Midi

Midi

- with summer bypass and frost-stat
- efficient, low energy solution to controlling condensation and pollution in residential properties up to 170m²
- up to 94% heat exchange efficiency
- variable choice of low (trickle), boost and purge speed at installation
- for wall, cupboard or loft installation
- universal handing for models without humidistat
- very quiet
- low running costs
- complies with Building Regulations
- manufactured in UK to ISO 9001:2015 and 14001:2015
- accurate commissioning via optional integral LCD or remote LCD commissioning unit

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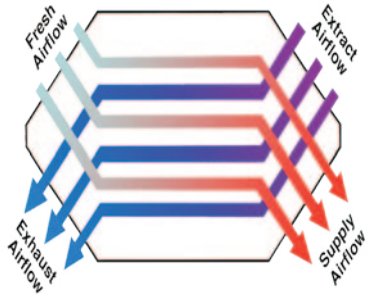
GENERAL FEATURES

- up to 95 litre/sec at 50Pa - max 101 litre/sec capacity
- sfp down to 0.50 W/l/s
- summer bypass which allows the airflow to bypass the heat exchanger automatically when internal and external temperatures are between adjustable setpoints.
- frost-stat - proportionally reduces intake motor speed as temperature falls - activated when the outside temperature between +8^{0}C and -3^{0}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 60ºC
- easy to access standard, disposable G3 filters
- counter flow heat exchanger



CONTROL FEATURES - STANDARD

- independent variable speed adjustment for each motor for trickle, boost and purge speeds.
- adjustable boost speed over-run timer from 0 to 90 minutes.
- adjustable boost speed delay from 0 to 5 minutes
- remote purge cable connection on circuit board (for optional purge facility)
- adjustable night time boost and purge inhibitor
- integral frost-stat - proportionally reduces intake motor speed as temperature falls
- automatic summer bypass

CONTROL FEATURES - FACTORY SET

- change of ductwork handing on humidistat version (humidity threshold can be set at manufacture)
- integral humidistat - proportionally increases motor speeds with rising humidity
- 0-10V connections can be added for:
  - BMS - for remote motor shut-off
  - CO_2 detector
  - home automation system
- relay for external pre-heater
- 3 speed selector switch
- optional remote purge cable - factory connected - adjustable over-run timer from 0 to 250 minutes, Pre-set to 15 minutes (adjustable at factory)
- holiday mode for reduced speeds when property is unoccupied (factory set option) - default setting is 50% of trickle speed
- run-time and power outage counters downloadable via QR code.

COMPLIES WITH

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

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

MODELS AVAILABLE:

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

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

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TECHNICAL CHARACTERISTICS											
Model	Airflow l/sec					Total Power - Watts					Operating Current (Amps)
	100%	80%	60%	40%	20%	100%	80%	60%	40%	20%	
Midi	101	79	58	36	14	120	69	31	11	2.2	1.21

Midi		Sound Power Levels, L_w (dB) - Octave Bands Frequency Hz.								Sound Pressure dBA @ 3m
Curve Ref		63	125	250	500	1k	2k	4k	8k	
100% (101 l/sec)	Extract	65	65	63	63	59	58	57	54	
	Supply	70	70	68	68	64	63	62	59	
	Breakout	56	50	55	49	44	42	37	32	33.9
80% (79 l/sec)	Extract	61	61	58	58	54	53	50	46	
	Supply	66	66	63	63	59	58	55	51	
	Breakout	52	51	50	46	41	34	32	28	29.9
60% (58 l/sec)	Extract	55	55	51	51	47	45	41	36	
	Supply	60	60	56	56	52	50	46	41	
	Breakout	47	51	46	43	38	27	25	24	26.6
40% (36 l/sec)	Extract	47	46	41	41	38	35	29	21	
	Supply	52	51	46	46	43	40	34	26	
	Breakout	43	52	43	41	35	23	18	21	24.6
20% (14 l/sec)	Extract	33	32	24	24	22	18	8	11	
	Supply	38	37	29	29	27	23	13	15	
	Breakout	36	50	37	35	27	12	9	14	19.7

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

Extract and Supply values are in-duct sound power levels

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

RESULTS for SAP CALCULATIONS
ENERGY LEVEL PERFORMANCE - using rigid ducting only

	2009 Data		2012 Data		SAP 10 Data	
Exhaust Terminal Configuration	Specific Fan Power (W/l/sec)	Heat Exchange Efficiency	Specific Fan Power (W/l/sec)	Heat Exchange Efficiency	Specific Fan Power (W/l/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

