooms	0.49	88%	0.66	86%	0.66	86%					
Kitchen + 6 additional wet rooms	0.55	87%	0.78	85%	0.78	85%					
Kitchen + 7 additional wet rooms	0.63	86%	0.94	84%	0.94	84%					
Figures at minimum flow rate conditions											

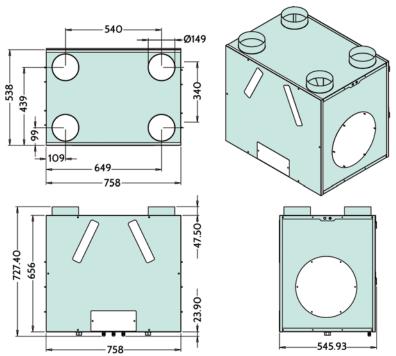
## Maxi Plus BY



### PERFORMANCE (curves are for guidance only)



## DIMENSIONS - mm



Weight - 37kg

**N.B** a clearance of 200 mm should be allowed on each side of the cabinet for access to the motors

## Maxi-Plus-BY-AT

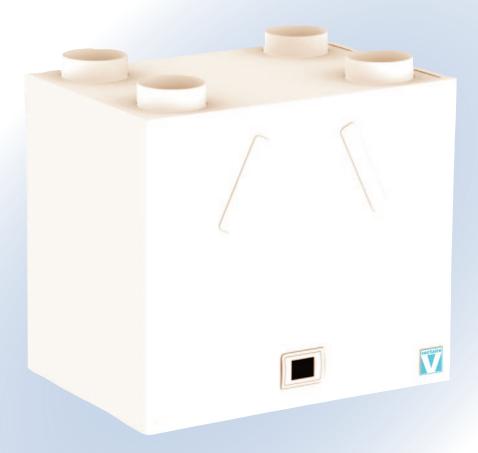
## vectaire

## 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
- manufactured in UK to ISO 9001:2015 and 14001:2015
- accurate commissioning via integral touch screen LCD

## Maxi-Plus-BY-AT

## vectaire

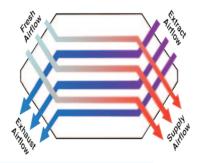
## with integral acoustic attenuation

#### **GENERAL FEATURES**

- extremely low noise levels
- Up to 230 litre/sec at 50Pa max 238 litre/sec capacity
- sfp down to 0.46 W/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 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, backward 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,

#### **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 cable connection on circuit board (for optional purge facility)
- 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 (humidity threshold 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
  - CO<sub>2</sub> detector
  - home automation system
- relay for external pre-heater
- 3 speed selector switch
- optional remote purge cable factory connected adjustable over-run timer from 0 to 250 minutes, Pre-set to 15 minutes (adjustable at factory)
- 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**

- · Building Regulations for enhanced energy saving capability
- 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 9001:2015 and 14001:2015
- CE marked
- SAP PCDB Listed

TYPICAL SPECIFICATION AVAILABLE AT

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

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

## Maxi-Plus-BY-AT



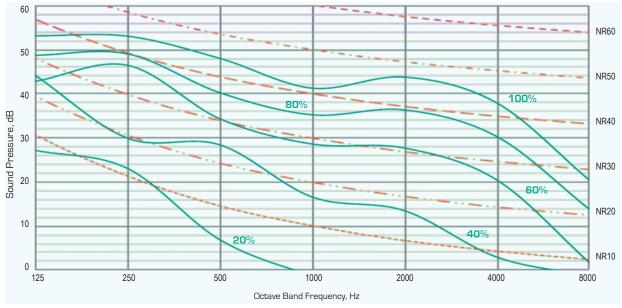
## with integral acoustic attenuation

Maxi Plu	Maxi Plus BY AT		Power Le	evels, L <sub>w</sub> (	[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	
4.000/	Extract	61	63	57	49	43	34	28			
100% (238 l/sec)	Supply	75	79	74	66	63	52	52			
[200 ]/ 300]	Breakout	61	61	56	49	52	46	29	41.1	47	
80%	Extract	57	59	51	44	37	28	23			
(186 l/sec)	Supply	71	71	66	60	58	46	47			
[1001/300]	Breakout		57	48	43	44	38	22	34.9	40	
60%	Extract	51	55	45	36	27	15	8			
(135 l/sec)	Supply	64	68	60	51	48	34	29			
[1001/300]	Breakout	51	54	42	37	36	28	10	28.9	37	
40%	Extract	49	44	35	26	17	4	6			
(84 l/sec)	Supply	59	52	48	41	36	19	12			
[0+1/300]	Breakout	52	38	36	25	21	11	7	20.7	26	
20%	Extract	36	36	28	12	3	2	6			
35 l/sec)	Supply	42	41	31	21	12	2	6			
00 1/ 000	Breakout	35	31	15	7	1	3	7	5.8	12	

The breakout dB(A) sound pressure values are given for hemispherical free field propagation at a distance of 3m from the unit Extract and Supply values are in-duct sound power levels

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	SAP 10 Data						
Exhaust Terminal Configuration	Specific Fan Power (W/I/sec)	Heat Exchange Efficiency	Specific Fan Power (W/I/sec)	Heat Exchange Efficiency	Specific Fan Power (W/I/sec)	Heat Exchange Efficiency					
Kitchen + 1 additional wet room	0.75	89%	0.56	89%	0.56	89%					
Kitchen + 2 additional wet rooms	0.56	89%	0.47	89%	0.47	89%					
Kitchen + 3 additional wet rooms	0.46	89%	0.50	88%	0.50	88%					
Kitchen + 4 additional wet rooms	0.46	88%	0.56	87%	0.56	87%					
Kitchen + 5 additional wet rooms	0.49	88%	0.66	86%	0.66	86%					
Kitchen + 6 additional wet rooms	0.55	87%	0.78	85%	0.78	85%					
Kitchen + 7 additional wet rooms	0.63	86%	0.94	84%	0.94	84%					
Figures at minimum flow rate conditions											

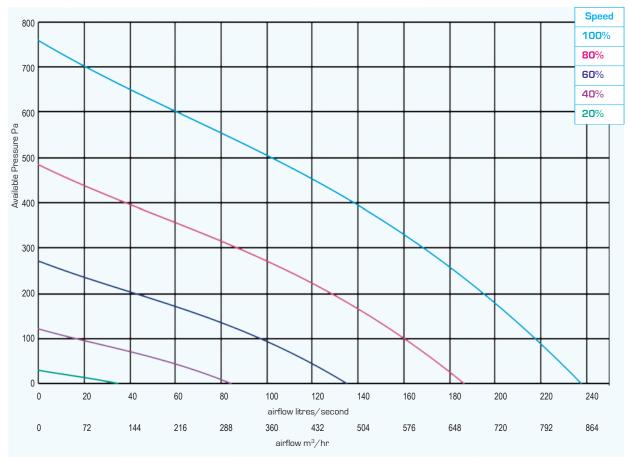




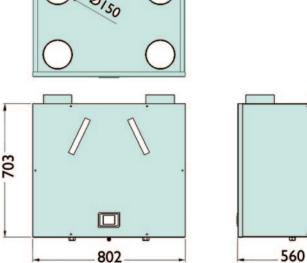
## with integral acoustic attenuation

TECHNICAL CHARACTERISTICS											
Model	Airflow I/sec						Total Power - Watts				
Iviouei	100%	80%	60%	40%	20%	100%	80%	60%	40%	20%	- Current (Amps)
Maxi Plus BY AT	238	186	135	84	35	355	184	85	32	8	2.81

## PERFORMANCE (curves are for guidance only)



**DIMENSIONS - mm** 



Weight - 42kg

N.B a clearance of 200 mm should be allowed on each side of the cabinet for access to the motors

## Horizontal MVHR



## EVOs, Mini and Studio

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

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

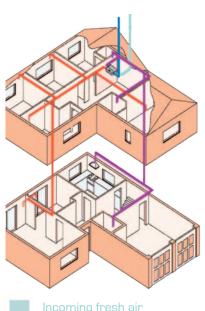
The integral frost-stat proportionally reduces intake motor speed as the temperature falls. This stops the ingress of cold air and consequently the removal of warm air making sure that the ambient remains comfortable. It is activated when the outside temperature is between +8°C and -3°C.

## **Humidity Control**

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

#### LCD Control

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

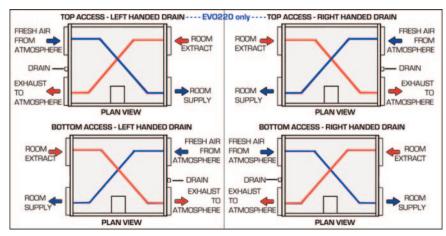


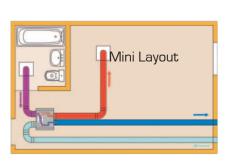


Extracted warm, moist, stale air

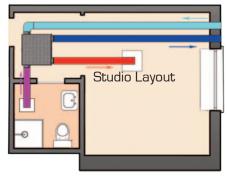
Cooled outgoing stale air

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





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

## 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.



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

## EV0250









## EV0250DC

- with summer bypass and frost-stat
- efficient, low energy solution to controlling condensation and pollution in residential properties up to 150m<sup>2</sup>
- 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
- manufactured in UK to ISO 9001:2015 and 14001:2015
- accurate commissioning via remote LCD commissioning unit

## EV0250

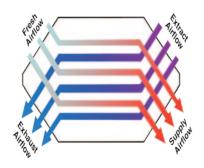


#### **GENERAL FEATURES**

- up to 80 litre/sec at 50Pa max 85 litre/sec capacity
- sfp down to 0.70 W/l/s
- summer bypass which allows the 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:

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

#### **CONTROL FEATURES - STANDARD**

- independent variable speed adjustment for each motor for trickle, boost and purge speeds.
- adjustable boost speed over-run timer from 0 to 90 minutes.
- adjustable boost speed delay from 0 to 5 minutes
- remote purge cable connection on circuit board (for optional purge facility)
- · 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 (humidity threshold 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
  - CO<sub>2</sub> detector
  - home automation system
- · relay for external pre-heater
- 3 speed selector switch
- optional remote purge cable factory connected adjustable over-run timer from 0 to 250 minutes, Pre-set to 15 minutes (adjustable at factory)
- 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

- Building Regulations for enhanced energy saving capability
- 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 9001:2015 and 14001:2015
- CE marked
- SAP PCDB Listed

TYPICAL SPECIFICATION AVAILABLE AT

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

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





TECHNICAL CHARACTERISTICS											
Model		А	irflow I/se	ec		Total Power - Watts					Operating - Current
iviodei	100%	80%	60%	40%	20%	100%	80%	60%	40%	20%	(Amps)
EV0250	85	67	48	30	12	101	53	23	9	2	0.93

EV	D250	S	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	
(37 1/ 333)	Breakout	62	55	50	44	36	27	21	8	28.7
000/	Extract	54	51	51	52	49	46	43	31	
60% (48 l/sec)	Supply	59	56	56	57	54	51	48	36	
[40 1/ 000]	Breakout	57	49	43	38	29	20	11	< 5	22.4
400/	Extract	46	44	43	42	40	36	31	17	
40% (30 l/sec)	Supply	51	49	48	47	45	41	36	22	
(00 1/ 000)	Breakout	49	42	35	28	20	10	< 5	< 5	14.1
000/	Extract	33	33	29	28	24	20	5	3	
20% (12 l/sec)	Supply	38	38	34	33	29	25	10	8	
	Breakout	36	31	21	14	< 5	< 5	< 5	<5	< 10.0

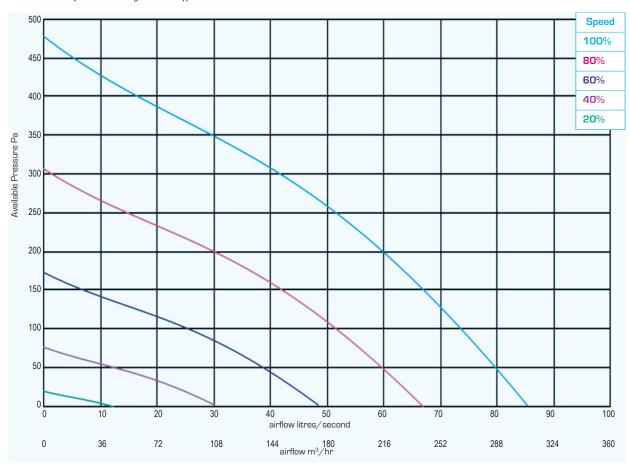
The breakout dB(A) sound pressure values are given for hemispherical free field propagation at a distance of 3m from the unit Extract and Supply values are in-duct sound power levels

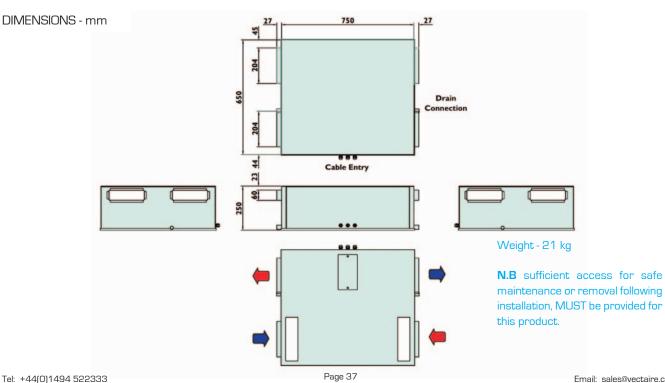
RESULTS for SAP CALCULATIONS ENERGY LEVEL PERFORMANCE - using rigid ducting only										
	2009	Data	2012	Data	SAP 10 Data					
Exhaust Terminal Configuration	Specific Fan Power (W/I/sec)	Heat Exchange Efficiency	Specific Fan Power (W/I/sec)	Heat Exchange Efficiency	Specific Fan Power (W/I/sec)	Heat Exchange Efficiency				
Kitchen + 1 additional wet room	0.70	88%	0.75	87%	0.75	87%				
Kitchen + 2 additional wet rooms	0.72	87%	0.89	86%	0.89	86%				
Kitchen + 3 additional wet rooms	0.82	87%	1.00	85%	1.00	85%				
Kitchen + 4 additional wet rooms	0.99	86%	1.37	84%	1.37	84%				
Kitchen + 5 additional wet rooms 1.01 85%										
Kitchen + 6 additional wet rooms	1.35	84%								
Figures at minimum flow rate conditions										

