VENTILATION FOR THE BUILT ENVIRONMENT

low energy environmentally friendly economical



systems

Uniclass L7534

CI/SfB



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/I/s
- Up to 95 l/s at 50Pa max 101 l/s capacity
- Models with integral humidistat
- Commissioned via integral LCD or remote LCD commissioning unit

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

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

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/I/s
- Up to 230 l/s at 50Pa max 238 l/s capacity
- Models with integral humidistat
- Commissioned via integral LCD or remote LCD commissioning unit

EVO250 (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/I/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/l/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/l/s
- Up to 55 l/s at 50Pa max 59 l/s capacity
- Models with integral humidistat
- Commissioned via remote LCD commissioning unit

Mini (MVHR) - Page 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 lengthsWith summer bypass and frost-stat

Fire Rated Air Bricks - Page 92

Page 3

- 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

MVHR



Vertical Models - features and overview

		Midi			Maxi		Maxi Plus			
	S*	H*	AT*	S*	H*	AT*	S*	H*	AT*	
Automatic Summer Bypass	1	1	1	1	1	1	1	1	1	
Automatic Frost Protection	1	1	1	1	1	1	1	1	1	
Filters	1	1	1	1	1	1	1	1	1	
Delay Timer	1	1	1	1	1	1	1	1	1	
Purge Speed (factory set)	1	1	1	1	1	1	1	1	1	
Purge Speed Timer	1	1	1	1	1	1	1	1	1	
Built-in Humidistat	×	1	on request	×	1	on request	×	1	on request	
Universal Handing (non-humidistat models)	1	×	1	1	×	1	1	×	1	
Very low noise levels	1	1	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/	
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/.4	
% 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 5	64 x 382	648 x 595 x 395	754 x 6	54 x 535	802 x 703 x 560	754 x 654 x 535		802 x 70 x 560	
Weight kg	E	24	29	З	7	42	37		42	
Approximate Mass kg	2	24	29	з	7	42	3	37	42	
Enhanced Acoustic Attenuation	×	×	1	×	×	1	×	×	1	

S* - standard models

H* - models with integral humidistat

AT* - models with integral acoustic attenuation

MVHR



Horizontal Models - features and overview

	EVO	250	EVO	220	EVO	350	Stu	ıdio	Μ	lini
	S*	H*	S*	H*	S*	H*	S*	H*	S*	H*
Automatic Summer Bypass	1	1	1	1	1	1	1	1	1	1
Automatic Frost Protection	1	1	1	1	1	1	1	1	1	1
Filters	1	 Image: A second s	1	1	1	1	1	1	1	1
Delay Timer	1	1	1	1	1	1	1	1	1	1
Purge Speed (factory set)	1	1	1	1	1	1	1	1	1	1
Purge Speed Timer	1	1	1	1	1	1	1	1	1	1
Built-in Humidistat	×	1	×	1	×	1	×	1	×	1
Universal Handing (non-humidistat models)	1	×	×	×	1	×	×	×	×	×
Very low noise levels	1	1	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			12	25	20	00	12	25	12	25
or mm x mm	204	x 60		-		-		-		-
Wired Remote Control (optional)	 ✓ 	1	1	1	1	1	1	1	1	1
External Condensate	1	1	1	1	1	1	1	1	1	1
Size mm W x H x D	750 x 6	50 x 250	634 x 55	54 x 220	795 x 65	54 x 355	552 x 534 x 220		400 x40)0 x 220
Weight kg	2	1	2	2	2	5	17		9	
Approximate Mass kg	2	1	2	2	2	5	1	17		Э

S*

 standard models
 models with integral humidistat Н*

Vertical MVHR Midi, Maxi and Maxi Plus

vectaire

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

They tackle condensation in areas from $60m^2$ to $400m^2$ making them ideal for all residential dwellings, whether houses, apartments or student accommodation with the most powerful models also being suitable for hotels, care homes, multioccupancy establishments and other commercial properties.

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

How They Work

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

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

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

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

Summer Bypass

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

Frost Protection

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

Humidity Control

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

"Super Silent"

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

LCD Control

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

TYPICAL INSTALLATION



Cooled outgoing stale air MVHR

TOP VIEW OF HANDING FOR HUMIDISTAT MODELS



MVHR LCD Controller





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

LCD Touch Screen Functions

Display shows:

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

LCD Touch Screen Functions for USER

- screen allows USER to set and control:
- time

>

- date
- reset the filter saturation level after filters have been changed
- holiday mode sets system to minimum running, saving
- energy whilst maintaining air quality
- operating speed
- language



Commissioning Options - these options are ONLY for use by the installer, and can only be used with a Commissioning Access Code. If an incorrect passcode is entered 5 times consecutively the system will automatically lock for one hour. Access permissions are lost every time the option screen is exited.

Setting Time: sets up 12 or 24hr format, DST (daylight saving time) and time zone.	Language Selection
Setting Date: sets date format	Touch Screen Calibration
Holiday Mode: sets system to minimum running when required (factory set to maintain air quality)	Commissioning Screen
Boost Speed Time Delay	Night Time Boost Inhibitor
Boost Speed Over-run Timer	Screen Cleaning: wipe screen safely without deleting settings
Run Time Counter and Filter Saturation	Exit to main screen

Page 7









Midi

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

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

TECHNICAL FEATURES

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



MODELS AVAILABLE:

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

LCD, right drain, humidistat

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

CONTROL FEATURES - STANDARD

- independent variable speed adjustment for each motor for trickle, boost and purge speeds.
- adjustable boost speed over-run timer from 0 to 90 minutes.
- adjustable boost speed delay from 0 to 5 minutes
- remote purge 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
 - 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
- For installation in any domestic wet room
- CE marked
- SAP PCDB Listed

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



TECHNICAL CHARACTERISTICS											
Model	Airflow I/sec					Total Power - Watts					Operating - Current
	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	lidi	S	Sound Power Levels, L_w (dB) - Octave Bands Frequency Hz.									
Curve Ref		63	125	250	500	1k	2k	4k	8k	dBA @ 3m		
4.000	Extract	65	61	58	48	41	34	26	23			
100% (101 l/sec)	Supply	70	74	69	60	57	50	44	43			
	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			
(, 0, , 000)	Breakout	52	51	50	46	41	34	32	28	29.9		
CO 8/	Extract	55	49	45	39	29	19	10	7			
60% (58 l/sec)	Supply	60	62	56	47	45	34	27	21			
	Breakout	47	51	46	43	38	27	25	24	26.6		
400/	Extract	47	38	38	32	17	8	З	6			
40% (36 l/sec)	Supply	52	51	47	38	31	22	13	8			
	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			
	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 - u	sing rigid ducti	ng only	1							
	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

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

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



Midi BY-AT

with integral acoustic attenuation

GENERAL FEATURES

- extremely low noise levels
- up to 95 litre/sec at 50Pa max 101 litre/sec capacity
- sfp down to 0.50 W/I/s
- summer bypass which allows the airflow to bypass the heat exchanger automatically when internal and external temperatures are between adjustable setpoints.
- frost-stat proportionally reduces intake motor speed as temperature falls - activated when the outside temperature between +8°C and -3°C.
- run-time and power outage counters
- easy to install and maintain no extra cabinet required
- easy to access G3 filters
- universal handing for models without humidistat left or right (see separate diagram on page 6 for handing on humidistat models)
- for fitting vertically into lofts, or cupboards wall fixing bracket supplied weight only 29 kgs
- variable low (trickle), boost and purge options for each motor
- boost speed can be activated by a 230V switched live from:
 - A light switch (if more than one light switch is used, each one must be a double pole switch)
 - Remote humidistat (230V DRH240)
 - Passive infra red (230V PIRFF)
 - Thermostat (230V THM)
- Remote switch/pull cord 230V
- low running costs
- 5 year warranty 1 year parts and labour, 4 years parts only