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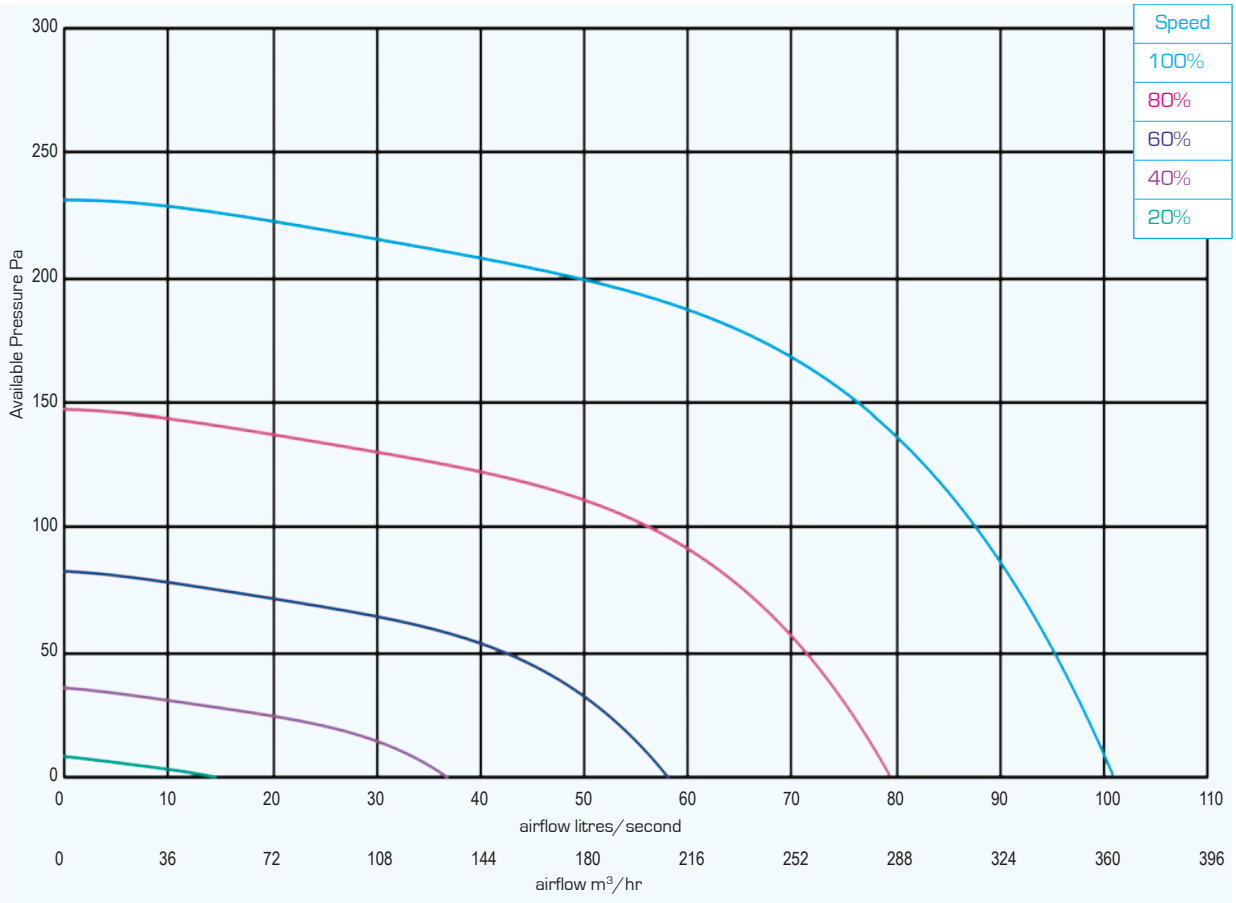
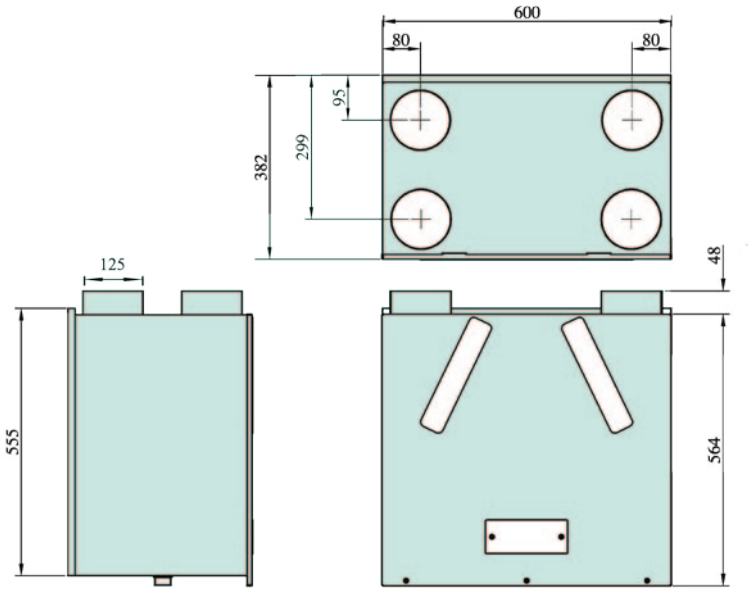
PERFORMANCE (curves are for guidance only)



DIMENSIONS - mm



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