# EV0250



#### PERFORMANCE (curves are for guidance only)



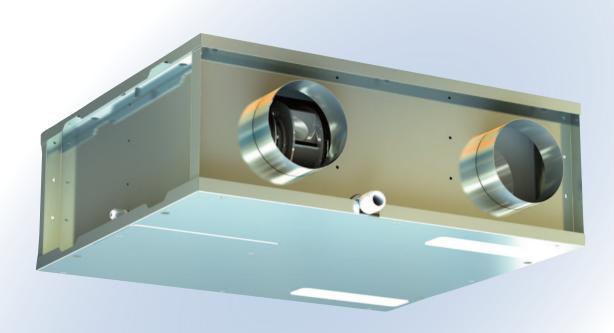


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# EV0220







#### 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
- manufactured in UK to ISO 9001:2015 and 14001:2015
- accurate commissioning via remote LCD commissioning unit

## EV0220

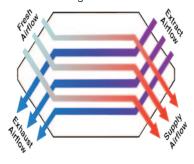


#### **GENERAL FEATURES**

- up to 70 litre/sec at 50Pa max 75 litre/sec capacity
- sfp down to 0.55 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-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
- EVO220DC/TALBY top access, left drain, bypass
- EVO220DC/TARBY top access, right 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 cable connection on circuit board (for optional purge facility)
- · 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 (humidity threshold 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
- optional remote purge cable factory connected adjustable over-run timer from 0 to 250 minutes, Pre-set to 15 minutes (adjustable at factory)
- 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**

- Building Regulations for enhanced energy saving capability
- 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 9001:2015 and 14001:2015
- 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		А	rflow I/se	ec		Total Power - Watts					Operating	
Iviouei	100%	80%	60%	40%	20%	100%	80%	60%	40%	20%	Current ( (Amps)	
EVO220DC	75	58	42	26	10	96	52	26	11	5	0.93	

EVO	220DC	S	Z.	Sound Pressure						
Curve Ref		63	125	250	500	1k	2k	4k	8k	dBA @ 3m
4000/	Extract	63	62	63	64	61	59	58	49	
100% (75 l/sec)	Supply	68	67	68	69	66	64	63	54	
(70 1/ 000)	Breakout	66	60	55	50	41	33	26	21	34.0
000/	Extract	59	58	58	58	56	53	51	41	
80% (58 l/sec)	Supply	64	63	63	63	61	58	56	46	
(32 % 333)	Breakout	62	56	50	44	36	27	19	15	28.9
000/	Extract	54	53	52	52	49	47	43	32	
60% (42 l/sec)	Supply	59	58	57	57	54	52	48	37	
(12 1/ 000)	Breakout	57	51	44	38	29	21	11	9	23.2
400/	Extract	47	47	45	44	41	38	32	19	
40% (26 l/sec)	Supply	52	52	50	49	46	43	37	24	
(=2 % 555)	Breakout	50	45	37	30	21	12	7	6	16.2
000/	Extract	37	40	36	35	29	25	18	11	
20% (10 l/sec)	Supply	42	45	41	40	34	30	23	16	
( / 555)	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 from the unit Extract and Supply values are in-duct sound power levels

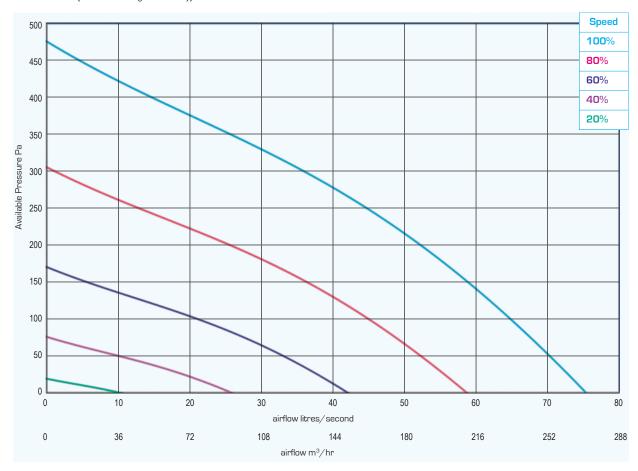
RESULTS for SAP CALCULATIONS ENERGY LEVEL PERFORMANCE - using rigid ducting only												
		2012 Data										
Exhaust Terminal Configuration	Airflow [I/sec]	Specific Fan Power (W/I/sec)	Heat Exchange Efficiency									
Kitchen + 1 additional wet room	21	0.55	87%									
Kitchen + 2 additional 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												

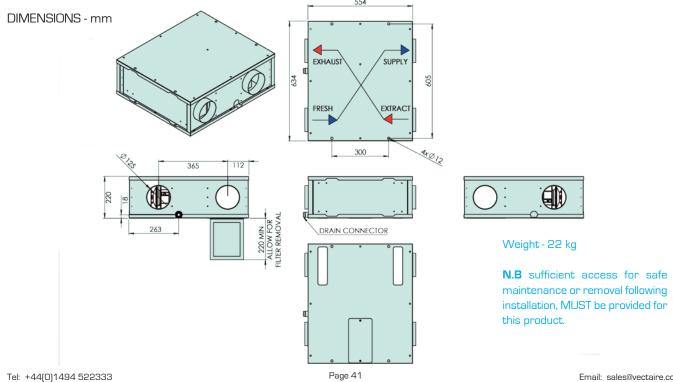
# EV0220

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#### PERFORMANCE (curves are for guidance only)





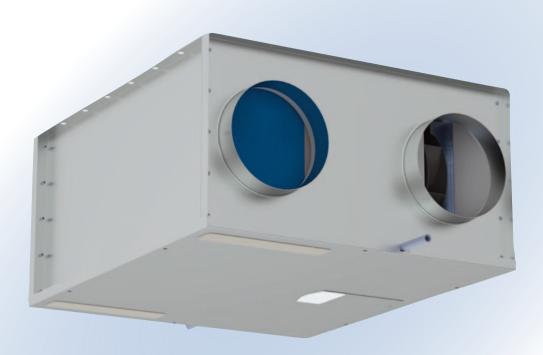
Email: sales@vectaire.co.uk Web: www.vectaire.co.uk

# EV0350









#### EV0350

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

- low noise levels
- low running costs
- complies with Building Regulations
- manufactured in UK to ISO 9001:2015 and 14001:2015
- accurate commissioning via remote LCD commissioning unit

## EV0350

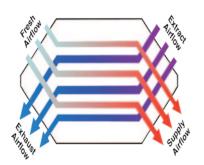


#### **GENERAL FEATURES**

- up to 107 litre/sec at 50Pa max 116 litre/sec capacity
- sfp down to 0.65 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
- · 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
- EVO350DC/BARBYH-bottom access, right drain, bypass, humidistat

#### **CONTROL FEATURES - STANDARD**

- independent variable speed adjustment for each motor for trickle, boost and purge speeds.
- adjustable boost speed over-run timer from 0 to 30 minutes.
- · adjustable boost speed delay from 0 to 5 minutes
- remote purge cable connection on circuit board (for optional purge facility)
- · 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 (humidity threshold 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
  - CO<sub>2</sub> detector
  - home automation system
- · relay for external pre-heater
- 3 speed selector switch
- optional remote purge cable factory connected adjustable over-run timer from 0 to 250 minutes, Pre-set to 15 minutes (adjustable at factory)
- 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**

- Building Regulations for enhanced energy saving capability
- 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 9001:2015 and 14001:2015
- CE marked
- SAP PCDB Listed

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

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





TECHNICAL CHARACTERISTICS													
All flow // deb											Operating Current		
Model	100%	80%	60%	40%	20%	100%	80%	60%	40%	20%	(Amps)		
EV0350	116	90	64	38	14	157	83	39	15	4	1.41		

EVC	350	S	Z.	Sound Pressure						
Curve Ref		63	125	250	500	1k	2k	4k	8k	dBA @ 3m
4.000/	Extract	63	65	64	63	60	57	54	49	
100% (116 l/sec)	Supply	68	70	69	68	65	62	59	54	
[1101/000]	Breakout	66	63	56	49	40	31	22	15	34.6
000/	Extract	59	61	60	58	54	52	48	41	
80% (90 l/sec)	Supply	64	66	65	63	59	57	53	46	
(55 % 555)	Breakout	62	59	52	44	34	26	16	9	30.3
000/	Extract	53	55	54	52	48	45	40	32	
60% (64 l/sec)	Supply	58	60	59	57	53	50	45	37	
[041/ 000]	Breakout	56	53	46	38	28	19	8	5	24.3
400/	Extract	46	48	46	43	39	35	29	17	
40% (38 l/sec)	Supply	51	53	51	48	44	40	34	22	
(00 1/ 000)	Breakout	49	46	38	29	19	9	7	< 5	16.5
000/	Extract	35	36	32	28	24	20	7	5	
20% (14 l/sec)	Supply	40	41	37	33	29	25	12	10	
( , 555)	Breakout	38	34	24	14	8	6	< 5	<5	<10

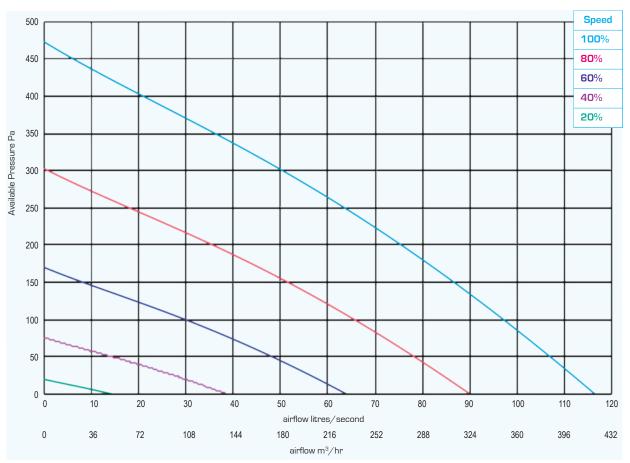
The breakout dB(A) sound pressure values are given for hemispherical free field propagation at a distance of 3m from the unit Extract and Supply values are in-duct sound power levels

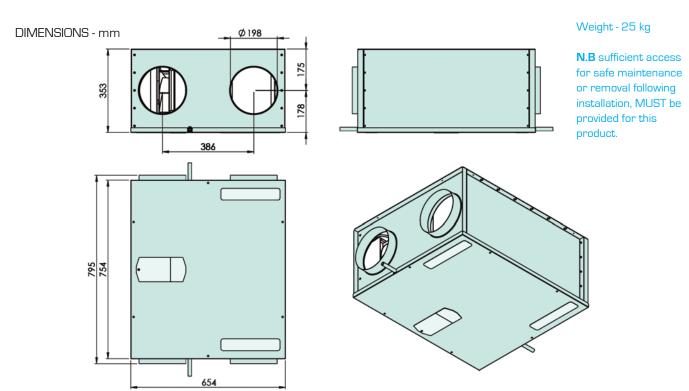
	RESULTS for SAP CALCULATIONS ENERGY LEVEL PERFORMANCE - using rigid ducting only													
	2009	Data	2012	Data	SAP 10 Data									
Exhaust Terminal Configuration	Specific Fan Power (W/I/sec)	Heat Exchange Efficiency	Specific Fan Power (W/I/sec)	Heat Exchange Efficiency	Specific Fan Power (W/I/sec)	Heat Exchange Efficiency								
Kitchen + 1 additional wet room	0.72	88%	0.72	87%	0.72	87%								
Kitchen + 2 additional wet rooms	0.65	87%	0.75	85%	0.75	85%								
Kitchen + 3 additional wet rooms	0.67	85%	0.85	84%	0.85	84%								
Kitchen + 4 additional wet rooms	0.76	84%	1.04	83%	1.04	83%								
Kitchen + 5 additional wet rooms	0.87	83%	1.23	82%	1.23	82%								
Kitchen + 6 additional wet rooms	1.01	83%												
Kitchen +7 additional wet rooms	1.18	82%												
Figures at minimum flow rate conditions														

# EV0350



#### PERFORMANCE (curves are for guidance only)





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# Studio









#### Studio

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

- low noise levels
- low running costs
- complies with Building Regulations
- manufactured in UK to ISO 9001:2015 and 14001:2015
- 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 0.87 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 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 cable connection on circuit board (for optional purge facility)
- · 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**

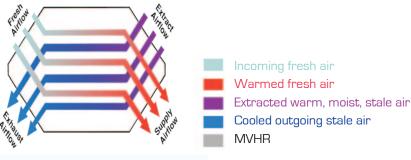
- change of ductwork handing on humidistat version (humidity threshold can be set at manufacture)
- integral humidistat proportionally increases motor speeds with rising humidity
- 0-10V connections can be added for:
  - BMS for remote motor shut-off
  - CO<sub>2</sub> detector
  - home automation system
- · relay for external pre-heater
- 3 speed selector switch
- optional remote purge cable factory connected adjustable over-run timer from 0 to 250 minutes, Pre-set to 15 minutes (adjustable at factory)
- 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.