TECHNICAL FEATURES

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



MODELS AVAILABLE:

- 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
 - 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)
- 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

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Midi-BY-AT

with integral acoustic attenuation

Midi-E	Y-AT	Sound	Power Le	vels, <i>L_w</i> (dB) - Oct	ave Band	ls Freque	ncy Hz.	Sound Pressure	Noise Rating based on	
Curve Ref		125	250	500	1k	2k	4k	8k	dBA @ 3m	dB @ 1m	
400%	Extract	61	58	48	41	34	26	23			
100% (101 l/sec)	Supply	74	69	60	57	50	44	43			
	Breakout	52	49	42	39	35	36	21	28.3	34	
000	Extract	56	53	45	37	29	21	16			
80% (79 l/sec)	Supply	70	65	55	53	44	39	36			
	Breakout	47	45	36	35	27	29	13	23.4	28	
60%	Extract	49	45	39	29	19	10	7			
60% (58 l/sec)	Supply	62	56	47	45	34	27	21			
	Breakout	39	36	31	28	19	20	7	15.8	21	
40 0/	Extract	38	38	32	17	8	3	6			
40% (36 l/sec)	Supply	51	47	38	31	22	13	8			
	Breakout	29	33	22	15	6	5	6	9.8	15	
000/	Extract	31	20	10	4	0	2	6			
20% (14 l/sec)	Supply	32	27	13	8	1	2	6			
	Breakout	20	16	12	7	1	2	6	<5.0	<10	
The breakout dB(A) sound pressure values are given for hemispherical free field propagation at a distance of 3m from the unit											
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

TILOULIU IUI UAI UALUULATIUNU							
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	0.50	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 condition	S						

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Midi-BY-AT

with integral acoustic attenuation

TECHNICAL CHARACTERISTICS											
Model		ЭС	Total Power - Watts					Operating - Current			
IVIOUEI	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

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

Maxi



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

TECHNICAL FEATURES

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



MODELS AVAILABLE:

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

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

CONTROL FEATURES - STANDARD

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







TECHNICAL CHARACTERISTICS											
Model	Airflow I/sec						Operating - Current				
	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	1 axi	S	Sound Power Levels, L_w (dB) - Octave Bands Frequency Hz.									
Curve Ref		63	125	250	500	1k	2k	4k	8k	dBA @ 3m		
	Extract	52	57	61	58	59	58	55	50			
100% [177 l/sec]	Supply	57	62	66	63	64	63	60	55			
	Breakout	54	55	60	56	43	39	30	21	38.1		
200	Extract	48	53	55	53	54	52	49	42			
80% (138 l/sec)	Supply	53	58	60	58	59	57	54	47			
	Breakout	52	55	57	54	42	37	28	22	35.9		
200	Extract	42	47	48	46	47	45	40	32			
60% (99 l/sec)	Supply	47	52	53	51	52	50	45	37			
	Breakout	51	54	54	51	41	35	26	22	33.2		
100/	Extract	36	40	40	37	38	36	30	18			
40% (60 l/sec)	Supply	41	45	45	42	43	41	35	23			
	Breakout	48	51	46	40	29	25	19	22	24.2		
200	Extract	27	29	27	22	22	19	8	10			
20% 23 l/sec)	Supply	32	34	32	27	27	24	15	17			
20, 300	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 37/3-1/2010												

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 condition	S										

Maxi

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





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



with integral acoustic attenuation

GENERAL FEATURES

- extremely low noise levels
- up to 163 litre/sec at 50Pa max 177 litre/sec capacity
- sfp down to 0.40 W/I/s
- summer bypass which allows the airflow to bypass the heat exchanger automatically when internal and external temperatures are between adjustable setpoints.
- frost-stat proportionally reduces intake motor speed as temperature falls - activated when the outside temperature between +8°C and -3°C.
- run-time and power outage counters
- easy to install and maintain no extra cabinet required
- easy to access G3 filters
- universal handing for models without humidistat left or right (see separate diagram on page 6 for handing on humidistat models)
- for fitting vertically into lofts, or cupboards wall fixing bracket supplied weight only 42 kgs
- variable low (trickle), boost and purge options for each motor
- boost speed can be activated by a 230V switched live from:
 - A light switch (if more than one light switch is used, each one must be a double pole switch)
 - Remote humidistat (230V DRH240)
 - Passive infra red (230V PIRFF)
 - Thermostat (230V THM)
- Remote switch/pull cord 230V
- low running costs
- 5 year warranty 1 year parts and labour, 4 years parts only

TECHNICAL FEATURES

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



MODELS AVAILABLE:

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

CONTROL FEATURES - STANDARD

- independent variable speed adjustment for each motor for trickle, boost and purge speeds.
- adjustable boost speed over-run timer from 0 to 90 minutes.
- adjustable boost speed delay from 0 to 5 minutes
- remote purge 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
 - CO₂ 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



with integral acoustic attenuation

Max	ki BY AT	S	ound Power	r Levels, L_w	(dB) - Octa	ve Bands F	requency H	z.	Sound Pressure	Noise Rating based on	
Curve Re	ef	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 a	nd Supply val	ues are in-o	duct sound	power level	S						

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												

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with integral acoustic attenuation

TECHNICAL CHAF	TECHNICAL CHARACTERISTICS													
Model		irflow l/se	ec		Operating									
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





Weight - 42 kg

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



Maxi Plus BY









Maxi Plus BY

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

- universal handing for models without humidistat
- very quiet
- low running costs
- complies with Building Regulations
- 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, forward curved impellors
- operates in temperature up to 60°C
- easy to access standard, disposable G3 filters
- counter flow heat exchanger



MODELS AVAILABLE:

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

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

CONTROL FEATURES - STANDARD

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



Maxi Plus BY

TECHNICAL CHAP	TECHNICAL CHARACTERISTICS													
Model		rflow I/se	ес			Operating - Current								
	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	Plus BY	S	Sound Power Levels, L_w (dB) - Octave Bands Frequency Hz.									
Curve Ref		63	125	250	500	1k	2k	4k	8k	dBA @ 3m		
1000	Extract	67	63	66	64	64	61	58	54			
100% (238 l/sec)	Supply	72	68	71	69	69	66	63	59	1		
	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]		
	Breakout	62	59	60	52	45	44	39	28	37.4		
50%	Extract	58	52	53	51	51	48	43	35			
60% (135 l/sec)	Supply	63	57	58	56	56	53	48	40			
	Breakout	58	54	57	45	39	37	31	25	32.8		
408/	Extract	51	44	44	42	42	37	31	21			
40% (84 l/sec)	Supply	56	49	49	47	47	42	36	26			
	Breakout	52	47	48	41	36	31	26	23	26.0		
000	Extract	40	32	30	29	27	24	14	16			
20% (35 l/sec)	Supply	45	37	35	34	32	29	22	25			
Breakout 44 36 34 33 31 28 20 21 20.4												
The breakout dB(A) sound pressure values are given for hemispherical free field propagation at a distance of 3m from the unit												
Extract and Supply values are in-duct sound power levels												
All the shows	data has heen i	ndonondo	ntly tostor			3 1.0010	1					

