WHHR-Midi

NEW



MVHR - WHHR-Midi

- with or without summer bypass
- energy efficient EC motor
- efficient, low energy solution to controlling condensation and pollution
- provides low level continuous ventilation in a kitchen and up to 6 wet rooms
- up to 94% heat exchange efficiency
- variable choice of low (trickle) and boost speed at installation
- for wall, cupboard or loft installation
- low noise levels and running costs
- complies with Building Regulations Parts L1 2010 and F 2010
- manufactured in UK to ISO 9001
- with electronic control PLUS

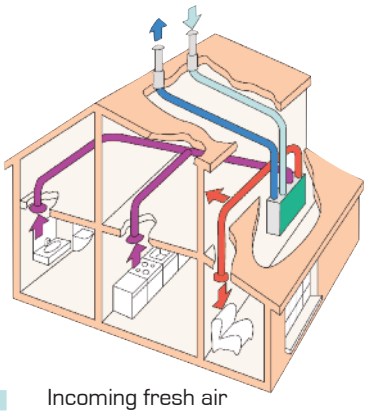
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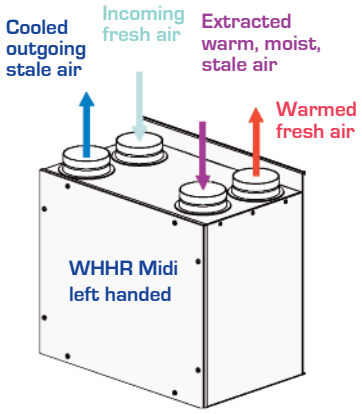
WHHR-Midi

GENERAL FEATURES

- Up to 94 litre/sec at 50Pa - max 102 litre/sec capacity
- for areas up to 230m²
- up to 94% of heat recovered
- easy to install and maintain
- for fitting vertically into lofts, or cupboards - wall fixing bracket supplied
- variable low (trickle) and boost options
- boost speed triggered by a switched live connection from:
  - a light switch (if more than one light switch is used, **each one must be a double pole switch)**
  - DRH240 (dynamic remote humidistat)
  - PIRFF (passive infra red)
  - THM (thermostat)
  - a remote switch/pull cord
- low noise levels
- low running costs
- extra security - no need to open windows
- 3 year warranty

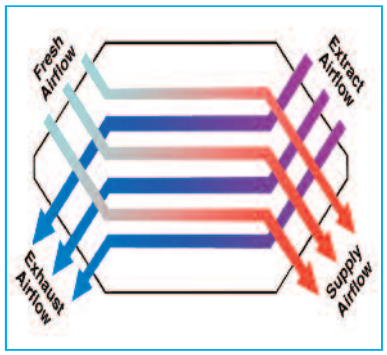


- Incoming fresh air
- Warmed fresh air
- Extracted warm, moist, stale air
- Cooled outgoing stale air
- WHHR-Midi



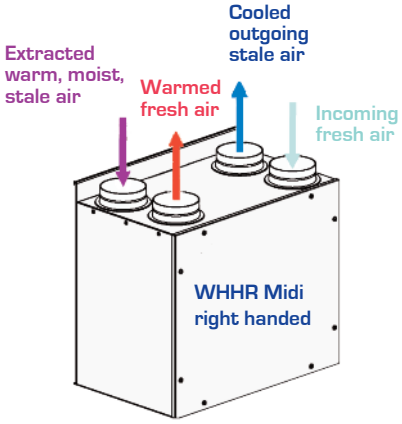
TECHNICAL FEATURES

- compact unit
- casing from steel sheet - epoxy paint finish
- thermo-acoustic lining
- low energy EC brushless motor
- single width, single inlet, direct drive, forward curved impellors
- operates in temperature up to 60ºC
- uses standard, disposable G3 filters
- counter flow heat exchanger
- manufactured in UK to ISO 9001