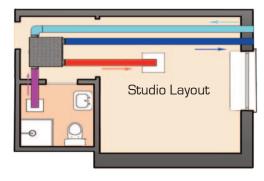
#### **COMPLIES WITH**

- · Building Regulations for enhanced energy saving capability
- 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 9001:2015 and 14001:2015
- CE marked
- SAP PCDB Listed

#### TYPICAL SPECIFICATION AVAILABLE AT

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

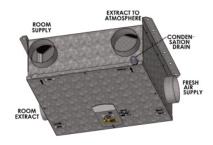




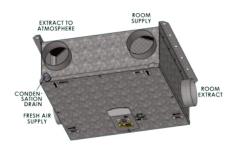
#### **MODELS AVAILABLE:**

- 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

TECHNICAL CHARACTERISTICS													
									Vatts		Operating Current		
Model	Model 100% 80% 60% 40% 20% 100%						80%	60%	40%	20%	(Amps)		
Studio	59	45	30	17	6	100	57	25	10	2	0.93		

Studio		S	ound Pow	ver Levels	, <i>L<sub>w</sub></i> (dB) -	Octave E	Bands Fre	quency H	Z.	Sound Pressure
Curve Ref		63	125	250	500	1k	2k	4k	8k	dBA @ 3m
4.000/	Extract	63	65	66	66	62	59	57	49	
100% (59 l/sec)	Supply	68	70	71	71	67	64	62	54	
[001/300]	Breakout	66	63	58	52	42	33	25	15	36.3
000/	Extract	59	62	61	61	57	54	50	42	
80% (45 l/sec)	Supply	64	67	66	66	62	59	55	47	
(40 1/ 000)	Breakout	62	60	53	47	37	28	18	8	31.8
00%	Extract	53	57	55	55	50	47	41	32	
60% (30 l/sec)	Supply	58	62	60	60	55	52	46	37	
(00 1/ 000)	Breakout	56	55	47	41	30	24	9	< 5	26.1
400/	Extract	46	50	47	47	41	37	30	18	
40% [17 l/sec]	Supply	51	55	52	52	46	42	35	23	
(17 1/ 000)	Breakout	49	48	39	33	21	11	< 5	< 5	18.4
000/	Extract	34	38	33	33	27	22	12	3	
20% 6 l/sec)	Supply	39	43	38	38	32	27	17	8	
_ // 555]	Breakout	37	36	25	19	7	< 5	< 5	<5	<10.0

The breakout dB(A) sound pressure values are given for hemispherical free field propagation at a distance of 3m from the unit Extract and Supply values are in-duct sound power levels

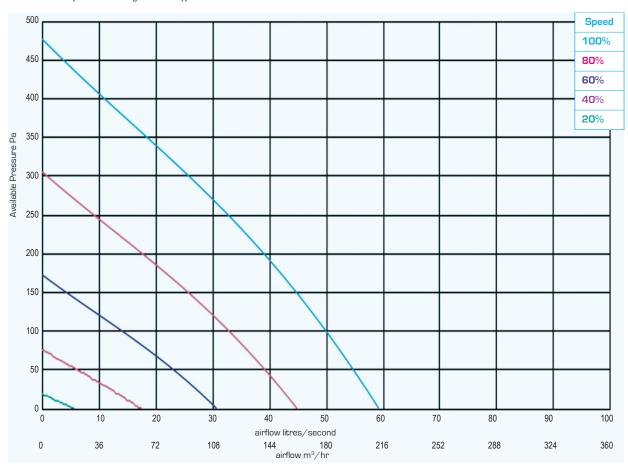
RESULTS for SAP CALCULATIONS ENERGY LEVEL PERFORMANCE - using rigid ducting only													
	2009	Data	2012	Data	SAP 10 Data								
Exhaust Terminal Configuration	Specific Fan Power (W/I/sec)	Heat Exchange Efficiency	Specific Fan Power (W/I/sec)	Heat Exchange Efficiency	Specific Fan Power (W/I/sec)	Heat Exchange Efficiency							
Kitchen + 1 additional wet room	0.87	80%	0.93	79%	0.93	79%							
Kitchen + 2 additional wet rooms	0.89	79%	1.09	78%	1.09	78%							
Kitchen + 3 additional wet rooms	1.02	78%	1.36	77%	1.36	77%							
Kitchen + 4 additional wet rooms	1.21	77%											
Kitchen + 5 additional wet rooms	1.43	77%											
Figures at minimum flow rate conditions													

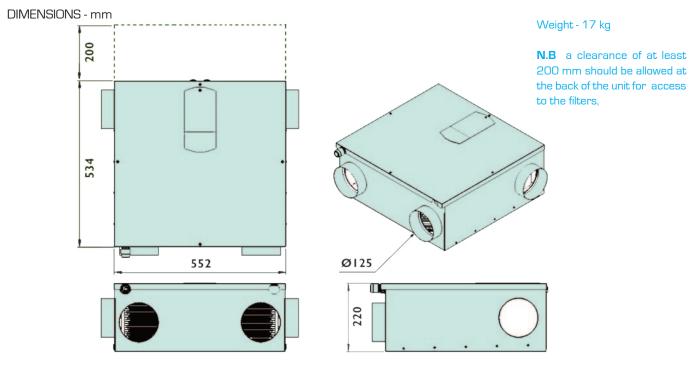
Vectaire Ltd can supply all accessories for use with these units, including product filters, air filter cassettes, silencers, fire dampers, air valves, ducting, outside grilles and wall cowls. Additionally, Vectaire offers a design service to ensure that the unit installed is the best possible to provide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





#### PERFORMANCE (curves are for guidance only)





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# Mini









#### Mini

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

- low noise levels
- low running costs
- complies with Building Regulations
- manufactured in UK to ISO 9001:2015 and 14001:2015
- accurate commissioning via remote LCD commissioning unit
- \* non-bypass models available

#### Mini



#### **GENERAL FEATURES**

- for 1 or 2 bedroom apartments, hotel rooms, student accommodation, extra care facilities, multi-occupancy establishments
- Up to 30 litre/sec at 50Pa max 34 litre/sec capacity
- sfp down to 1.11 W/l/s
- summer bypass which allows the 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
- 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 cable connection on circuit board (for optional purge facility)
- 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 (humidity threshold 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
- optional remote purge cable factory connected adjustable over-run timer from 0 to 250 minutes, Pre-set to 15 minutes (adjustable at factory)
- 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**

- Building Regulations for enhanced energy saving capability
- 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 9001:2015 and 14001:2015
- CE marked
- SAP PCDB listed

#### TYPICAL SPECIFICATION AVAILABLE AT

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

## Incoming fresh air

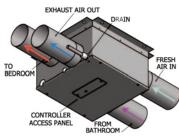
- Warmed fresh air
- Extracted warm, moist, stale air
- Cooled outgoing stale air
- WHHR Mini DC

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#### WHHR MINI DC OPTION 2 (LEFT HAND DRAIN)

# TO BEDROOM FROM BATHROOM DRAIN CONTROLLER ACCESS PANEL FRESH AIR IN

# WHHR MINI DC OPTION 1 (RIGHT HAND DRAIN)



#### MODELS AVAILABLE:

- 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





TECHNICAL CHARACTERISTICS													
All liew / See											Operating - Current		
Model	100%	80%	60%	40%	20%	100%	80%	60%	40%	20%	(Amps)		
Mini	34	24	15	7	2	83	42	19	7	2	0.93		

Mini		S	Z.	Sound Pressure						
Curve Ref		63	125	250	500	1k	2k	4k	8k	dBA @ 3m
4000/	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
000/	Extract	59	65	64	64	58	54	50	43	
80% (24 l/sec)	Supply	64	70	69	69	63	59	55	48	
(2 1 1/ 000)	Breakout	62	63	56	50	38	28	18	9	34.6
000/	Extract	54	59	58	58	51	47	42	33	
60% (15 l/sec)	Supply	59	64	63	63	56	52	47	38	
(101/000)	Breakout	57	57	50	44	31	21	10	<5	28.6
400/	Extract	47	52	50	49	43	39	32	21	
40% (7 l/sec)	Supply	52	57	55	54	48	44	37	26	
(, , 500)	Breakout	50	50	42	35	23	13	<5	<5	20.7
000/	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 pressure values are given for hemispherical free field propagation at a distance of 3m from the unit Extract and Supply values are in-duct sound power levels

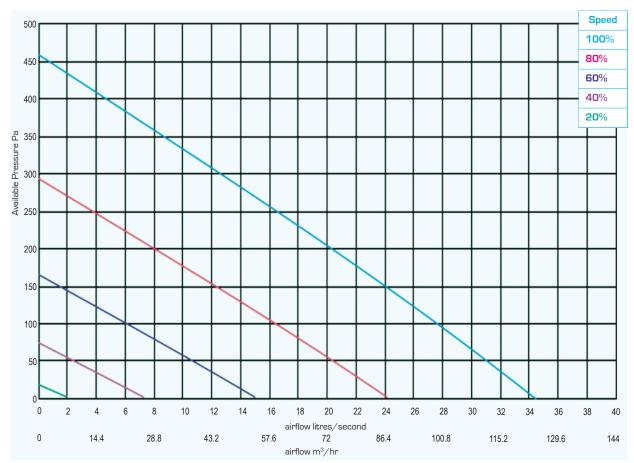
RESULTS for SAP CALCULATIONS ENERGY LEVEL PERFORMANCE - using rigid ducting only													
2009 Data 2012 Data SAP 10 Data													
Exhaust Terminal Configuration	Specific Heat Specific Heat Specific Heat Specific Heat Exchange Fan Power Exchange Fan P												
Kitchen + 1 additional wet room	1.11	83%	1.40	82%	1.40	82%							
Kitchen + 2 additional wet rooms 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.

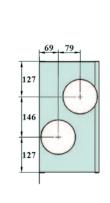
# Mini



#### PERFORMANCE (curves are for guidance only)



# 220 108.5



Weight - 9 kg

**N.B** sufficient access for safe maintenance or removal following installation, MUST be provided for this product.

DIMENSIONS - mm

# Purge-Box 100 Purge-Box 200







#### Purge-Box

- Vectaire Purge-Box units are designed to provide purge ventilation as required by Building Regulations
- they are an efficient, low energy solution to creating a healthier ambient by removing humidity, poor quality air, and stale odours QUICKLY in residential dwellings
- Vectaire Purge-Box units can be used as stand alone units or in conjunction with a Vectaire MVHR or MEV system
- available in two capacities
- the two sizes of Vectaire Purge-Box will help tackle overheating issues (Building Regulations, Part O)

- variable adjustment trickle, boost and purge speeds set at installation
- for ceiling, loft or void mounting
- Vectaire Purge Boxes are easy to install using 220mm x 90mm ducting
- low profile units
- require only one discharge grille
- low sound levels
- low running costs
- manufactured in UK to ISO 9001:2015 and 14001:2015

# Purge-Box 100 Purge-Box 200

#### **GENERAL FEATURES**

- Purge-Box 100 up to 188 l/s at 50Pa max 200 l/s capacity - sfp down to 0.20 W/l/s
- Purge-Box 200 up to 233 l/s at 50Pa max 251 l/s capacity
   sfp down to 0.27 W/l/s
- powerful performance levels for rapid purge ventilation
- easy and economical to install and maintain
- for ceiling, loft or void in-line installation
- can be angled horizontally or vertically
- easy connection to 220mm x 90mm flat ducting
- variable boost speeds 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 sound levels
- low running costs
- 3 year warranty 1 year parts and labour, 2 years parts only

#### **TECHNICAL FEATURES**

- · compact, low profile units
- · casing from galvanised sheet steel
- · pre-wired for easy electrical connection
- service and maintenance panel easily accessible from underneath
- low energy, high efficiency 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
- IPX4 rated

#### **CONTROL FEATURES**

- · 3 integrated, fully adjustable speeds
- integral, adjustable over-run timer adjustable from 0-30 minutes set at installation

#### **COMPLIES WITH**

- · Building Regulations
- The Ecodesign for Energy-Related Products and Energy Information (Amendment) (EU Exit) Regulations 2019
- The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012
- Electromagnetic Compatibility Regulations 2016
- Electrical Equipment (Safety) Regulations 2016
- manufactured in UK to ISO 9001:2015 and 14001:2015
- UKCA/CE marked

#### MODELS AVAILABLE:

- PURGE-BOX100 max 200 l/s capacity
- PURGE-BOX 200 max 251 I/s capacity

Vectaire Ltd can supply all ancillaries 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.



# Purge-Box 100 Purge-Box 200

TECHNICAL CHARACTERISTICS									
		Airflow	/l/sec		Total Power - Watts				Operating
Model	100%	80%	60%	40%	100%	80%	60%	40%	Current (Amps)
PURGE-BOX100	200	148	111	74	99	62	29	13	0.74
PURGE-BOX200	251	188	141	94	84	31	21	15	0.70

PURGE-	BOX 100	S	ound Pow	ver Levels	, <i>L<sub>w</sub></i> (dB) -	Octave E	Bands Fre	quency H	Z.	Sound Pressure	
Curve Ref		63	125	250	500	1k	2k	4k	8k	dBA @ 3m	
1000/	Extract	58	64	65	61	59	57	53	57		
100% (200 l/sec)	Supply	64	69	70	66	65	63	58	63		
[200 1/ 300]	Breakout	62	62	56	45	37	29	18	20	33.2	
000/	Extract	53	58	58	54	53	51	44	46		
80% (148 l/sec)	Supply	58	64	64	59	58	56	50	52		
[1481/ sec]	Breakout	56	56	50	39	31	22	9	9	27.0	
000/	Extract	50	54	52	47	46	43	35	35		
60% [111 l/sec]	Supply	55	59	57	53	52	48	41	41		
[111/ 000]	Breakout	53	52	43	32	24	21	6	6	21.5	
100/	Extract	44	46	44	40	39	34	26	13		
<b>/</b> 10%	Supply	50	52	50	45	44	40	32	19		
(7 <del>-1</del> / 366)	Breakout	47	44	35	24	17	5	5	5	13.9	
The breakout dB(A) sound pressure values are given for hemispherical free field propagation at a distance of 3m from the unit											

PURGE-	BOX 200	S	ound Pow	er Levels	, <i>L<sub>w</sub></i> (dB) -	Octave E	Bands Fre	quency H	Z.	Sound Pressure	
Curve Ref		63	125	250	500	1k	2k	4k	8k	dBA @ 3m	
4.000/	Extract	58	60	65	63	64	62	58	58		
100% (251 l/sec)	Supply	63	65	70	68	69	67	63	63		
(23. 9 333)	Breakout	61	58	57	49	44	36	26	24	34.4	
000/	Extract	53	55	59	56	57	55	50	48		
80% (188 l/sec)	Supply	58	60	64	61	62	60	55	53		
	Breakout	56	53	51	42	37	29	18	14	28.2	
000/	Extract	49	50	52	49	50	48	42	39		
60% [141 l/sec]	Supply	54	55	57	54	55	53	47	44		
(1111/000)	Breakout	52	48	44	35	30	22	10	5	21.6	
400/	Extract	43	42	43	40	41	38	32	25		
40% (94 l/sec)	Supply	48	47	48	45	46	43	37	30		
[041/ 000]	Breakout	46	40	35	26	21	12	< 5	< 5	13.0	
The breakout dB(A) sound pressure values are given for hemispherical free field propagation at a distance of 3m from the unit											

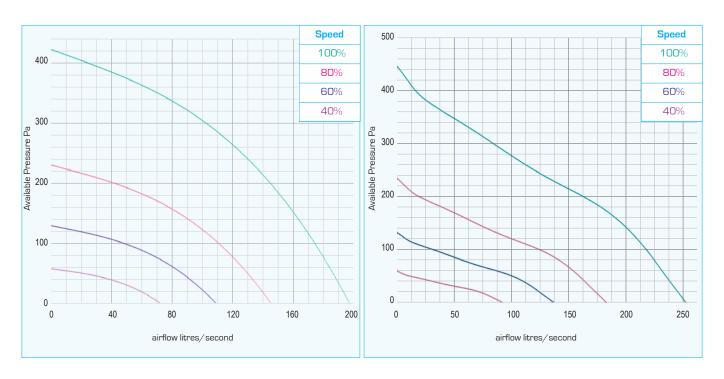
Tel: +44(0)1494 522333 Fax: +44(0)1494 522337 Page 56 Email: sales@vectaire.co.uk Web: www.vectaire.co.uk