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	0.75	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 condition	S					1					

vectaire

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

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



with integral acoustic attenuation

GENERAL FEATURES

- extremely low noise levels
- Up to 230 litre/sec at 50Pa max 238 litre/sec capacity
- sfp down to 0.46 W/I/s
- summer bypass which allows the airflow to bypass the heat exchanger automatically when internal and external temperatures are between adjustable setpoints.
- frost-stat proportionally reduces intake motor speed as temperature falls - activated when the outside temperature between +8°C and -3°C.
- run-time and power outage counters
- easy to install and maintain no extra cabinet required
- easy to access G3 filters
- universal handing for models without humidistat left or right (see separate diagram on page 6 for handing on humidistat models)
- for fitting vertically into lofts, or cupboards wall fixing bracket supplied weight only 42 kgs
- variable low (trickle), boost and purge options for each motor
- boost speed can be activated by a 230V switched live from:
 - A light switch (if more than one light switch is used, each one must be a double pole switch)
 - Remote humidistat (230V DRH240)
 - Passive infra red (230V PIRFF)
 - Thermostat (230V THM)
- Remote switch/pull cord 230V
- low running costs
- 5 year warranty 1 year parts and labour, 4 years parts only

TECHNICAL FEATURES

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



MODELS AVAILABLE:

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

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
 - 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

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



with integral acoustic attenuation

Maxi Plu	s BY AT	Sound	Power Le	evels, <i>L_w</i> (dB) - Oct	ave Band	ls Freque	ncy Hz.	Sound Pressure	Noise Rating based on	
Curve Ref		125	250	500	1k	2k	4k	8k	dBA @ 3m	dB @1m	
100%	Extract	61	63	57	49	43	34	28			
[238 l/sec]	Supply	75	79	74	66	63	52	52			
	Breakout	61	61	56	49	52	46	29	41.1	47	
80%	Extract	57	59	51	44	37	28	23			
00% (186 l/sec)	Supply	71	71	66	60	58	46	47			
	Breakout	57	57	48	43	44	38	22	34.9	40	
e00/	Extract	51	55	45	36	27	15	8			
60% (135 l/sec)	Supply	64	68	60	51	48	34	29			
	Breakout	51	54	42	37	36	28	10	28.9	37	
40%	Extract	49	44	35	26	17	4	6			
40% (84 l/sec)	Supply	59	52	48	41	36	19	12			
	Breakout	52	38	36	25	21	11	7	20.7	26	
	Extract	36	36	28	12	З	2	6			
20% 35 l/sec)	Supply	42	41	31	21	12	2	6			
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)



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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



with integral acoustic attenuation

TECHNICAL CHARACTERISTICS												
Model		ec		Operating - Current								
IVIOUEI	100%	80%	60%	40%	20%	100%	80%	60%	40%	20%	(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 $60m^2$ and $200m^2$ making them ideal for all residential dwellings, whether houses, apartments or student accommodation with the most powerful models also being suitable for hotels, care homes, multi-occupancy establishments and other commercial properties.

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

How They Work

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

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

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

Summer Bypass

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

Frost Protection

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

Humidity Control

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

LCD Control

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







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MVHR LCD Controller





For use with all Vectaire Heat Recovery Units

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

LCD Touch Screen Functions

Display shows:

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

LCD Touch Screen Functions for USER

- screen allows USER to set and control:
- time

>

- date
- reset the filter saturation level after filters have been changed
- holiday mode sets system to minimum running, saving
- energy whilst maintaining air quality
- operating speed
- language



Commissioning Options - these options are ONLY for use by the installer, and can only be used with a Commissioning Access Code. If an incorrect passcode is entered 5 times consecutively the system will automatically lock for one hour. Access permissions are lost every time the option screen is exited.



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

Setting Date: sets date format

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



Boost Speed Over-run Timer

Run Time Counter and Filter Saturation

<u>A</u>
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ili
-

Language Selection

Touch Screen Calibration

Commissioning Screen



Night Time Boost Inhibitor



Screen Cleaning: wipe screen safely without deleting settings

Exit to main screen

Tel: +44(0)1494 522333 Fax: +44(0)1494 522337 Page 33



EV0250







EV0250DC

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

- low noise levels
- low running costs
- complies with Building Regulations
- 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:

- EV0250DC/BABY bottom access, bypass
- EV0250DC/BALBYH bottom access, left hand, bypass, humidistat
- EV0250DC/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
- 0-10V connections can be added for:
 - BMS for remote motor shut-off
 - CO₂ detector
 - home automation system
- relay for external pre-heater
- 3 speed selector switch
- 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		A	irflow l/se	ec			Operating					
IVIOUEI	100%	80%	60%	40%	20%	100%	80%	60%	40%	20%	- Current (Amps)	
EV0250	85	67	48	30	12	101	53	23	9	2	0.93	

EVO)250	S	Sound Power Levels, L_w (dB) - Octave Bands Frequency Hz.									
Curve Ref		63	125	250	500	1k	2k	4k	8k	dBA @ 3m		
4.000	Extract	63	60	62	64	61	59	60	50			
100% (85 l/sec)	Supply	68	65	67	69	66	64	65	55			
	Breakout	66	58	54	50	41	33	28	16	33.4		
000/	Extract	59	57	58	58	56	53	53	42			
80% (67 l/sec)	Supply	64	62	63	63	61	58	58	47			
	Breakout	62	55	50	44	36	27	21	8	28.7		
CO ⁰ /	Extract	54	51	51	52	49	46	43	31			
60% (48 l/sec)	Supply	59	56	56	57	54	51	48	36			
[10 / 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			
	Breakout	49	42	35	28	20	10	< 5	< 5	14.1		
0.00%	Extract	33	33	29	28	24	20	5	З			
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						
PERFORMANCE [curves are for guidance only]













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



GENERAL FEATURES

- up to 70 litre/sec at 50Pa max 75 litre/sec capacity
- sfp down to 0.55 W/I/s
- summer bypass which allows the airflow to bypass the heat exchanger automatically when internal and external temperatures are between adjustable setpoints.
- frost-protection proportionally reduces intake motor speed as temperature falls - activated when the outside temperature between +8°C and -3°C.
- run-time and power outage counters
- easy to install and maintain
- for ceiling, loft or void in-line installation
- variable low (trickle), boost and purge options for each motor
- boost speed can be activated by a 230V switched live from:
 - A light switch (if more than one light switch is used, each one must be a double pole switch)
 - Remote humidistat (230V DRH240)
 - Passive infra red (230V PIRFF)
 - Thermostat (230V THM)
 - Remote switch/pull cord 230V
- very low noise levels
- low running costs
- 5 year warranty 1 year parts and labour, 4 years parts only

TECHNICAL FEATURES

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



MODELS AVAILABLE:

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

code.

- COMPLIES WITH • Building Regulations for enhanced energy saving capability
- Building Regulations for reliable, efficient ventilation
- EU RoHS Directive Compliant.