PERFORMANCE (curves are for guidance only)

#### Purge-Box 100

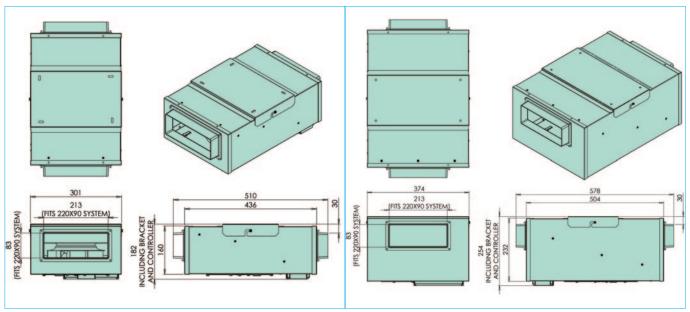
#### Purge-Box 200



DIMENSIONS - mm

Purge-Box 100 - 7kgs

Purge-Box 200 - 10 kgs



N.B - sufficient access for safe maintenance or removal following installation, MUST be provided for this product -

# Microbox 125/2DC-B









#### Microbox 125/2DC

- efficient, low energy solution to controlling condensation and pollution in residential properties up to 185m<sup>2</sup>
- 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
- manufactured in UK to ISO 9001:2015 and 14001:2015

# Microbox 125/2DC-B

# vectaire

#### **GENERAL FEATURES**

- up to 97 litre/sec at 50Pa max 108 litre/sec capacity
- sfp down to 0.20 W/l/s
- easy and economical to install and maintain
- for ceiling, loft or void in-line installation
- can be angled horizontally or vertically
- variable low (trickle), boost and purge options purge option using own volt-free purge cable.
- 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
- 3 year warranty 1 year parts and labour, 2 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 using own volt-free purge cable)
- boost setting (via switched live)
- integral, adjustable over-run timer adjustable from 0-30 minutes set at installation

#### **COMPLIES WITH**

- Building Regulations for enhanced energy saving capability
- 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 9001:2015 and 14001:2015
- CE marked
- SAP PCDB Listed
- Energy Saving Trust Best Practice Compliant

#### TYPICAL SPECIFICATION AVAILABLE AT

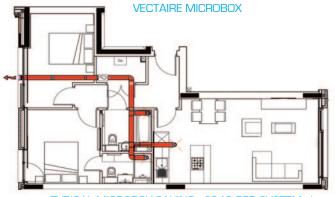
http://www.vectaire.co.uk/downloads

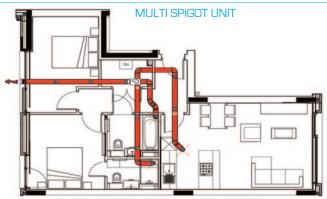
#### MBOX125/2DC204 -

with rectangular spigots -204mm x 60mm



#### **DUCT RUN COST SAVINGS**





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

#### MODELS AVAILABLE:

- MBOX125/2DC standard model
- MBOX125/2DCH with integral humidistat
- MBOX125/2DC204 spigot 204mm x 60mm
- MB0X125/2DC204H 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.



# Microbox 125/2DC-B

TECHNICAL CHARACTERISTICS											
							Operating				
Model	Max Boost	Max Trickle	80%	60%	40%	Max Boost	Max Trickle	80%	60%	40%	Current (Amps)
Microbox 125/2DC	108	101	80	60	40	46	45	26	12	6	0.74

Microbox 125	5/2DC	S	ound Pow	ver Levels	, <i>L<sub>w</sub></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	
[100]	Breakout	56	56	51	41	34	26	16	18	28.2
NA T: 11	Extract	52	57	58	54	53	51	46	50	
Max Trickle [101 I/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	
(33 % 333)	Breakout	51	51	45	35	28	20	8	8	22.5
<b>CO</b> 0/	Extract	45	49	47	43	42	39	32	32	
60% (60 l/sec)	Supply	50	54	52	48	47	44	37	37	
(55 % 555)	Breakout	48	47	39	29	22	19	< 5	< 5	17.4
400/	Extract	40	42	40	36	35	31	24	12	
40% (40 l/sec)	Supply	45	47	45	41	40	36	29	17	
(10 % 000)	Breakout	43	40	32	22	15	5	< 5	< 5	10.5

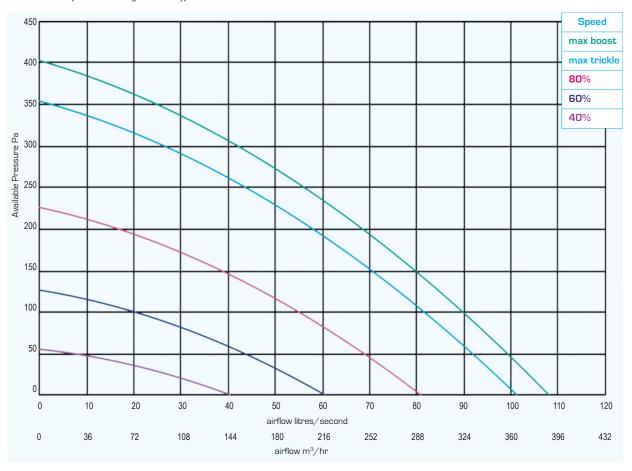
The breakout dB(A) sound pressure values are given for hemispherical free field propagation at a distance of 3m from the unit Extract and Supply values are in-duct sound power levels

RESULTS for SAP CALCULATIONS ENERGY LEVEL PERFORMANCE - using rigid ducting only								
	2009 Data	2012 Data	SAP 10 Data					
Exhaust Terminal Configuration	Specific Fan Power (W/I/sec)	Specific Fan Power (W/I/sec)	Specific Fan Power (W/I/sec)					
Kitchen + 1 additional wet room	0.20	0.20	0.20					
Kitchen + 2 additional wet rooms	0.26	0.26	0.26					
Kitchen + 3 additional wet rooms	0.34	0.34	0.34					
Kitchen + 4 additional wet rooms	0.44	0.44	0.44					
Kitchen + 5 additional wet rooms	0.55	0.55	0.55					
Figures at minimum flow rate conditions	1		ı					



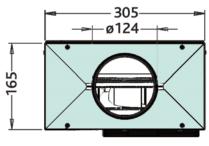


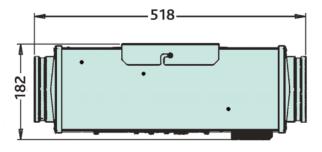
#### PERFORMANCE (curves are for guidance only)



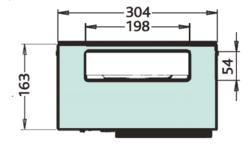
#### DIMENSIONS - mm

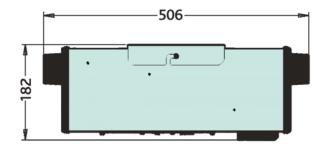
#### MBOX125/2DC





#### MBOX125/2DC204





N.B sufficient access for safe maintenance or removal following installation, MUST be provided for this product - kg 7.

# Microbox 200/2DC









#### Microbox 200/2DC

- efficient, low energy solution to controlling condensation and pollution in residential properties up to 335m<sup>2</sup>
- 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
- manufactured in UK to ISO 9001:2015 and 14001:2015

# Microbox 200/2DC

# vectaire

#### **GENERAL FEATURES**

- up to 233 litre/sec at 50Pa max 251 litre/sec capacity
- sfp down to 0.27 W/l/s
- easy and economical to install and maintain
- for ceiling, loft or void in-line installation
- can be angled horizontally or vertically
- variable low (trickle), boost and purge options purge option using own volt-free purge cable.
- 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
- 3 year warranty 1 year parts and labour, 2 years parts only

#### **TECHNICAL FEATURES**

- powerful, low profile unit, 232mm deep 234mm with control box)
- · 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 using own volt-free purge cable)
- boost setting (via switched live)
- integral, adjustable over-run timer adjustable from 0-30 minutes set at installation

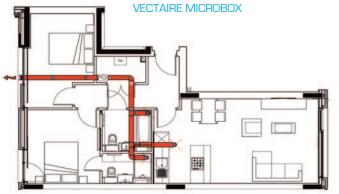
#### **COMPLIES WITH**

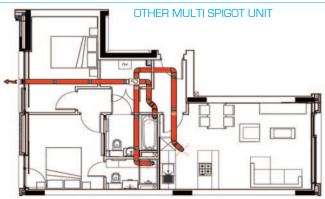
- Building Regulations for enhanced energy saving capability
- Building Regulations for reliable, efficient ventilation
- EU RoHS Directive Compliant.
- Complies with IEC60335-2-80, LVD2006/95/CE
- EMC2014/30/UE (European Directive against radio interference and electro-magnetic compatibility
- manufactured in UK to ISO 9001:2015 and 14001:2015
- CE marked
- SAP PCDB Listed

#### TYPICAL SPECIFICATION AVAILABLE AT

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

#### DUCT RUN COST SAVINGS





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

#### **MODELS AVAILABLE:**

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

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

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





TECHNICAL CHARACTERISTICS											
		А	rflow I/se	ес			Total	Power - V	Vatts		Operating
Model	Max Boost	Max Trickle	80%	60%	40%	Max Boost	Max Trickle	80%	60%	40%	Current (Amps)
Microbox 200/2DC	251	235	188	141	94	84	48	31	21	15	0.70

Microbox 200	D/2DC	S	ound Pow	er Levels	, <i>L<sub>w</sub></i> (dB) -	Octave E	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
NA Toi-ld-	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
000/	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
CO0/	Extract	49	50	52	49	50	48	42	39	
60% (141 l/sec)	Supply	54	55	57	54	55	53	47	44	
( · · · · · / 000)	Breakout	52	48	44	35	30	22	10	5	21.6
400/	Extract	43	42	43	40	41	38	32	25	
40% (94 l/sec)	Supply	48	47	48	45	46	43	37	30	
[5 + 1/ 555]	Breakout	46	40	35	26	21	12	< 5	<5	13.0

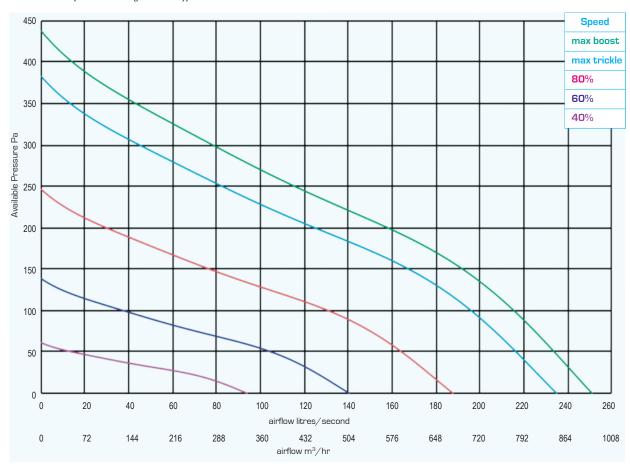
The breakout dB(A) sound pressure values are given for hemispherical free field propagation at a distance of 3m from the unit Extract and Supply values are in-duct sound power levels

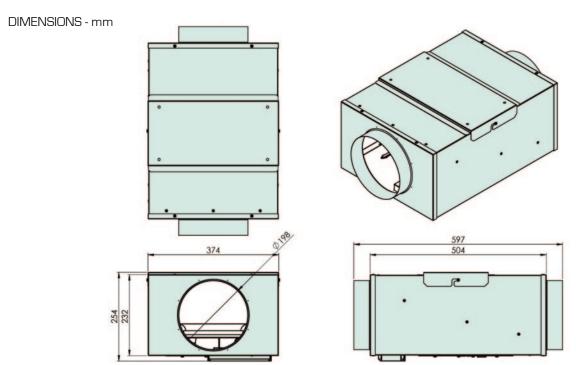
RESULTS for SAP CALCULATIONS ENERGY LEVEL PERFORMANCE - using rigid ducting only								
	2009 Data	2012 Data	SAP 10 Data					
Exhaust Terminal Configuration	Specific Fan Power (W/I/sec)	Specific Fan Power (W/I/sec)	Specific Fan Power (W/I/sec)					
Kitchen + 1 additional wet room	0.28	0.28	0.28					
Kitchen + 2 additional wet rooms	0.27	0.27	0.27					
Kitchen + 3 additional wet rooms	0.28	0.28	0.28					
Kitchen + 4 additional wet rooms	0.36	0.36	0.36					
Kitchen + 5 additional wet rooms	0.42	0.42	0.42					
Kitchen + 6 additional wet rooms	0.52	0.52	0.52					
Figures at minimum flow rate conditions								





PERFORMANCE (curves are for guidance only)





N.B sufficient access for safe maintenance or removal following installation, MUST be provided for this product - kg 10.