CONTROL FEATURES - STANDARD

trickle, boost and purge speeds.

purge facility)

as temperature falls

with rising humidity

automatic summer bypass

CONTROL FEATURES - FACTORY SET

threshold can be set at manufacture)

O-10V connections can be added for:

home automation system

CO₂ detector

relay for external pre-heater 3 speed selector switch

(adjustable at factory)

BMS - for remote motor shut-off

independent variable speed adjustment for each motor for

adjustable boost speed over-run timer from 0 to 90 minutes.

remote purge cable connection on circuit board (for optional

integral frost-stat - proportionally reduces intake motor speed

change of ductwork handing on humidistat version (humidity

integral humidistat - proportionally increases motor speeds

optional remote purge cable - factory connected - adjustable over-run timer from 0 to 250 minutes, Pre-set to 15 minutes

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

adjustable boost speed delay from 0 to 5 minutes

adjustable night time boost and purge inhibitor

- 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

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TECHNICAL CHARACTERISTICS											
Model	Airflow I/sec Total Power - Watts								Operating		
IVIOUEI	100%	80%	60%	40%	20%	100%	80%	60%	40%	20%	- Current (Amps)
EV0220DC	75	58	42	26	10	96	52	26	11	5	0.93

EVO2	220DC	S	ound Pow	ver Levels	, <i>L_w</i> (dB) -	Octave E	Bands Fre	quency H	Z.	Sound Pressure
Curve Ref		63	125	250	500	1k	2k	4k	8k	dBA @ 3m
4.000/	Extract	63	62	63	64	61	59	58	49	
100% (75 l/sec)	Supply	68	67	68	69	66	64	63	54]
	Breakout	66	60	55	50	41	33	26	21	34.0
000/	Extract	59	58	58	58	56	53	51	41	
80% (58 l/sec)	Supply	64	63	63	63	61	58	56	46	
	Breakout	62	56	50	44	36	27	19	15	28.9
223/	Extract	54	53	52	52	49	47	43	32	
60% (42 l/sec)	Supply	59	58	57	57	54	52	48	37	
	Breakout	57	51	44	38	29	21	11	9	23.2
409/	Extract	47	47	45	44	41	38	32	19	
40% (26 l/sec)	Supply	52	52	50	49	46	43	37	24	
	Breakout	50	45	37	30	21	12	7	6	16.2
000	Extract	37	40	36	35	29	25	18	11	
20% (10 l/sec)	Supply	42	45	41	40	34	30	23	16	
(Breakout		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	j only		
		2012 Data	
Exhaust Terminal Configuration	Airflow (l⁄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 o	wn laboratory		

PERFORMANCE (curves are for guidance only)

















- 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



GENERAL FEATURES

- up to 107 litre/sec at 50Pa max 116 litre/sec capacity
- sfp down to 0.65 W/I/s
- summer bypass which allows the airflow to bypass the heat exchanger automatically when internal and external temperatures are between adjustable setpoints.
- frost-stat proportionally reduces intake motor speed as temperature falls - activated when the outside temperature between +8°C and -3°C.
- run-time and power outage counters
- easy to install and maintain
- for ceiling, loft or void in-line installation
- variable low (trickle), boost and purge options for each motor
- boost speed can be activated by a 230V switched live from:
 - A light switch (if more than one light switch is used, each one must be a double pole switch)
 - Remote humidistat (230V DRH240)
 - Passive infra red (230V PIRFF)
 - Thermostat (230V THM)
 - Remote switch/pull cord 230V
- very low noise levels
- low running costs
- 5 year warranty 1 year parts and labour, 4 years parts only

TECHNICAL FEATURES

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



MODELS AVAILABLE:

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

CONTROL FEATURES - STANDARD

- independent variable speed adjustment for each motor for trickle, boost and purge speeds.
- adjustable boost speed over-run timer from 0 to 30 minutes.
- adjustable boost speed delay from 0 to 5 minutes
- remote purge 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
 - 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
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- SAP PCDB Listed

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TECHNICAL CHARACTERISTICS											
Model	Airflow I/sec Total Power - Watts							Operating			
IVIOUEI	100%	80%	60%	40%	20%	100%	80%	60%	40%	20%	- Current (Amps)
EV0350	116	90	64	38	14	157	83	39	15	4	1.41

EVC)350	S	ound Pow	ver Levels	, <i>L_w</i> (dB) -	Octave E	Bands Fre	equency H	z.	Sound Pressure
Curve Ref		63	125	250	500	1k	2k	4k	8k	dBA @ 3m
4000	Extract	63	65	64	63	60	57	54	49	
100% (116 l/sec)	Supply	68	70	69	68	65	62	59	54]
	Breakout	66	63	56	49	40	31	22	15	34.6
000	Extract	59	61	60	58	54	52	48	41	
80% (90 l/sec)	Supply	64	66	65	63	59	57	53	46	
Breakout		62	59	52	44	34	26	16	9	30.3
000	Extract	53	55	54	52	48	45	40	32	
60% (64 l/sec)	Supply	58	60	59	57	53	50	45	37	
	Breakout	56	53	46	38	28	19	8	5	24.3
400/	Extract	46	48	46	43	39	35	29	17	
40% (38 l/sec)	Supply	51	53	51	48	44	40	34	22	
	Breakout	49	46	38	29	19	9	7	< 5	16.5
0.00%	Extract	35	36	32	28	24	20	7	5	
20% (14 l/sec)	Supply	40	41	37	33	29	25	12	10	
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											

PERFORMANCE (curves are for guidance only)





Weight - 25 kg

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



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

TECHNICAL FEATURES

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

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

independent variable speed adjustment for each motor for trickle, boost and purge speeds.

CONTROL FEATURES - STANDARD

- 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 CF marked
- SAP PCDB Listed

TYPICAL SPECIFICATION AVAILABLE AT

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



STUDIO - OPTION 2 (LEFT HAND DRAIN)



- **MVHR** EXTRACT TO ATMOSPHER
- Warmed fresh air Extracted warm, moist, stale air

ROOM

Incoming fresh air

Cooled outgoing stale air





Fax: +44(0)1494 522337

organise installation, commissioning and maintenance of these products.

RESULTS for SAP CALCULATIONS							
ENERGY LEVEL PERFORMANCE - u	sina riaid ducti	na onlv					
		<u> </u>					
	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 condition	IS		-				

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

TECHNICAL CHARACTERISTICS											
Model	Airflow I/sec Total Power - Watts							Operating - Current			
Widdei	100%	80%	60%	40%	20%	100%	80%	60%	40%	20%	(Amps)
Studio	59	45	30	17	6	100	57	25	10	2	0.93

Sound Power Levels, L_w (dB) - Octave Bands Frequency Hz.

1k

2k

< 5

4k

< 5

< 5

8k

< 5

< 5

З

< 5

The breakout dB(A) sound pressure values are given for hemispherical free field propagation at a distance of 3m from the unit

Studio

Studio

100%

80%

60%

40%

20%

6 l/sec]

Curve Ref

(59 l/sec)

(45 l/sec)

(30 l/sec)

[17 l/sec]

Extract

Supply

Extract

Supply

Breakout

Extract

Supply

Extract

Supply

Breakout

Extract

Supply

Breakout

Breakout

Breakout

Sound Pressure dBA @ 3m

36.3

31.8

26.1

18.4

<10.0

vectaire

PERFORMANCE (curves are for guidance only)



DIMENSIONS - mm



Weight - 17 kg

N.B a clearance of at least 200 mm should be allowed at the back of the unit for access to the filters,

Ø125

220

 \square











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

TECHNICAL FEATURES

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

Extracted warm, moist, stale air Cooled outgoing stale air

counter flow heat exchanger

Incoming fresh air Warmed fresh air

WHHR Mini DC

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

CONTROL FEATURES - STANDARD

- independent variable speed adjustment for each motor for trickle, boost and purge speeds.
- adjustable boost speed over-run timer from 0 to 90 minutes.
- adjustable boost speed delay from 0 to 5 minutes
- remote purge 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 CF marked
- SAP PCDB listed

TYPICAL SPECIFICATION AVAILABLE AT

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

WHHR MINI DC OPTION 2 (LEFT HAND DRAIN)

WHHR MINI DC OPTION 1 (RIGHT HAND DRAIN)



- bypass
- bypass
- 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

TO BEDROOM

DRAIN CONTROLLER ACCESS PANEL FRESH AIR IN

MODELS AVAILABLE:

- WHHR Mini LB left drain,
- WHHR Mini RB right drain,
- WHHR Mini LBH left drain,



TECHNICAL CHARACTERISTICS											
Model		Ai	rflow I/se	ec		Total Power - Watts					Operating - Current
IVIOUEI	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	ound Pow	ver Levels	, <i>L_w</i> (dB) -	Octave B	Bands Fre	quency H	Z.	Sound Pressure
Curve Ref		63	125	250	500	1k	2k	4k	8k	dBA @ 3m
1000	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	
Breakout		62	63	56	50	38	28	18	9	34.6
CO 0/	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	
(, , 000)	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	
(_ , 200)	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 ConfigurationSpecific Fan Power (W/I/sec)Heat Exchange EfficiencySpecific Fan Power (W/I/sec)Heat Fan Power (W/I/sec)Specific Exchange EfficiencyHeat Exchange Efficiency											
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





DIMENSIONS - mm

220

Ø125

82

236

82





Weight - 9 kg

69 79

127

146

127

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









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

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 l/s capacity

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

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TECHNICAL CHARACTERISTICS									
	Airflow I/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_w</i> (dB) -	Octave E	Bands Fre	quency H	Z.	Sound Pressure
Curve Ref		63	125	250	500	1k	2k	4k	8k	dBA @ 3m
4000	Extract	58	64	65	61	59	57	53	57	
100% (200 l/sec)	Supply	64	69	70	66	65	63	58	63	
	Breakout	62	62	56	45	37	29	18	20	33.2
80% Extract	Extract	53	58	58	54	53	51	44	46	
80% (148 l/sec)	Supply	58	64	64	59	58	56	50	52	
	Breakout	56	56	50	39	31	22	9	9	27.0
CO ⁰ /	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
400/	Extract	44	46	44	40	39	34	26	13	
40% (74l/sec)	Supply	50	52	50	45	44	40	32	19	
	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	ver Levels	, <i>L_w</i> (dB) -	Octave E	Bands Fre	quency H	Z.	Sound Pressure
Curve Ref		63	125	250	500	1k	2k	4k	8k	dBA @ 3m
400%	Extract	58	60	65	63	64	62	58	58	
100% (251 l/sec)	Supply	63	65	70	68	69	67	63	63	
	Breakout	61	58	57	49	44	36	26	24	34.4
80% [188 l/sec] Extract Supply Breakout	Extract	53	55	59	56	57	55	50	48	
	Supply	58	60	64	61	62	60	55	53	
	Breakout	56	53	51	42	37	29	18	14	28.2
000	Extract	49	50	52	49	50	48	42	39	
60% (141 l/sec)	Supply	54	55	57	54	55	53	47	44	
	Breakout	52	48	44	35	30	22	10	5	21.6
409/	Extract	43	42	43	40	41	38	32	25	
[94 I/sec]	Supply	48	47	48	45	46	43	37	30	
	Breakout	46	40	35	26	21	12	< 5	< 5	13.0
The breakout dB(A) sound pressure values are given for hemispherical free field propagation at a distance of 3m from the unit										

PERFORMANCE (curves are for guidance only)

Purge-Box 100



DIMENSIONS - mm

Purge-Box 100 - 7kgs



Purge-Box 200



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











Microbox 125/2DC

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

- cost savings compared to multi-spigot installation
- low noise levels
- low running costs
- available with 204 x 60mm spigot
- humidistat model available
- complies with Building Regulations
- manufactured in UK to ISO 9001:2015 and 14001:2015



GENERAL FEATURES

- up to 97 litre/sec at 50Pa max 108 litre/sec capacity
- sfp down to 0.20 W/I/s
- easy and economical to install and maintain
- for ceiling, loft or void in-line installation
- can be angled horizontally or vertically
- variable low (trickle), boost and purge options purge option 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





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
- MBOX125/2DC204H spigot 204mm x 60mm and integral humidistat

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



TECHNICAL CHARACTERISTICS											
							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 12	5/2DC	S	ound Pow	er Levels	, <i>L_w</i> (dB) -	Octave B	Bands Fre	equency H	Ζ.	Sound Pressure
Curve Ref		63	125	250	500	1k	2k	4k	8k	- dBA @ 3m
	Extract	53	58	59	55	54	52	48	52	
Max Boost (108 l/sec)	Supply	58	63	64	60	59	57	53	57	
	Breakout	56	56	51	41	34	26	16	18	28.2
NA	Extract	52	57	58	54	53	51	46	50	
Max Trickle (101 l/sec)	Supply	57	62	63	59	58	56	51	55	_
	Breakout	55	55	50	40	33	25	14	16	27.2
22 21	Extract	48	53	53	49	48	46	40	42	
80% (80 l/sec)	Supply	53	58	58	54	53	51	45	47	_
	Breakout	51	51	45	35	28	20	8	8	22.5
222	Extract	45	49	47	43	42	39	32	32	
60% (60 l/sec)	Supply	50	54	52	48	47	44	37	37	_
	Breakout	48	47	39	29	22	19	< 5	< 5	17.4
400	Extract	40	42	40	36	35	31	24	12	
40% [40 l/sec]	Supply	45	47	45	41	40	36	29	17	
	Breakout	43	40	32	22	15	5	< 5	< 5	10.5
The breakout	dB(A) sound pr	essure valu	ues are giv	en for her	mispherica	al free field	d propaga	tion at a d	istance o	f 3m from the unit
Extract and S	upply values ar	e in-duct s	ound pow	er 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							

PERFORMANCE (curves are for guidance only)



DIMENSIONS - mm





MBOX125/2DC204





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











Microbox 200/2DC

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

- cost savings compared to multi-spigot installation
- low noise levels
- low running costs
- humidistat model available
- complies with Building Regulations
- manufactured in UK to ISO 9001:2015 and 14001:2015



GENERAL FEATURES

- up to 233 litre/sec at 50Pa max 251 litre/sec capacity
- sfp down to 0.27 W/I/s
- easy and economical to install and maintain
- for ceiling, loft or void in-line installation
- can be angled horizontally or vertically
- variable low (trickle), boost and purge options purge option 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



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											
							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	ver Levels	, <i>L_w</i> (dB) -	Octave B	Bands Fre	quency H	Z.	Sound Pressure	
Curve Ref		63	125	250	500	1k	2k	4k	8k	- dBA @ 3m	
	Extract	58	60	65	63	64	62	58	58		
Max Boost (251 l/sec)	Supply	63	65	70	68	69	67	63	63		
	Breakout	61	58	57	49	44	36	26	24	34.4	
NA	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	_	
(,	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		
(1117,000)	Breakout	52	48	44	35	30	22	10	5	21.6	
109/	Extract	43	42	43	40	41	38	32	25		
40% [94 l/sec]	Supply	48	47	48	45	46	43	37	30		
	Breakout	46	40	35	26	21	12	< 5	< 5	13.0	
The breakout	dB(A) sound pro	essure valu	ues are giv	en for her	mispherica	al free field	d propaga	tion at a d	listance o	f 3m from the unit	
Extract and S	upply values ar	e in-duct s	ound pow	er levels							

RESULTS for SAP CALCULATIONS ENERGY LEVEL PERFORMANCE - using rigid ducting or	۱y		
	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** I/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