# Elegance "16"











#### Elegance "16" - 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 16 l/sec Trickle Speed 2
- 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 "16" - EL1003

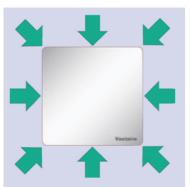
# vectaire

#### **GENERAL FEATURES**

- exhausts directly to the outside (through wall, or window installation with additional window kit, or with medium length ducting - up to 6m)
- sfp down to 0.09 W/l/s
- easy and economical to install and maintain
- runs continuously at pre-selected choice of two speeds (fixed at installation)
- Speed 1 operates at 8 l/s (factory set)
- Speed 2 operates at **16** 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, SELV models IPX7 rated



#### **ELEGANCE "16" 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 minutes

#### **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 "**16**" - EL1003

TECHNICAL CHARACTERISTICS									
N/I - d - l	Airflow I/sec			Power - Watts			dBA (@ 3m in free field)		
Model	Trickle 1	Trickle 2	Boost	Trickle 1	Trickle 2	Boost	Trickle 1	Trickle 2	Boost
EL1003	8	16	26.9	0.5	1.1	3.5	15.1	17.3	31.4

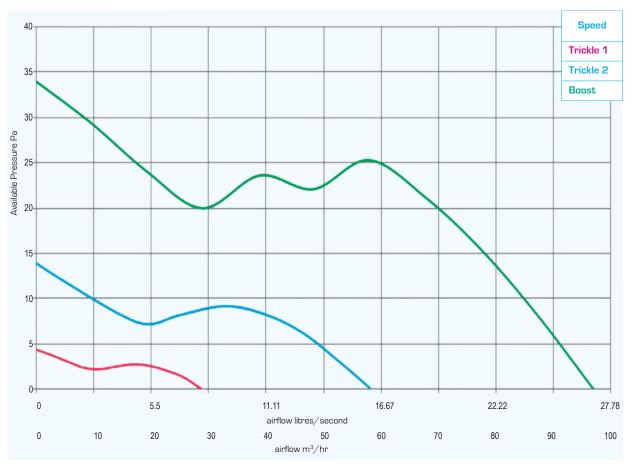
RESULTS for SAP CALCULATIONS ENERGY LEVEL PERFORMANCE - using rigid ducting only								
Unit Configuration	Specific Fan Power [W/I/s]	EST Best Practice Performance Compliant	Flow Rate [I/sec]					
In room - kitchen	0.12	Yes	13.0					
In room - wetroom	0.11	Yes	8.0					
Through wall - kitchen	0.09	Yes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

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

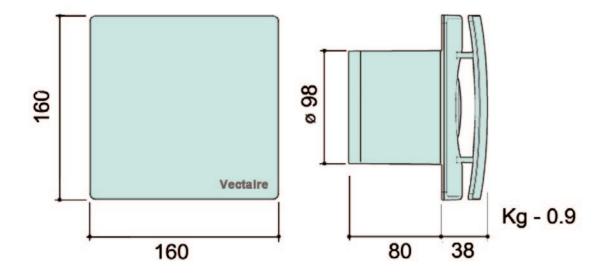


# Elegance "**16**" - EL1003

#### PERFORMANCE (curves are for guidance only)



#### DIMENSIONS - mm



# Elegance - EL1203 120 mm 3 Speed Fan









#### Elegance - EL1203

- 120mm diameter
- energy efficient EC motor
- provides low level continuous ventilation to control condensation
- 3 speed axial fan
- powerful low profile unit

- · wall or ceiling
- low noise levels
- low running costs
- for all domestic wet room
- complies with Building Regulations

# Elegance - EL1203

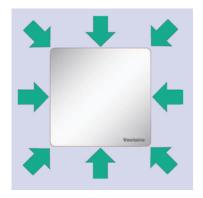
# vectaire

#### **GENERAL FEATURES**

- exhausts directly to the outside (through wall, or with medium length ducting - up to 6m)
- · easy and economical to install and maintain
- runs continuously at pre-selected choice of two speeds (fixed at installation)
- Speed 1 operates at 13 l/s (factory set)
- Speed 2 operates at 19 l/s
- speed boosted to maximum (44 l/s) 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:**

- EL1203 3 speed, continuous running
- EL1203DT 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).
- EL1203HDT with humidistat, comfort timer

N.B timer adjustable from 0-30 minutes

humidistat adjustable from between 40% and 90% relative humidity

#### **COMPLIES WITH**

- · Building Regulations for enhanced energy saving capability
- 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



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

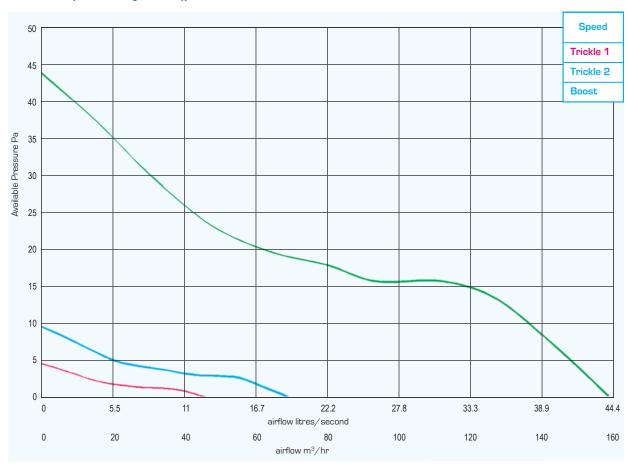
Wall terminations - all wall terminations must use the approved wall cowl or high rise kit



# Elegance - EL1203

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
EL1203	13	19	44	0.5	0.8	5	15.1	17.3	32.4

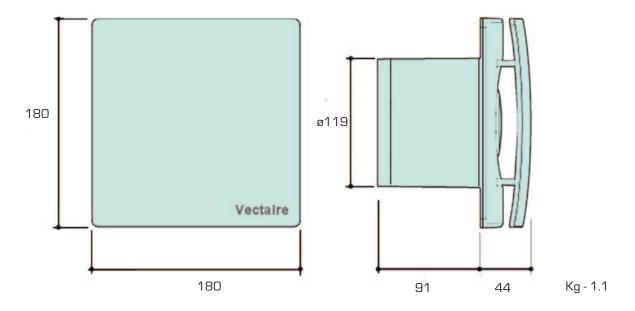
#### PERFORMANCE (curves are for guidance only)





# Elegance - EL1203

#### DIMENSIONS - mm



# Elix "16" - ELX1003











#### Elix "16" - ELX1003

- energy efficient EC motor
- provides low level continuous ventilation to control condensation
- 3 speed centrifugal fan 16 l/sec Trickle Speed 2
- 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 "16" - ELX1003

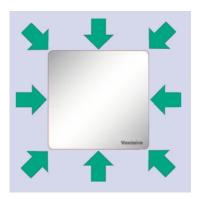


#### **GENERAL FEATURES**

- exhausts directly to the outside or through long lengths of ducting (up to 15m)
- sfp down to 0.14 W/l/s
- easy and economical to install and maintain
- runs continuously at pre-selected choice of two speeds (fixed at installation)
- Speed 1 operates at 8.9 l/s (factory set)
- Speed 2 operates at 16 l/s
- speed boosted to maximum (27.8 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, SELV models IPX7 rated



#### ELIX "16" 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 minutes

#### **COMPLIES WITH**

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

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



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

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

Wall Plates - as required

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





TECHNICAL CHARACTERISTI	CS								
NA-J-I	А	irflow I/se	С	Po	ower - Wat	ts	dBA (@	3m in free field) Trickle 2 Boost	
Model	Trickle 1	Trickle 2	Boost	Trickle 1	Trickle 2	Boost	Trickle 1	Trickle 2	Boost
ELX1003	8.9	16	27.8	1.6	3.5	15	15.5	17.5	35

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

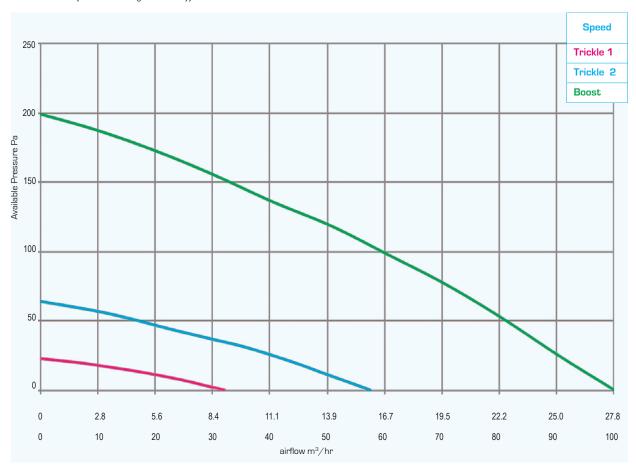
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 Fax: +44[0]1494 522337
 Web: www.vectaire.co.uk

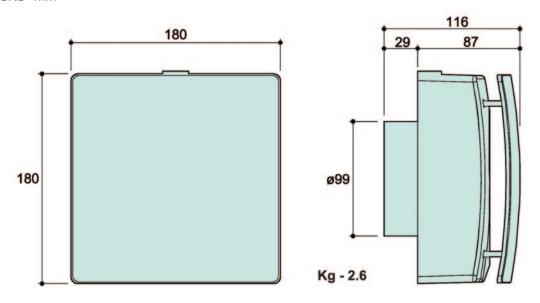
# Elix "16" - ELX1003



#### PERFORMANCE (curves are for guidance only)



#### DIMENSIONS - mm











#### Elprex - ELP2204

- energy efficient motor
- provides low level continuous ventilation to control condensation
- 4 speed centrifugal fan 16 l/sec Trickle
   Speed 1
- choice of three speeds at installation
- wall or ceiling
- for any kitchen
- low noise levels
- low running costs
- complies with Building Regulations

# vectaire

#### **GENERAL FEATURES**

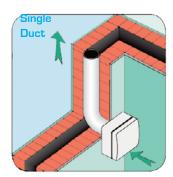
- exhausts directly to the outside or through long lengths of ducting (up to 15m)
- sfp down to 0.35 W/l/s
- easy and economical to install and maintain
- runs continuously at trickle speed with choice of 3 boost speeds (fixed at installation)
- Trickle speed 1 operates at 16 l/s (factory set)
- Boost 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)
- ELP2204HDT operates at Speed 2 if boost speed is automatically started by the integral humidistat when relative humidity reaches pre-set level. Fan runs at this sped until excess humidity dispersed. It then reverts to Trickle Speed 1. Boost speed can also be boosted manually by remote switch/light switch/PIR sensor or remote humidistat.
- anti-vibration gasket
- robust and anti-reverse (removable) backdraught shutter
- energy saving ventilation
- extremely low running costs
- low carbon footprint
- 2 year warranty

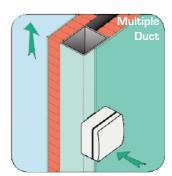
#### **TECHNICAL FEATURES**

- · 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 IICOMPLIES 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

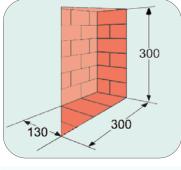
TYPICAL SPECIFICATION AVAILABLE AT http://www.vectaire.co.uk/downloads

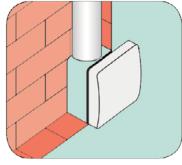
#### **Surface Mounted Installation**

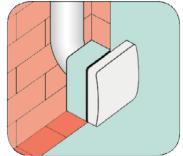




#### **Built-in Installation**







#### 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 minutes

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

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

Wall Plates – as required

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



TECHNICAL CHARACTERISTICS												
Model		Airflow	ı l/sec		Power - Watts dBA (@ 3m in free field)				ld)			
iviodei	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	16	30	45	60	8.7	15.1	22.3	28.4	21	30	39	48

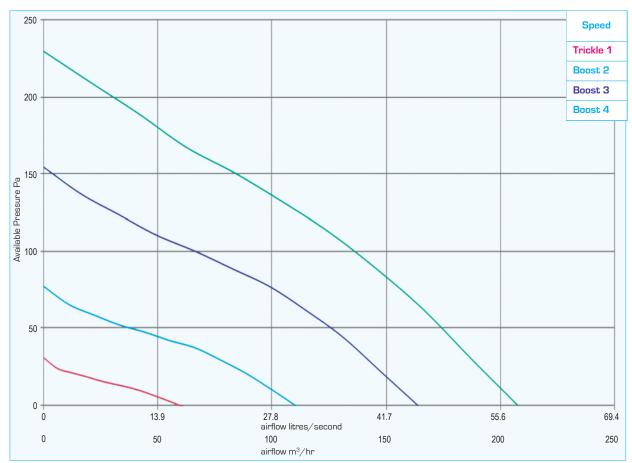
RESULTS for SAP CALCULATIONS							
Specific Fan Power (W/I/s)							
Speed 1	Speed 2	Speed 3	Boost				
0.39 0.41 0.44							
Results from our own laborator	ry						

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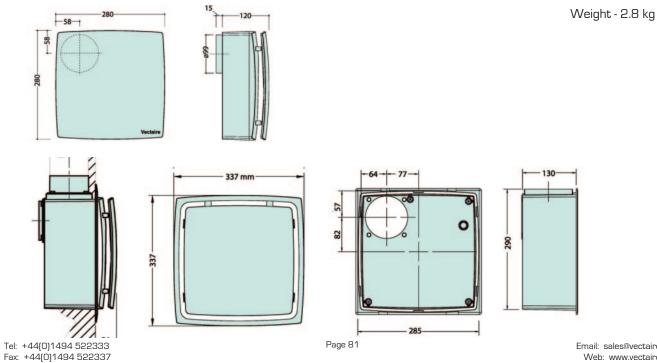
 Fax: +44[0]1494 522337
 Web: www.vectaire.co.uk



#### PERFORMANCE (curves are for guidance only)



#### DIMENSIONS - mm



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

# E-Smile - ES1003









#### E-Smile - ES1003

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

## E-Smile - ES1003

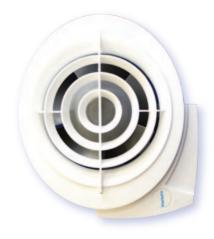
# vectaire

#### **GENERAL FEATURES**

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

#### **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, SELV models IPX7 rated



#### 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**

- Building Regulations for enhanced energy saving capability
- 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 CHARACTERISTI	CS								
Madal	А	Airflow I/sec Power - Watts dBA (@ 3m in				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

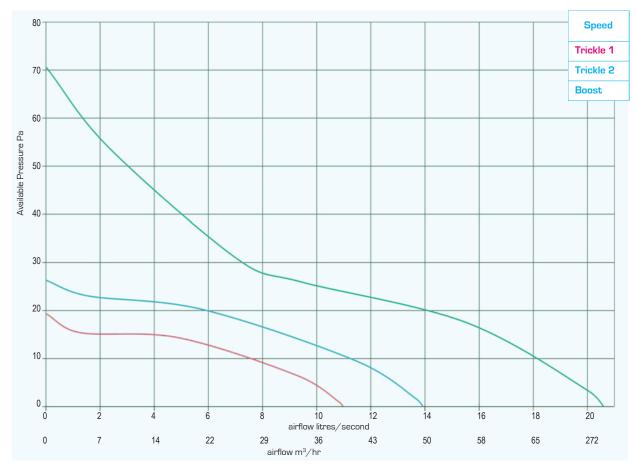
RESULTS for SAP CALCULATIONS ENERGY LEVEL PERFORMANCE - using rig			
Unit Configuration	Specific Fan Power [W/I/s]	EST Best Practice Performance Compliant	Flow Rate [I/sec]
In room - kitchen	0.55	Yes	14.2
In room - wetroom	0.61	Yes	11.1
Through wall - kitchen	0.37	Yes	15.5
Through wall - wetroom	0.45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

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

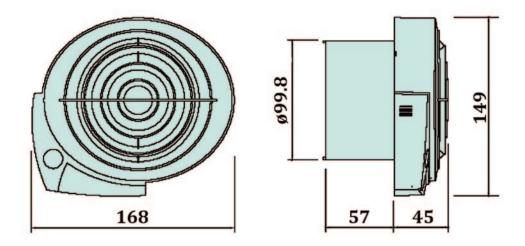




#### PERFORMANCE (curves are for guidance only)



DIMENSIONS - mm



# Elegance - EL100 and EL150







#### Elegance - EL100 and EL150

- 2 sizes
- 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

# Elegance - EL100 and EL150

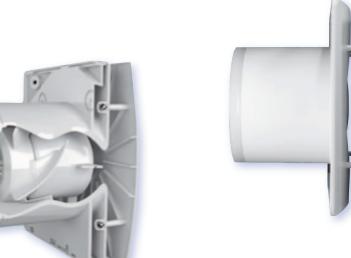


#### **GENERAL FEATURES**

- 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
- 2 Speed versions boost speed by means of integral cord, or after removing cord with:
  - remote switch
  - PIR sensor
  - 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
- 2 year warranty

#### **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



#### 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
- EL100/2AC 2 Speed, Cord or Remote

#### MODELS AVAILABLE - 6"/15cm

- EL150 Standard
- EL150T with overrun Timer
- EL150HT with Humidistat and Timer
- EL150/2AC 2 Speed, Cord or Remote

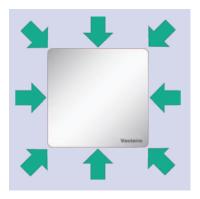
N.B timer adjustable from 3-25 minutes



- · Building Regulations for enhanced energy saving capability
- 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



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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:

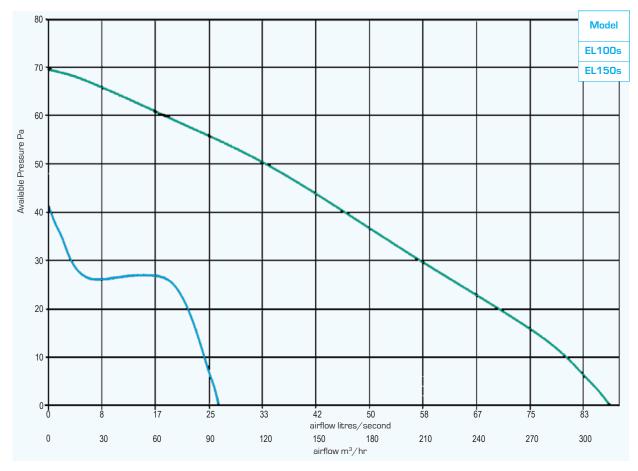
Wall Plates – as required
Window kits – as required
Wall terminations – all wall terminations must use the approved wall cowl or high rise kit



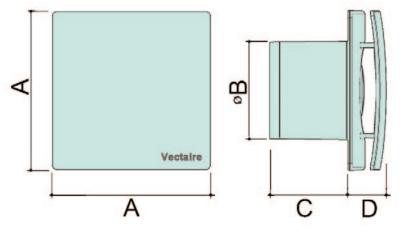
# Elegance - EL100 and EL150

TECHNICAL C	HARACTERIS	STICS						
Model	Airflow	/l/sec	Pressu	ıre - Pa	Power - Watts		dBA (@ 3m in free field)	
	maximum	minimum	maximum	minimum	maximum	minimum	maximum	minimum
EL100	25	16	40	20	14	6	31.4	27.4
EL150	87.5	50	71	15	25	13	43.9	29.5

#### PERFORMANCE (curves are for guidance only)



DIMENSIONS - mm



Model	EL100	EL150
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

#### 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
- IPX4 rated (SELV models IPX7)

#### 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  $18^{\circ}$ 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  $26^{\circ}$ 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

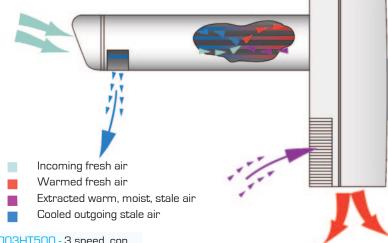
#### **COMPLIES WITH**

- Building Regulations for enhanced energy saving capability
- Building Regulations for reliable, efficient ventilation
- EU RoHS Directive Compliant.
- Complies with IEC60335-2-80, LVD2006/95/Œ 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, 400mm tube
- HREC1003T 3 speed, continuous running with timer and pull-cord, 400 mm tube
- HREC1003HT 3 speed, continuous running with timer, humidistat and pull-cord, 400 mm tube
- HREC1003HT500 3 speed, con tinuous running with timer, humidi stat and pull-cord, 500 mm tube
- HREC1003HT600 3 speed, con tinuous running with timer, humidi stat and pull-cord, 600 mm tube

All above models available in SELV versions.

Timer adjustable from 0-30 minutes Humidistat relative humidity adjustable between 40-90%.

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.

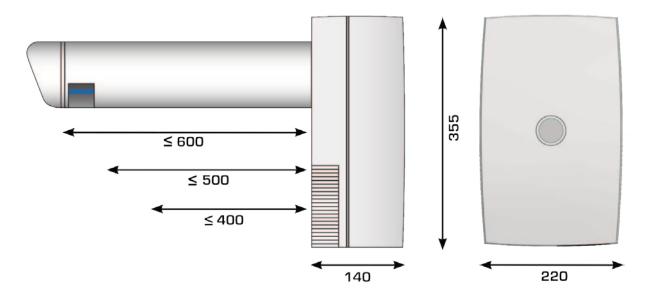




TECHNICAL CHARACTERIST	ICS								
Model	А	irflow I/se	C	Po	wer - Wat	ts	dBA (@	3m in free field) Trickle 2 Boost	
Iviodei	Trickle 1	Trickle 2	Boost	Trickle 1	Trickle 2	Boost	Trickle 1	Trickle 2	Boost
HREC1003	5	7.5	15	3.7	8.3	28.3	18.4	27.7	39.3

#### DIMENSIONS - mm

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

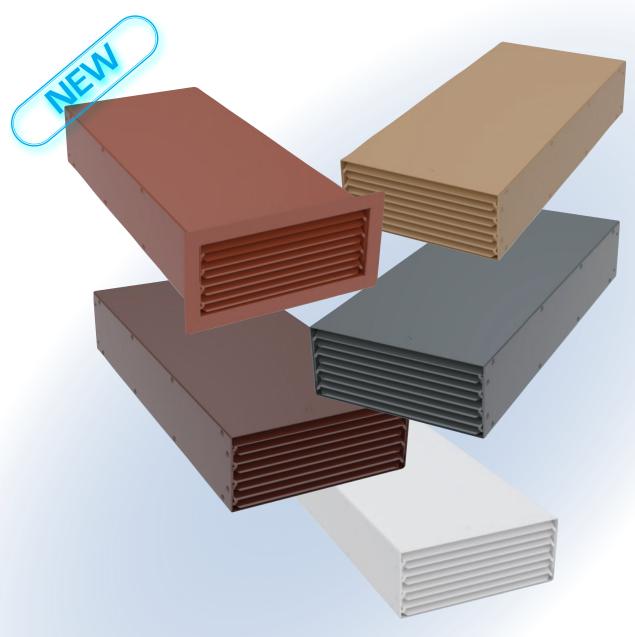


Weight:

With 400mm tube - 3.8 kg With 500mm tube - 3.9 kg With 600mm tube - 4.0 kg

## **FRAB**





#### Fire Rated Air Bricks - FRAB

- High performance non-combustible terminals designed for low resistance use with powered mechanical ventilation
- Non-combustible as set out in Approved
   Document B (fire safety) Volume 1: Dwellings,
   2019 Edition
- Manufactured from 0.9mm electro-galvanised sheet steel, fire class A1 "no contribution to fire
- Corrosion resistant salt spray tested to ISO9227:2022, ASTMB117-19
- Polyester powder coating meeting EN13501-1 classification A2-s1,d0
- FREE AREAS:

204x60 size - 11,007 mm<sup>2</sup>, 90% free area 220x90 size - 18,222 mm<sup>2</sup>, 92% free area 208x130 size - 24,660 mm<sup>2</sup>, 91% free area

 Complies with Approved Document F Volume1, 2021 edition

#### **FRAB**



#### **GENERAL FEATURES**

- High performance non-combustible terminals designed for low resistance use with powered mechanical ventilation
- Very low airflow resistance
- Available in three 3 sizes in 500mm and 100mm lengths
  - 204mm x 60mm
  - 220mm x 90 mm
  - 208mm x 130 mm
- Non-bezelled or bezelled
- Bezelled models suitable for exterior cladding
- Metal ducting available in standard 500mm length. Custom lengths available on request
- Metal straight, 45° and 90° connectors in all three sizes
- Blades integral with firebrick therefore will not loosen
- Designed to fit into walls during building works
- Available in 5 colours:
  - brown RAL8016
  - white RAL9016
  - terracotta RAL8004
  - grey RAL7012
  - beige RAL1001

# Custom colours on request Made in the UK Output Ou

#### **TECHNICAL FEATURES**

- Corrosion resistant salt spray tested to ISO9227:2022, ASTMB117-19
- Polyester powder coating meeting EN13501-1 classification A2-s1,d0
- Non-combustible as set out in Approved Document B (fire safety) Volume 1: Dwellings, 2019 Edition
- Manufactured from 0.9mm electro-galvanised sheet steel, fire class A1 "no contribution to fire"
- Free Areas:
  - 204x60 size 11,007 mm<sup>2</sup>, 90% free area
  - 220x90 size 18,222 mm<sup>2</sup>, 92% free area
  - 208x130 size 24,660 mm<sup>2</sup>, 91% free area

#### **COMPLIES WITH**

- Performance tested to BS EN13141-2-2010
- · Rated and tested to IPX3 against water ingress
- Corrosion resistant salt spray tested to BS EN ISO 9227:2012
- Complies with Approved Document F Volume1, 2021 edition

#### ALL MODELS REGISTERED DESIGNS:

- FRAB204x60 Registered Design No: 6261188
- FRAB204x60x100 Registered Design No: 6263780
- FRAB204x60B Registered Design No: 6261189
- FRAB204x60x100B Registered Design No: 6263781
- FRAB220x90 Registered Design No: 6261190
- FRAB220x90x100 Registered Design No: 6263782
- FRAB220x90B Registered Design No: 6261191
- FRAB220x90x100B Registered Design No: 6263783
- FRAB208x130 Registered Design No: 6261192
- FRAB208x130x100 Registered Design No: 6263784
- FRAB208x130B Registered Design No: 6261193
- FRAB208x130x100B Registered Design No: 6263785

Vectaire Ltd can supply all accessories for use with these units, including air filter cassettes, silencers, fire dampers, air valves and ducting, 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.

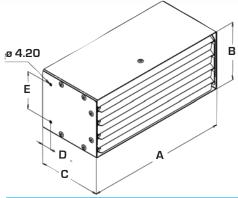


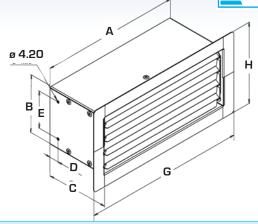


#### MODELS AVAILABLE:

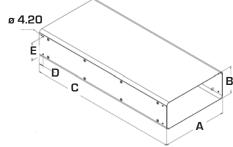
204 x 60MM SIZE	220 x 90MM SIZE	208 x 130mm size	DESCRIPTION
FRAB204x60	FRAB220x90	FRAB208x130	Metal Air Brick 500mm
FRAB204x60x100	FRAB220x90x100	FRAB208x130x100	Metal Air Brick 100mm
FRAB204x60B	FRAB220x90B	FRAB208x130B	Metal Air Brick Bezelled 500mm
FRAB204x60x100B	FRAB220x90x100B	FRAB208x130x100B	Metal Air Brick Bezelled 100mm
FR204x60D	FR220x90D	FR208x130D	Duct - 500mm
FR204x60C	FR220x90C	FR208x130C	Connector - straight
FR204x60B45	FR220x90B45	FR208x130B45	Connector - 45° Bend
FR204x60B90	FR220x90B90	FR208x130B90	Connector - 90º Bend

# **Dimensions**



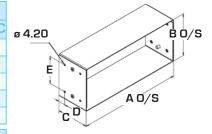


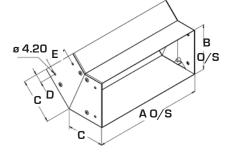
		Stan	dard and Bezelled	Fire Rated Air Bri	ck			
	FRAB FRAB		FRAB	FRAB	FRAB	FRAB		
	204x60 &B	204x60 &B	220x90 & B	220x90 &B	208x130 & B	208x130& B		
	(100mm)	(100mm) (500mm) (100mm) (500mm)		(100mm)	(500mm)			
Α	208.6		224	1.6	212.6			
В	62.8		92	2.8	132.8			
С	100	500	100	500	100 500			
D	15	5	15		10			
Е	30		60		75			
G	245		261		249			
Н	101		131		171	171		



		Duo	ct - 500 mm	
		FR204x60D	FR220x90D	FR208x130D
ľ	Α	204	220	208
ľ	В	60	90	130
3	С	500	500	500
ľ	D	15	15	20
ſ	Е	30	60	75

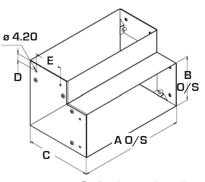
		Connector - Straight									
		FR204x60C	FR220x90C	FR208x1300							
	Α	209	225	213							
	В	63	93	133							
	С	70	70	70							
	øD	15	15	10							
	Е	30	60	75							





	Connector - 45 Dend						
	FR204x60B45	FR220x90B45	FR208x130B4				
Α	209	225	213				
В	63	93	133				
С	66	78	95				
D	15	15	10				
Е	30	60	75				

Connector - 90° Bend								
	FR204x60B90	FR220x90B90	FR208x130B9					
Α	209	225	213					
В	63	93	133					
С	110	140	180					
D	15	15	10					
Е	30	60	75					