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Elegance "**16**" - EL1003

GENERAL FEATURES

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

- 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 terminatio

Wall terminations – all wall terminations must use the approved wall cowl or high rise $\ensuremath{\mathsf{kit}}$

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Elegance "**16**" - EL1003

TECHNICAL CHARACTERISTICS									
Madal	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 0.7 1.2 3.5 15.1 17.3 31.4							31.4		

RESULTS for SAP CALCULATIONS - SAP2012 data 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 - SAP2012 data ENERGY LEVEL PERFORMANCE - using flexible ducting only

5	5 ,						
Unit Configuration	Specific Fan Power (W/I/s)	EST Best Practice Performance Compliant	Flow Rate (l/sec)				
In room - kitchen	0.13	Yes	13.0				
In room - wetroom	0.11	Yes	8.0				
Through wall - kitchen	0.09	Yes	13.0				
Through wall - wetroom	0.09	Yes	8.0				
Figures from BRE test results at minimum flow rate conditions							

Elegance "**16**" - EL1003

PERFORMANCE (curves are for guidance only)



DIMENSIONS - mm



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



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



GENERAL FEATURES

- exhausts directly to the outside (through wall, or with medium length ducting)
- 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
- EL12O3DT 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

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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

- 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



GENERAL FEATURES

- exhausts directly to the outside or through long lengths of ducting (up to 15m)
- sfp down to 0.14 W/I/s
- easy and economical to install and maintain
- runs continuously at pre-selected choice of two speeds (fixed at installation)
- Speed 1 operates at 8.9 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

- 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

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



TECHNICAL CHARACTERISTICS									
	Airflow I/sec			Po	ower - Wat	ts	dBA (@	3m in free field)	
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 - SAP2012 data ENERGY LEVEL PERFORMANCE - using rigid ducting only							
Unit Configuration	Specific Fan Power (W/I/s)	EST Best Practice Performance Compliant	Flow Rate (l⁄sec)				
In room - kitchen	0.22	Yes	13.0				
In room - wetroom	0.16	Yes	8.0				
Through wall - kitchen	0.17	Yes	13.0				
Through wall - wetroom 0.14 Yes 8.0							
Figures from BRE test results at minimum	n flow rate conditions						

PERFORMANCE (curves are for guidance only)



DIMENSIONS - mm





Elprex "16" - ELP2204









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

Elprex "16" - ELP2204



GENERAL FEATURES

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

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

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 ICOMPLIES 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

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

Surface Mounted Installation





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

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

Wall Plates - as required

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

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Elprex "16" - ELP2204

TECHNICAL CHARACTERISTICS												
Model	Airflow I/sec			Power - Watts				dBA (@ 3m in free field)				
Model	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 0.47					
Results from our own laborato	ry - SAP2012 data				

Elprex "16" - ELP2204

PERFORMANCE (curves are for guidance only)



DIMENSIONS - mm



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



Weight - 2.8 kg



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



GENERAL FEATURES

- exhausts directly to the outside or through medium length ducting up to 8m)
- sfp down to 0.37 W/I/s
- runs continuously at pre-selected choice of two speeds (fixed at installation)
- Speed 1 operates at 11 I/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

E-Smile - ES1003



TECHNICAL CHARACTERISTICS									
Model	Airflow I/ sec			Po	ower - Wat	ts	dBA (@	3m in free field)	
	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 - SAP2012 data ENERGY LEVEL PERFORMANCE - using rigid ducting only							
Unit Configuration	Specific Fan Power (W/I/s)	EST Best Practice Performance Compliant	Flow Rate (l/sec)				
In room - kitchen	0.55	Yes	14.2				
In room - wetroom	0.61	Yes	11.1				
Through wall - kitchen	0.37	Yes	15.5				
Through wall - wetroom 0.45 Yes 9.7							
Figures from BRE test results at minimum	n flow rate conditions						

RESULTS for SAP CALCULATIONS - SAP2012 data ENERGY LEVEL PERFORMANCE - using flexible ducting only							
Unit Configuration Specific Fan Power (W/I/s) EST Best Practice Performance Compliant Flow Rate [I/sec]							
In room - kitchen	0.57	Yes	13.0				
In room - wetroom	0.61	Yes	10.3				
Through wall - kitchen	0.37	Yes	15.5				
Through wall - wetroom 0.45 Yes 9.7							
Figures from BRE test results at minimum	n flow rate conditions						

vectaire

E-Smile - ES1003

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

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

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 - EL100 and EL150



TECHNICAL CHARACTERISTICS									
Model	Airflow I/sec		Pressu	ire - 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
A	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°C, the air extract motor will be automatically switched off, whilst the air intake motor will continue to operate, ensuring a quick and efficient change of air inside the room. When the outside temperature is higher than 26°C, the air intake motor will be switched off to ensure ventilation without increasing the temperature.

INTEGRAL FROST-STAT

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

COMPLIES WITH

- 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



- 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
- HHEC1003H1500 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.

Heatrec 1003



TECHNICAL CHARACTERISTICS										
Model	Airflow I/sec			Po	wer - Wat	ts	dBA (@	9 3m in fre	n free field)	
Wodel	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 mm², 90% free area 220x90 size - 18,222 mm², 92% free area 208x130 size - 24,660 mm², 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



- 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 mm², 90% free area
 - 220x90 size 18,222 mm², 92% free area
 - 208x130 size 24,660 mm², 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 FRAB204x60

FRAB204x60 FRAB204x60B FRAB204x60B FRAB204x60D FR204x60D FR204x60C FR204x60B45

220 x 90mm size

FRAB220x90 FRAB220x90x100 FRAB220x90B FRAB220x90x100B FR220x90D FR220x90C FR220x90B45 FR220x90B90

208 x 130mm size

FRAB208x130 FRAB208x130x100 FRAB208x130B FRAB208x130x100B FR208x130D FR208x130D FR208x130B45 FR208x130B90 Page 93

DESCRIPTION

Metal Air Brick 500mm Metal Air Brick 100mm Metal Air Brick Bezelled 500mm Metal Air Brick Bezelled 100mm Duct - 500mm Connector - straight Connector - 45° Bend Connector - 90° Bend

FR204x60B90



Fire Rated Air Bricks

Dimensions





	Standard and Bezelled Fire Rated Air Brick									
	FRAB	FRAB	FRAB	FRAB	FRAB	FRAB				
	204x60 &B	204x60 &B	220x90 & B	220x90 &B	208x130 & B	208x130& B				
	(100mm)	(500mm)	(100mm)	(500mm)	(100mm)	(500mm)				
А	208	3.6	224	1.6	212.6					
В	62.8		92	2.8	132.8					
С	100	500	100	500	100	500				
D	15	5	15	İ	10					
E	30)	60		75					
G	245		261		249					
Н	101		131		171					



	Duct - 500 mm								
	FR204x60D	FR220x90D	FR208x130D						
Α	204	220	208						
В	60	90	130						
С	500	500	500						
D	15	15	20						
E	30	60	75						

	Connector - Straight					
	FR204x60C FR220x90C FR208x130					
А	209	225	213			
В	63	93	133			
С	70	70	70			
øD	15	15	10			
Е	30	60	75			

FR204x60

А

В

С

D

70	70	70	\sim
15	15	10	
30	60	75	Ċ
Conne	ctor - 45º Ben	d	
04x60B45	FR220x90B45	FR208x130B4	
209	225	213	
63	93	133	
66	78	95	
15	15	10	









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



Performance

vectaire

FRAB204x60



Thermal Self Seal Ducting - Rectangular and Round

Box

Qty



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 stability
- Air leakage minimised
- 4 sizes, 2 rectangular and 2 round to suit any installation
- Energy saving reduces heat transfer through ventilation duct work
- 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

Model

- Low air resistance
- Made from Neopor® graphite impregnated expanded

Size

	mouor	U IEU	<u> </u>
THERMAL SELF SEAL I	LAT DUCTING - 2M	LENGTH	
	TSS-204-2M TSS-220-2M		6 6
THERMAL SELF SEAL	-LAT DUCTING - 90	^e Horizontal Bend	
	TSS-204-90HB TSS-220-90HB		6 6
THERMAL SELF SEAL	FLAT DUCTING - 45	^e Horizontal Bend	
	TSS-204-45HB TSS-220-45HB		6 6
THERMAL SELF SEAL	FLAT DUCTING - 90	^e Vertical Bend	
	TSS-204-90VB TSS-220-90VB		6 6
THERMAL SELF SEAL	FLAT DUCTING - 45	^e Vertical Bend	
	TSS-204-45VB TSS-220-45VB		6 6
THERMAL SELF SEAL	FLAT DUCTING - ADA	APTOR ROUND TO FLAT	
	TSS-204-PL TSS-220-PL		6 6
THERMAL SELF SEAL	FLAT DUCTING -"T"	PIECE	
	TSS-204-TP TSS-220-TP		6 6
	TO FITTING		
	TSS-204-DFCON TSS-220-DFCON		6 6
CONNECTOR - DUCT 1)R	
			_



TSS-204-DDCON 204 x 60 mm TSS-220-DDCON 220 x 90 mm 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/m^3 Thermal conductivity of 0.03W/mK, providing minimum ther mal resistance or "R" value of 0.666 m²K/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

THERMAL SELF S	Model EAL ROUND DUCTING		Box Qty
0	TSS-125-2M TSS-160-2M		6 6
THERMAL SELF S	EAL ROUND DUCTING	- 90° BEND	
C	TSS-125-90B TSS-160-90B		6 6
THERMAL SELF S	EAL ROUND DUCTING	- 45° BEND	
	TSS-125-45B TSS-160-45B		6 6
THERMAL SELF S	Eal round ducting	- "T" PIECE	
$\bigcirc 0$	TSS-125-TP TSS-160-TP	125 mm 160 mm	6 6
160мм то 15	OMM ADAPTOR		
0	TSS-160-AD	160 mm	6
CONNECTOR - D	uct to fitting		
O	TSS-125-DFCON TSS-160-DFCON		6 6
CONNECTOR - D	UCT TO DUCT		
\bigcirc	TSS-125-DDCON TSS-160-DDCON		6 6
3		Email: sales@v	ectaire.co.uk

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

6

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

Accessories

Plastic Flat Ducting - 3 sizes

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

	Model	Size/Description	Box Qty
FLAT DUCTING -	1.5m length		
	VPFD VPFDS VPFDM	1500mm long 1500mm long 1500mm long	20 5 3
FLAT DUCTING -		rooonini long	0
	VPFD-2M	2000mm long	10
\leq	VPFDS-2M VPFDM-2M	2000mm long 2000mm long	5 2
UNIVERSAL DUC	г		
	VPFDS-UD	204 x 60	10
CONNECTOR			
	VPC VPCS	110 x 54 204 x 60	20 10
	VPCM	220 x 90	6
			4.0
	VPMB VPMBS	110 x 54 204 x 60	10 10
	VPMBM	220 x 90	10
90º HORIZONTA			
	VPHB VPHBS	110 x 54 204 x 60	20 10
	VPHBM	220 x 90	6
45° HORIZONTA	VPHB45	110 x 54	20
	VPHBS45	204 x 60	10
	VPHBM45	220 x 90	6
	VPAHBS	204 x 60	10
90° VERTICAL B	END		
	VPVB VPVBS	110 x 54 204 x 60	20 10
	VPVBM	220 x 90	6
45° VERTICAL B	END		
	VPVB45 VPVBS45	110 x 54 204 x 60	20 10
	VPVBM45	220 x 90	6
	VPA VPAS	100mm dia spigot 125mm dia spigot	20 10
	VPAM	150mm dia spigot	6
ADAPTOR ROUND) to flat - verti	CAL BEND	
	VPAVB VPAVBS4	100mm dia spigot 100mm dia spigot	20 10
	VPAVBS5	125mm dia spigot	10
	VPAVBS6	150mm dia spigot	10
VVIILE - VV. DI'OW	n = B: Beige = CO		

	Model	Size/Description	Box Qty
ADAPTOR ROUND	TO FLAT - VERTIC/ VPAVBSA4 VPAVBSA5 VPAVBSA6 VPAVBM4 VPAVBM5 VPAVBM6	AL BEND - OFFSET SPIGOT 100mm spigot 125mm spigot 150mm spigot 100mm spigot 125mm spigot 150mm spigot	10 10 10 6 6
	VPT VPTS VPTM	110 x 54 204 x 60 220 x 90	20 10 6
	VFD110/.5 VFD110/3 VFD204/.5 VFD204/3M VFD220/.5 VFD220/3	110 x 54mm x .5m 110 x 54mm x 3m 204 x 60mm x .5m 204 x 60mm x 3m 220 x 90mm x .5m 220 x 90mm x 3m	1 1 1 1 1 1
WALL PLATE - FLA	VPAWP VPAWPS VPAWPS		10 10 6
FIXED GRILLE WITH	VPFG	SPIGOT AND FLYSCREEN W, B, COT or TC 54mm duct size only]	20
GRAVITY GRILLE V	VITH RECTANGU	LAR SPIGOT	
	VPGG (for 110mm x	W, B, COT or TC 54mm duct size only)	20
	DR		
AIRBRICK	VPAB/AD	(VFPD only)	20
	VPAB	W, B, COT or TC	20
ADAPTOR - 204	мм х 60мм ('s	') то <mark>220мм x 90мм (</mark> '	M']
	VPAS-M	W, B, COT or TC	10
	ADAPTOR		
		Megaduct only	10
		W, B, COT or TC	20
	PLT-DAB-10-V	WCB Email: sales@vectair	6
		Linal. Sales@vectal	u.uu.uK.



Accessories

Ducting and Ancillaries



	Model	Size/Descri	otion	Box Qty
SILENCER				
	VPFDS-SIL.5 VPFDM-SIL.5	204 x 60mm 220 x 90mm		1 1
	CT SLEEVES FOR	r vfpd		
\sim	VPFD-DS	110 x 54mm	ו	1
	VPFDS-DS	204 x 60mm	ו	1
	VPFDM-DS	220 x 90mm	ו	1
INTUMESCENT FIF	E SLEEVE			
	FS204/100	204 x60 x10)Omm	1
INTUMESCENT FIRE	DAMPER			
	FD4INT	4"/10cm		1
	FD5INT FD6INT	5"/12cm 6"/15cm		1 1
Fire Damper - Fu				I
	FD4	4"/10cm		1
	FD5	5"/12cm		1
	FD6	6"/15cm		1
PLASTIC FLEXIBLE	DUCTING			
	VFD4/3	4"/10cm	3m	12
	VFD4/6 VFD4/10	4"/10cm 4"/10cm	6m 10m	6 2
MERIN	VFD5/3	5"/12cm	Зm	6
AND SHE X	VFD5/6	5"/12cm	6m	1
C. C. M. J. W.	VFD6/3	6"/15cm	Зm	4
	VFD6/6	6"/15cm	6m	1
	VFD6/10	6"/15cm	10m	1
	VFD8/3	8"/20cm	Зm	1
	VFD8/6	8"/20cm	6m	1
	VFD10/3 VFD10/6	10"/25cm 10"/25cm	Зm 6m	1 1
	VFD315/3		Зm	1
	VFD315/6		6m	1
	VFD315/10	,	10m	1
INSULATED ALUM	INIUM FLEXIBLE	DUCTING		
	VFD4/10INS	4"/10cm	10m	1
	VFD5/10INS		10m	1
	VFD6/10INS		10m	1 1
ALUMINIUM FLEXI	VFD8/10INS		10m	I
	VFD4/10AL VFD5/10AL	,	10m 10m	1 1
	VFD5/ TOAL		10m	1
ACOUSTIC ALUMIN			-	
	VFD4/10AC		10m	1
	VFD5/10AC		10m	1
	VFD6/10AC		10m	1
	VFD8/10AC	8"/15cm	10m	1