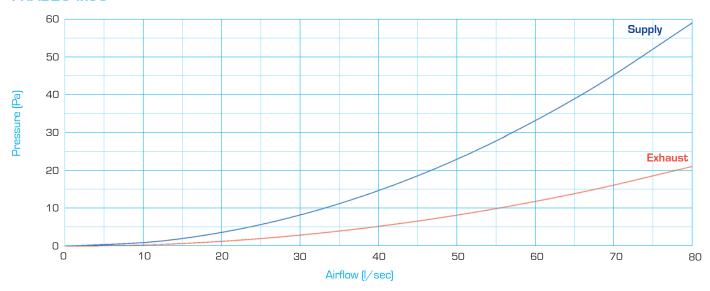


Email: sales@vectaire.co.uk Web: www.vectaire.co.uk

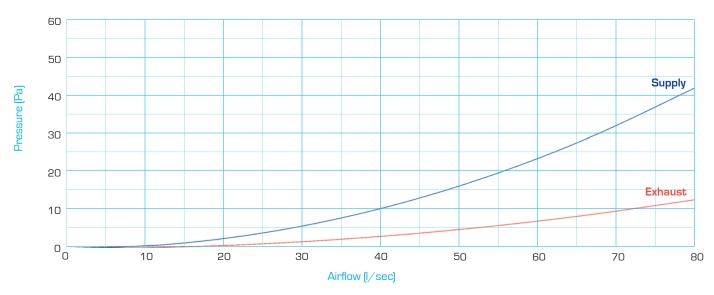
# Performance



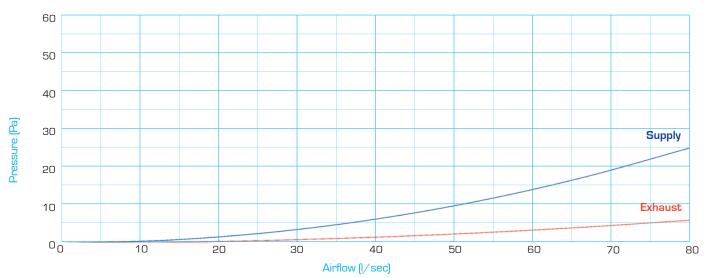
#### FRAB204x60



#### FRAB220x90

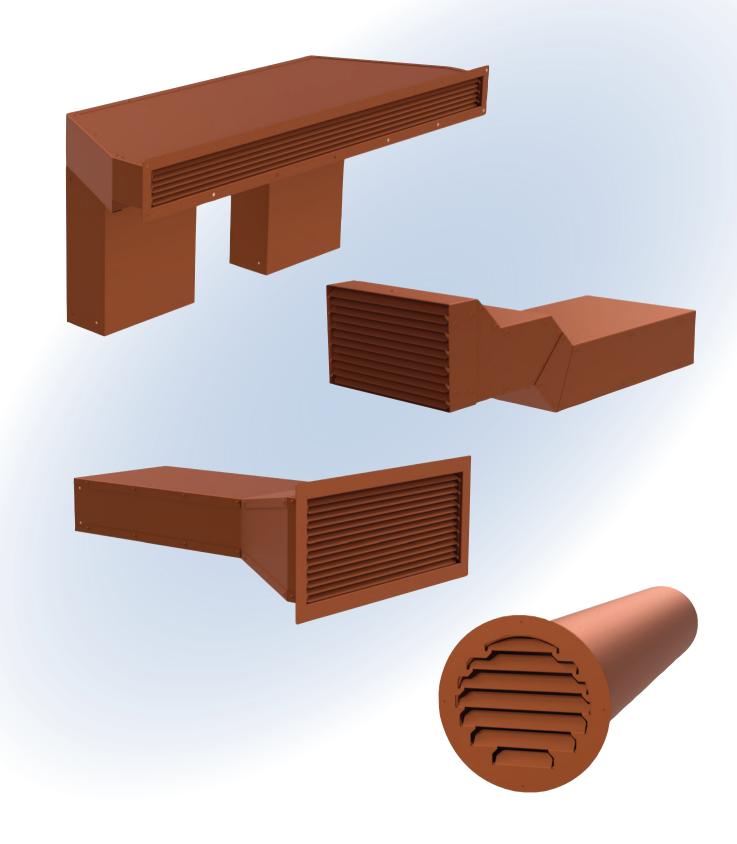


#### FRAB208x130





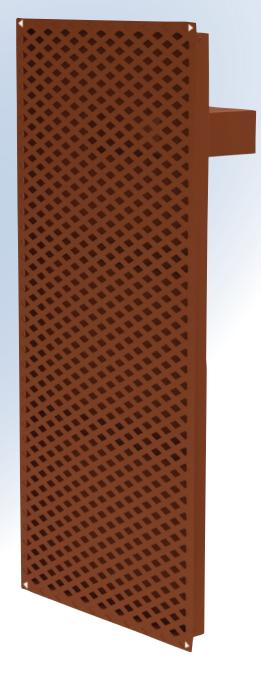




# **Custom Made Designs**







# Thermal Self Seal Ducting - Rectangular and Round



#### 2 sizes rectangular, 2 sizes round

- Push, click and lock system allows fixing position by one person
- Pre-moulded connection system provides added strength and
- Air leakage minimised
- 4 sizes, 2 rectangular and 2 round to suit any installation
- Energy saving reduces heat transfer through ventilation duct
- High thermal properties to reduce heat loss in ducting
- Especially for installation in unheated areas
- Helps prevent condensation on or in duct
- Larger sizes suitable for purge ventilation
- Low air resistance
- Made from Neopor® graphite impregnated expanded

- polystyrene infra red absorbers and reflectors improve thermal resistance.
- Neospor® meets thermal conductivity requirements BASF-EN13163 to help with condensation prevention
- Flame Retardant to DIN 4102 B1
- Ducting has minimum density of 25kg/m³
  Thermal conductivity of 0.03W/mK, providing minimum ther mal resistance or "R" value of 0.666 m<sup>2</sup>K/W @ at 20mm thickness
- Exceeds current UK Domestic Ventilation Regulations Part F
- Joint integrity exceeds requirements in DW/143 Class A Leakage Test and DW/154 ductwork standards.
- Airflow performance independently tested by BRE

	Model	Size	Box Qty		Model	Size	Box Qty
THERMAL SELF SEAL	. FLAT DUCTING - 2N	I LENGTH		THERMAL SELF SE	EAL ROUND DUCTING	- 2M LENGTH	
	TSS-204-2M TSS-220-2M	204 x 60 mm 220 x 90 mm	6 6		TSS-125-2M TSS-160-2M	125 mm 160 mm	6 6
THERMAL SELF SEAL	. FLAT DUCTING - 90	)° HORIZONTAL BEND		THERMAL SELF SE	EAL ROUND DUCTING	-90° BEND	
THERMAL SELF SEAL	TSS-204-90HB TSS-220-90HB		6 6		TSS-125-90B TSS-160-90B	125 mm 160 mm	6 6
	TSS-204-45HB		6	THERMAL SELF SE	EAL ROUND DUCTING	- 45° BEND	
THERMAL SELF SEAL	TSS-220-45HB  FLAT DUCTING - 90	)° VERTICAL BEND	6		TSS-125-45B TSS-160-45B	125 mm 160 mm	6 6
	TSS-204-90VB TSS-220-90VB		6 6	THERMAL SELF SE	EAL ROUND DUCTING	- "T" PIECE	
THERMAL SELF SEAL	. FLAT DUCTING - 45	° VERTICAL BEND					
	TSS-204-45VB TSS-220-45VB		6 6		TSS-125-TP TSS-160-TP	125 mm 160 mm	6 6
THERMAL SELF SEAL	. Flat Ducting - Ad	APTOR ROUND TO FLAT	7	160мм то 15	OMM ADAPTOR		
	TSS-204-PL TSS-220-PL	204 x 60 mm 220 x 90 mm	6 6		TSS-160-AD	160 mm	6
THERMAL SELF SEAL	. FLAT DUCTING -"T"			CONNECTOR - DU	JCT TO FITTING		
	TSS-204-TP TSS-220-TP	204 x 60 mm 220 x 90 mm	6 6		TSS-125-DFCON	. — —	6
CONNECTOR - DUCT	TO FITTING				TSS-160-DFCON	160 mm	6
	TSS-204-DFCON TSS-220-DFCON	204 x 60 mm 220 x 90 mm	6 6	CONNECTOR - DI	ЈСТ ТО ВИСТ		
CONNECTOR - DUCT	TO DUCT CONNECTO	OR			TSS-125-DDCON		6
MIL	TSS-204-DDCON TSS-220-DDCON		6 6		TSS-160-DDCON	160 mm	6

# Plastic Flat Ducting - 3 sizes



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

	Model	Size/Description	Box Qty			Model	Size/Description	Box Qty
FLAT DUCTING -	1.5m length		•		ADAPTOR ROUND	TO FLAT - VERTIC	AL BEND - OFFSET SPIGOT	
	VPFD	1500mm long	20			VPAVBSA4	100mm spigot	10
	VPFDS	_				VPAVBSA5	125mm spigot	10
		1500mm long	5					
$\checkmark$	VPFDM	1500mm long	3			VPAVBSA6	150mm spigot	10
FLAT DUCTING -	2M LENGTH					VPAVBM4	100mm spigot	6
	\ /DED	0000	4.0			VPAVBM5	125mm spigot	6
	VPFD-2M	2000mm long	10			VPAVBM6	150mm spigot	6
	VPFDS-2M	2000mm long	5		"T" PIECE			
	VPFDM-2M	2000mm long	2		I PIECE			
LINIVEDONI DUG	-					VPT	110 x 54	20
UNIVERSAL DUC						VPTS	204 x 60	10
						VPTM	220 x 90	6
	VPFDS-UD	204 x 60	10		DECTANGUI AD EI	EVIDLE DUCTING		
	VI 1 DO OD	LO-1 X OO	.0		RECTANGULAR FI			
~						VFD110/.5	110 x 54mm x .5m	1
CONNECTOR						VFD110/3	110 x 54mm x 3m	1
						VFD204/.5	204 x 60mm x .5m	1
	VPC	110 x 54	20			VFD204/3M	1 204 x 60mm x 3m	1
	VPCS	204 x 60	10			VFD220/.5	220 x 90mm x .5m	1
	VPCM	220 x 90	6			VFD220/3	220 x 90mm x 3m	1
MOUNTING DOAG	NET					,	220 X 30111111 X 3111	
MOUNTING BRAC	KEI				WALL PLATE - FL	AT CHANNEL		
	VPMB	110 x 54	10		0 0	VPAWP		10
	VPMBS	204 x 60	10			VPAWPS		10
	VPMBM	220 x 90	10			VPAWPM		6
								U
90° HORIZONTA	L BEND				FIXED GRILLE WIT	TH RECTANGULAR	R SPIGOT AND FLYSCREEN	
	VPHB	110 x 54	20			VPFG	W, B, COT or TC	20
	VPHBS	204 x 60	10					20
	VPHBM	220 x 90	6		4	(for 110mm)	x 54mm duct size only)	
45		LLOXOO	J					
45° HORIZONTA	L BEND				GRAVITY GRILLE	WITH RECTANGU	ILAR SPIGOT	
	VPHB45	110 x 54	20			VPGG	W, B, COT or TC	20
	VPHBS45	204 x 60	10				x 54mm duct size only)	LO
	VPHBM45	220 x 90	6		4	(ווווווווווווווווווווווווווווווווווווו	x 54mm duct size only	
AD ILICTADI E LIC		LLO X OO	J					
ADJUSTABLE HO	RIZUNTAL BEND				AIRBRICK ADAPT	OR		
	VPAHBS	204 x 60	10			VPAB/AD	(VFPD only)	20
90º VERTICAL B	END				AIRBRICK			
	VPVB	110 x 54	20		Ambriok			
						VPAB	W, B, COT or TC	20
	VPVBS	204 x 60	10				, _ ,	
	VPVBM	220 x 90	6		ADADTOD 201		s') то 220мм x 90мм (	רי אי
45° VERTICAL B	FND				ADAPTUR • 204		ן וט בבטואוואו א שטואוואו נ	IVI J
TO VEHIOLE B								
	VPVB45	110 x 54	20			VPAS-M	W, B, COT or TC	10
	VPVBS45	204 x 60	10		\			
	VPVBM45	220 x 90	6		DOUBLE AIRBRIC	V ADADTOD		
ADAPTOR ROUNI	TO ELAT				DOUBLE AIRBRIG	K ADAPTOR		
ADAPTON HOUSE								
	VPA	100mm dia spigot	20			VPDAB/ADM	1 Megaduct only	10
	VPAS	125mm dia spigot	10			,	,	
	VPAM	150mm dia spigot	6		DOUBLE AIRBRIC	v		
					DOUBLE AIRBRIG	K.		
ADAPTOR ROUNI	TO FLAT - VERT	ICAL BEND						
_	VPAVB	100mm dia spigot	20			VPDAB	W, B, COT or TC	20
	VPAVBS4	100mm dia spigot	10					
					AIRBRICK COWL			
	VPAVBS5	125mm dia spigot	10					
	VPAVBS6	150mm dia spigot	10		FOT	PLT-DAB-10-V	WCB .	6
White = W: Brow	n = B: Beige = CO	T: Terracotta = TC						
Tel: +44(0)1494 52 Fax: +44(0)1494 52				Page 99	le.		Email: sales@vectai Web: www.vectai	