	Model	Size/Description	Box Qty
TELESCOPIC DUCT	- 8"-14"		
	VTD10-200	4"/10cm	10
(VTD12-200		10
	VTD15-200	6"/15cm	10
RIGID DUCT - 14'/		_ / `	
	VRD4-350	4"/10cm	10
\bigcap	VRD5-350	5"/12cm	10
\Box	VRD6-350	6"/15cm	10
400			10
RIGID DUCT - 100	UMM		
	VRD4-1M	4"/10cm	З
(0	VRD5-1M	5"/12cm	З
	VRD6-1M	6"/15cm	З
RIGID DUCT - 200	Омм		
	VRD4-2M	4"/10cm	З
\bigcap	VRD5-2M	5"/12cm	З
V	VRD6-2M	6"/15cm	З
RIGID DUCT CONNE	CTOR		
	VRD4/C	4"/10am	10
	VRD4/C VRD5/C	4"/10cm 5"/12cm	10
(0)	VRD5/C VRD6/C	6"/15cm	10
P	VHDO/ C		10
RIGID DUCT FIXING	BRACKET		
	VRD4/FB	4"/10cm	10
	VRD5/FB	5"/12cm	10
Selection	VRD6/FB	6"/15cm	10
RIGID DUCT T PIEC	-	,	
	- VRD4/T	4"/10cm	10
	VRD4/T VRD5/T	5"/12cm	10
A(P)	VRD5/T VRD6/T	6"/15cm	10
			10
rigid duct y piec	E		
	VRD4/Y	4"/10cm	10
$\langle \cdot \rangle$			
RIGID DUCT 90 ° B			
60	VRDB90/4	-	10
	VRDB90/5		10
Si	VRDB90/6	6"/15cm	10
RIGID DUCT 45° B	END		
	VRDB45/4	4"/10cm	10
())	VRDB45/5	5"/12cm	10
ROUND GRILLE WIT	TH FLYSCREEN		
	T10	4"/10cm	10
		.,	
CIRCULAR REDUCE		10cm-7.5cm	10
(\land)	RED4/3P	10cm-7.5cm 12cm-10cm	10 10
	RED5/4P	12cm-10cm 15cm-10cm	10
	RED6/4P RED6/5P	15cm-12cm	10
LU	RED6/5P RED8/6P	20cm-12cm	1
			I
TAPE/ ADHESIVES			4
	PVCDT	PVC Duct Tape	1
	DDSeal	Duct Seal	1
	MAS87	Intumescent Mastic	1
		Email: sales@vectaire Web: www.vectaire	

Web: www.vectaire.co.uk

Accessories

Ducting and Ancillaries



	Model	Size/Description	Box Qty
ADAPTOR PLATES	PLT/EL PLT/ELX PLT/ES1003 PLT/ES1003/SI PLT/ES1003/SI PLT/EC010 PLT/EC0103030	2 E-Smile _ E-Smile ECO	1 1 1 1 1 1
WALL VENT KITS	AWVK12/5 AWVK15/6	4"/10cm 5"/12cm 6"/15cm	10 10 10
METAL "Y" SECTION	DJP4 DJP5 DJP6 DJP8 DJP10 DJP12	4"/10cm 5"/12cm 6"/15cm 8"/20cm 10"/25cm 12"/30cm	1 1 1 1 1
METAL "T" SECTIO	YP4 YP5 YP6 YP8	4"/10cm 5"/12cm 6"/15cm 8"/20cm	1 1 1 1
	TP4 TP5 TP6 TP8	4"/10cm 5"/12cm 6"/15cm 8"/20cm	1 1 1 1
METAL AIR VALVE	VAV4+FD VAV5+FD VAV6+FD	APER 4"/10cm 5"/12cm 6"/15cm	1 1 1
	WDC4 WDC5 WDC6 WDC8 WDC10 WDC12/16	4"/10cm 5"/12cm 6"/15cm 8"/20cm 10"/25cm 12"-16"	1 1 1 1 1
DUCT SLEEVE	VRD5-DS	4"/10cm 5"/12cm 6"/15cm	1 1 1
duct Joining	DW25N PVCDT DT75 DDSeal	Duct Wrap-1.2mx13m PVC Duct Tape Aluminium Foil Duct Tape Duct Seal	1 1 1 1

	Model	Size/Description	Box Qty
WALL COWLS			
	VWC	4"-6"	1
AT \	VWC4	4"/10cm	1
(1)	VWC5	5"/12cm	1
W	VWC6	6"/15cm	1
PLASTIC FIXED GR	ILLES		
	FG4	4"/10cm	1
	FG5	5"/12cm	1
	FG6	6"/15cm	1
PLASTIC FIXED GR	ILLES WITH FLYS	SCREEN	
	FG4F	4"/10cm	1
	FG5F	5"/12cm	1
	FG6F	6"/15cm	1
PLASTIC GRAVITY	GRILLES		
	GG4	4"/10cm	1
H	GG5	5"/12cm	1
	GG6	6"/15cm	1

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

IN WALL ATTENUATORS

0	VIWA4	4"/10cm - with grille
	VIWA4C	4"/10cm - with cowl
	VIWA4QF	4"/10cm - with quick
	vivva4QF cowl	cowl
	VIWA5	5"/12cm- with grille
	VIWA5C	5"/12cm - with cowl
	VIWA5QF	5"/12cm - with quick
	VIVVAJUI	

4"/10cm - with cowl	1
4"/10cm - with quick fit	1
cowl	1
5"/12cm- with grille	1
5"/12cm - with cowl	1
5"/12cm - with quick fit	1
cowl	I

1

WALL TERMINATION KITS

	VWTK4	4"/10cm-high rise-wall 350mm duct-internal installation	1
	VWTK-Gas	4"/10cm only for VWTK4	1
	VWTK6	6"/15cm - as VWTK4	1
	VWTC4	4"/10cm-round wall cowl for internal installation	1
	VWTC6	6"/15cm - as VWTC4	1
ROOF TERMINATION KITS			
	RTK4	4"/10cm - Kit	1
	RT4	4"/10cm - Cowl	1
PLASTIC AIR VALVES			
\bigcirc	VAV4	4"/10cm	1
TA	VAV5	5"/12cm	1
P	VAV6	6"/15cm	1
CONDENSATION	TRAPS		
Here and a second	VCT4 VCT4P VCT5P	4"/10cm 4"/10cm- with overflow 5"/12cm- with overflow	1 1 1

VCT6P

1

6"/15cm- with overflow

VENTILATION FOR THE BUILT ENVIRONMENT

low energy environmentally friendly economical