# Ducting and Ancillaries



VPEDSIL5   2014 60mm x 5m		Model	Size/Descri	ption	Box Qty			Model	Size/Description	Box Qty
VPEDMISL5   220 x 90mm x 5m   1	SILENCER				Guy		TELESCOPIC DUCT	- 8"-14"		,
NTUMESCENT DUCT SLEEVES FOR VFPD   VFDDS   110 x S4mm   1								VTD12-200	5"/12cm	10
NTILMESCENT DUT SLEEVES FOR YFPD   YFPD SD   204 x 60 mm   1							RIGID DUCT - 14'		0 / 13611	10
VPFDDS	INTUMESCENT D	JCT SLEEVES FO	R VFPD						4"/10cm	10
NUMBER   PRESERVE   PROPERTY							$\bigcirc$	VRD5-350	,	10
NTUMESCENT FIRE SLEEVE					-			VRD6-350	6"/15cm	10
FS204/100   204 x50 x100mm   1		VPFDIVI-D2	220 X 90Mn	ר	1		RIGID DUCT - 100	Омм		
NTUMESCENT FIRE DAMPER	INTUMESCENT FI	RE SLEEVE								
NTUMESCENT FIRE DAMPER		FC004 /400	0040040	20	4		$\bigcirc$		·	
POAINT   4"/10cm   1		F5204/ 100	204 X60 X TU	JUMM	ı		000		6"/15cm	3
FOSINT   5'/12cm   1	INTUMESCENT FIR	E DAMPER					RIGID DUCT - 200		411 / 4.0	-
FUSINI		FD4INT	,		1					
PRIED DUCT POINT   PRIOR			*		-					
FD4			6"/15cm		1		RIGID DUCT CONNI		- /	
PLASTIC FLEMIBLE DUCTING	FIRE DAMPER - FU		411 /4 0		4				4"/10cm	10
PLASTIC FLEXIBLE DUCTING			,					,	*	
PLASTIC FLEXIBLE DUCTING			*					VRD6/C	6"/15cm	10
VFD4/3	DI ACTIO EI EVIDI I	DUCTING	,				RIGID DUCT FIXING	BRACKET		
VFD4/5	PLASTIC FLEXIBLE		411 /4 0	0	40			VRD4/FB	4"/10cm	10
VFD4/10		,	,					,	*	10
VFD5/3		•	,				5	VRD6/FB	6"/15cm	10
VFDB/6   5"/12cm   6m   1	1484		•				RIGID DUCT T PIEC	E		
VFD6/6   6'/15cm   3m   4   VFD6/16   6''/15cm   6m   1   VFD6/10   6''/15cm   10m   1   RIGID DUCT Y PIECE   VFD8/3   8''/20cm   3m   1   VFD8/6   8'/20cm   6m   1   VFD8/6   8'/20cm   6m   1   VFD10/6   10''/25cm   3m   1   VFD10/6   10''/25cm   6m   1   VFD315/3   12''/31.5cm   6m   1   VFD315/3   12''/31.5cm   6m   1   VFD315/6   12''/31.5cm   6m   1   VFD315/10   12''/31.5cm   6m   1   VFD315/10   12''/31.5cm   10m   1   VFD6/10INS 6''/15cm   10m   1   VFD6/10AL 6''/15cm   10m   1	THE REAL PROPERTY.	,	,							
VFD6/10   6"/15cm   10m   1     RIGID DUCT Y PIECE     VFD8/3   8"/20cm   3m   1   VFD8/6   8"/20cm   6m   1   VFD10/3   10"/25cm   6m   1   VFD10/6   12"/31.5cm   6m   1   VFD15/10   12"/31.5cm   6m   1   VFD15/10   12"/31.5cm   10m   1   VFD6/10INS 5"/12cm   10m   1   VFD6/10INS 5"/12cm   10m   1   VFD6/10INS 6"/15cm   10m   1   VFD6/10INS 6"/15cm   10m   1   VFD6/10INS 6"/15cm   10m   1   VFD6/10INS 6"/15cm   10m   1   VFD6/10AL 5"/12cm   10m   1   VFD6/10AL 5"/12cm   10m   1   VFD6/10AL 5"/12cm   10m   1   VFD6/10AL 5"/12cm   10m   1   VFD6/10AL 6"/15cm   10m   1   VFD6/10AL 6"/15cm   10m   1   VFD6/10AC 6"/15cm   10m   1	E. B. C. L.	VFD6/3	6"/15cm	3m	4			,		
VFDB/3	2/10/1	· ·			1			•	p./ 10cm	10
VFDB/6	3		-	10m	1		RIGID DUCT Y PIEC			
VFD10/3			,					VRD4/Y	4"/10cm	10
VFD10/6		•	-				4.7			
VFD315/3 12"/31.5cm 3m 1 VFD315/6 12"/31.5cm 6m 1 VFD315/6 12"/31.5cm 6m 1 VFD315/10 12"/31.5cm 10m 1  INSULATED ALUMINIUM FLEXIBLE DUCTING  VFD4/10INS 4"/10cm 10m 1 VFD6/10INS 6"/15cm 10m 1 VFD8/10INS 8"/15cm 10m 1 VFD9/10AL 4"/10cm 10m 1 VFD9/10AL 5"/12cm 10m 1 VFD6/10AL 6"/15cm 10m 1 VFD6/10AL 6"/15cm 10m 1 VFD6/10AL 6"/15cm 10m 1 VFD8/10AC 6"/15cm 10m 1 VFD8/10AC 8"/15cm 10m 1 VFD8/10AC 8"/10cm 10m 1 VFD8/10AC 8"/10cm 10m 1 VFD8/10AC 8"/10cm 10m 1 V				_	1		RIGID DUCT 90° B	END		
VFD315/6		•	•		1		60		4"/10cm	10
VFD315/10 12"/31.5cm 10m 1   RIGID DUCT 45° BEND   VRDB45/4 4"/10cm 10   VFD6/10lNS 5"/12cm 10m 1   VFD6/10lNS 5"/12cm 10m 1   VFD6/10lNS 6"/15cm 10m 1   VFD6/10lNS 6"/15cm 10m 1   VFD6/10lNS 8"/15cm 10m 1   ROUND GRILLE WITH FLYSCREEN   T10   4"/10cm 10   T10   A"/10cm 10   T10   T1		,	,						•	
VRDB45/4 4"/10cm		,	,					,	6"/15cm	10
VFD4/10INS 4"/10cm 10m 1 VFD5/10INS 5"/12cm 10m 1 VFD6/10INS 6"/15cm 10m 1 VFD8/10INS 8"/15cm 10m 1 VFD8/10INS 8"/15cm 10m 1 VFD8/10INS 8"/15cm 10m 1 VFD4/10AL 4"/10cm 10m 1 VFD5/10AL 5"/12cm 10m 1 VFD6/10AL 6"/15cm 10m 1 VFD6/10AL 6"/15cm 10m 1 VFD6/10AC 4"/10cm 10m 1 VFD6/10AC 4"/10cm 10m 1 VFD6/10AC 5"/12cm 10m 1 VFD6/10AC 5"/12cm 10m 1 VFD6/10AC 6"/15cm 10m 1 VFD6/10AC 8"/15cm 10m 1 VFD8/10AC 8"/15cm 10m 1	INSULATED ALUM	IINIUM FLEXIBLE	DUCTING				RIGID DUCT 45° B		411.74.5	
VFD5/10INS 5"/12cm         10m         1           VFD6/10INS 6"/15cm         10m         1           VFD8/10INS 8"/15cm         10m         1           ROUND GRILLE WITH FLYSCREEN           VFD4/10AL 4"/10cm         10m         1           VFD5/10AL 5"/12cm         10m         1           VFD6/10AL 6"/15cm         10m         1           ACOUSTIC ALUMINIUM FLEXIBLE DUCTING         10m         1           VFD4/10AC 4"/10cm         10m         1           VFD5/10AC 5"/12cm         10m         1           VFD6/10AC 6"/15cm         10m         1           VFD6/10AC 6"/15cm         10m         1           VFD8/10AC 8"/15cm         10m         1           Tel: +44(0)1494 522333         Page 100    **RED4/3P 10cm-7.5cm 10cm 1		VFD4/10INS	4"/10cm	10m	1					
VFDB/10INS 8"/15cm   10m   1		VFD5/10INS	5"/12cm		1			VNDD43/ 3	J / 12611	10
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 TAPE/ADHESIVES  VFD6/10AC 6"/15cm 10m 1 VFD8/10AC 8"/15cm 10m		,	,				ROUND GRILLE WIT	TH FLYSCREEN		
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  VFD5/10AC 5"/12cm 10m 1  VFD6/10AC 6"/15cm 10m 1  VFD8/10AC 8"/15cm 10m 1  VFD8/10AC		VFD8/10INS	8"/15cm	10m	1		HOUSE OF THE CAN		4"/10cm	10
VFD4/10AL 4"/10cm       10m       1         VFD5/10AL 5"/12cm       10m       1         VFD6/10AL 6"/15cm       10m       1         ACOUSTIC ALUMINIUM FLEXIBLE DUCTING       10m       1         VFD4/10AC 4"/10cm       10m       1         VFD5/10AC 5"/12cm       10m       1         VFD6/10AC 6"/15cm       10m       1         VFD8/10AC 8"/15cm       10m       1         VFD8/10AC 8"/15cm       10m       1         Page 100       Email: sales@vectaire.co.uk	ALUMINIUM FLEX	IBLE DUCTING					CIRCUII AR REDUCE		,	
VFD5/10AL 5"/12cm       10m       1         VFD6/10AL 6"/15cm       10m       1         ACOUSTIC ALUMINIUM FLEXIBLE DUCTING       10m         VFD4/10AC 4"/10cm       10m         VFD5/10AC 5"/12cm       10m         VFD6/10AC 6"/15cm       10m         VFD8/10AC 8"/15cm       10m         1       TAPE/ADHESIVES         PVCDT       PVC Duct Tape       1         VFD8/10AC 8"/15cm       10m       1         DDSeal       Duct Seal       1         MAS87       Intumescent Mastic       1         Tel: +44(0)1494 522333       Page 100       Email: sales@vectaire.co.uk		•	,						10cm-7.5cm	10
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  Page 100  Page 100  RED6/5P 15cm-12cm 10  RED8/6P 20cm-15cm 10  TAPE/ADHESIVES  PVCDT PVC Duct Tape 1  DDSeal Duct Seal 1  MAS87 Intumescent Mastic 1  Tel: +44(0)1494 522333		,	,						12cm-10cm	10
VFD4/10AC       4"/10cm       10m       1       RED8/6P       20cm-15cm       1         VFD5/10AC       5"/12cm       10m       1       TAPE/ADHESIVES       TAPE/ADHESIVES       1         VFD6/10AC       6"/15cm       10m       1       PVCDT       PVC Duct Tape       1         VFD8/10AC       8"/15cm       10m       1       DDSeal       Duct Seal       1         Tel: +44{[0]1494 522333       Page 100       Email: sales@vectaire.co.uk		•	,	TUM	1		(((()))	,		
VFD5/10AC 5"/12cm 10m 1 TAPE/ADHESIVES  VFD6/10AC 6"/15cm 10m 1 PVCDT PVC Duct Tape 1  VFD8/10AC 8"/15cm 10m 1 DDSeal Duct Seal 1  MAS87 Intumescent Mastic 1  Tel: +44(0)1494 522333 Page 100 Email: sales@vectaire.co.uk	ACOUSTIC ALUMI							,		
VFD6/10AC       6"/15cm       10m       1       PVCDT       PVC Duct Tape       1         VFD8/10AC       8"/15cm       10m       1       DDSeal       Duct Seal       1         MAS87       Intumescent Mastic       1         Tel: +44{[0]1494 522333       Page 100       Email: sales@vectaire.co.uk		,	,				TADE / ADUCEN/EQ	*	ZOUTH TOUTH	ı
VFD8/10AC       8"/15cm       10m       1       DDSeal       Duct Seal       1         MAS87       Intumescent Mastic       1         Tel: +44[0]1494 522333       Page 100       Email: sales@vectaire.co.uk							TAPE/ ADHESIVES		DVC Duct Taba	1
Tel: +44[0]1494 522333         Page 100         MAS87         Intumescent Mastic         1           Email: sales@vectaire.co.uk         5         5         6         6         6         6         6         7         6         7		,	,						·	
		-,	,		•					-
						Page 100				

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

# **Ducting and Ancillaries**



	Model	Size/Description	Box Qty		Model	Size/Description	Box Qty
ADAPTOR PLATES	3			WALL COWLS			
	PLT/EL	Elegance	1		VWC	4"-6"	1
	PLT/ELX	Elix	1		VWC4	4"/10cm	1
	PLT/ES1003		1	(1)	VWC5	5"/12cm	1
	PLT/ES1003S1	2 E-Smile	1		VWC6	6"/15cm	1
	PLT/ES1003/S		1	PLASTIC FIXED GR	ILLES		
	PLT/ECO10	ECO	1		FG4	4"/10cm	1
	PLT/E001030x3	80 ECO	1		FG5	5"/12cm	1
WALL VENT KITS					FG6	6"/15cm	1
	AWVK10/4	4"/10cm	10	PLASTIC FIXED GR	III I ES WITH ELV	(SCDEEN)	
	AWVK12/5	5"/12cm	10	PEAGIIO TIXED OR			4
	AWVK15/6	6"/15cm	10		FG4F FG5F	4"/10cm	1
METAL DUCT JOIL	NING PIECE				FG6F	5"/12cm 6"/15cm	1
	DJP4	4"/10cm	1			0 / 136111	1
	DJP5	5"/12cm	1	PLASTIC GRAVITY	GRILLES		
	DJP6	6"/15cm	1		GG4	4"/10cm	1
	DJP8	8"/20cm	1		GG5	5"/12cm	1
	DJP10	10"/25cm	1		GG6	6"/15cm	1
	DJP12	12"/30cm	1			White = W: Brown = B:	
METAL "Y" SECTI	ION					. Grilles will be supplied in v	vhite
	YP4	4"/10cm	1	unless requested	d otherwise at	t time of ordering	
	YP5	5"/12cm	1				
	YP6	6"/15cm	1	IN WALL ATTENUA	ATORS		
	YP8	8"/20cm	1	~	VIWA4	4"/10cm - with grille	1
METAL "T" SECTI	ON				VIWA4C	4"/10cm - with cowl	1
	TP4	4"/10cm	1		VIWA4QF	4"/10cm - with quick fit	1
	TP5	5"/12cm	1		) //) A / A E	cowl	4
Charles of the	TP6	6"/15cm	1		VIWA5 VIWA5C	5"/12cm- with grille 5"/12cm - with cowl	1 1
9	TP8	8"/20cm	1		VIVVAJC	5"/12cm - with quick fit	
METAL AIR VALVI	ES WITH FIRE DA	MPER			VIWA5QF	cowl	1
	VAV4+FD	4"/10cm	1	VAVALL TERRAINIAT	ION KITO		
	VAV5+FD	5"/12cm	1	WALL TERMINAT	ION KITS	411 /40 1-1-1	
	VAV6+FD	6"/15cm	1		VWTK4	4"/10cm-high rise-wall 350mm duct-internal	1
WORM DRIVE CU		_ /				installation	•
WORM DRIVE CLI		411 /4 0	4		VWTK-Gas	4"/10cm only for VWTK4	1
	WDC4	4"/10cm	1 1		VWTK6	6"/15cm - as WWTK4	1
	WDC5 WDC6	5"/12cm 6"/15cm	1		VWTC4	4"/10cm-round wall cow	1 1
	WDC8	8"/20cm	1		VWTC6	for internal installation 6"/15cm - as VWTC4	1
	WDC10	10"/25cm	1		***************************************	0 / 100m d0 VV/104	•
	WDC12/16	12"-16"	1	ROOF TERMINATIO	ON KITS		
	,				RTK4	4"/10cm - Kit	1
DUCT SLEEVE					RT4	4"/10cm - Cowl	1
	VRD4-DS	4"/10cm	1				
	VRD5-DS	5"/12cm	1	PLASTIC AIR VALV	'ES		
	VRD6-DS	6"/15cm	1		VAV4	4"/10cm	1
DUCT JOINING				de	VAV5	5"/12cm	1
	DW25N	Duct Wrap-1.2mx13m	1		VAV6	6"/15cm	1
	PVCDT	PVC Duct Tape	1	10		·	
	DT75	Aluminium Foil Duct Tape	1	CONDENSATION T	RAPS		
	DDSeal	Duct Seal	1		VCT4	4"/10cm	1
				(III)	VCT4P	4"/10cm- with overflow	
				8	VCT5P	5"/12cm- with overflow	
					VCTED	6" / 15cm with everflow	

VCT6P

6"/15cm- with overflow 1

# **VENTILATION**

# FOR THE BUILT ENVIRONMENT

low energy environmentally friendly economical