COMPLIES WITH

- Part L1 2010 of Building Regulations for enhanced energy saving capability
- Part F 2010 of Building Regulations for reliable, efficient ventilation
- EU RoHS Directive Compliant.
- Conforms to requirements of EC Council directives relating to Electromagnetic Compatibility and Electrical Safety: 2006/95/CE (LVD), 2004/108/CE (EMC), EN 60335-2-80
- CE marked
- **SAP Q eligible**
- **EST Best Practice Performance compliant**



CONTROL FEATURES

Standard

> **variable adjustment** - trickle and boost speeds set at installation for both motors independently
> **boost setting** - with integral overrun timer adjustable up to 20 minutes
> **optional delay-on-timer** - boost speed does not operate if switched off within 2 minutes
> **integral frost-stat** - proportionately reduces intake motor speed as temperature falls

Factory Set Options

> **change of ductwork handing**
> **purge boost** - for rapid air change
> **BMS connections** - for remote motor shut off
> **integral humidistat** - proportionately increases motor speeds with rising humidity
> **summer bypass** - automatic bypass of heat exchanger in hot weather

MODELS AVAILABLE:

- WHHR Midi L - left drain
- WHHR Midi R - right drain
- WHHR Midi HL - humidistat, left drain
- WHHR Midi HR - humidistat, right drain
- WHHR Midi BL - bypass, left drain
- WHHR Midi BR - bypass, right drain
- WHHR Midi BLH - bypass, humidi-stat, left drain
- WHHR Midi BLH - bypass, humidi-stat, right drain

Vectaire Ltd can supply all accessories for use with these units, including 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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WHHR-Midi

TECHNICAL CHARACTERISTICS										
Model	Airflow l/sec					Power - Watts				
	max boost	max trickle	80%	60%	40%	max boost	max trickle	80%	60%	40%
WHHR-Midi	102	84	66	48	36	120	103	51	25	20

RESULTS for SAP CALCULATIONS ENERGY LEVEL PERFORMANCE - using rigid ducting only				RESULTS for Approved Document F	
Exhaust Terminal Configuration	Specific Fan Power (W/l/s)	Heat Exchange Efficiency	EST Best Practice Performance Compliant	Total Exhaust Flow Rate (l/sec)	Total Supply Flow Rate (l/sec)
Kitchen + **1** additional wet room	**0.53**	**94**	**yes**	**15.0**	**15.0**
Kitchen + **2** additional wet rooms	**0.57**	**93**	**yes**	**21.0**	**21.0**
Kitchen + **3** additional wet rooms	**0.63**	**92**	**yes**	**27.0**	**27.0**
Kitchen + **4** additional wet rooms	**0.76**	**91**	**yes**	**33.0**	**33.0**
Kitchen + **5** additional wet rooms	**0.86**	**89**	**yes**	**39.0**	**39.0**
Kitchen + **6** additional wet rooms	**1.03**	**89**	**yes**	**45.0**	**45.0**
Figures from BRE test results at minimum flow rate conditions					

WHHR-Midi		Characteristic in-Duct Sound Power Levels Mid Octave Frequency band								Case-radiated LpA(dB) @3m*
Curve Ref		63	125	250	500	1k	2k	4k	8k	
Max Boost	Extract	85	74	64	57	52	44	39	36	31
	Supply	83	74	75	67	64	58	54	51	
Max Trickle	Extract	82	70	60	53	49	40	35	31	29
	Supply	81	72	72	64	61	53	50	47	
80%	Extract	78	65	56	48	44	33	29	26	26
	Supply	77	67	67	59	56	46	44	39	
60%	Extract	70	60	50	42	37	25	20	22	23
	Supply	68	61	60	53	48	37	33	26	
40%	Extract	68	59	49	41	35	23	18	21	22
	Supply	65	60	58	52	46	35	31	23	

*Assumes spherical radiation under anechoic conditions

TYPICAL SPECIFICATION

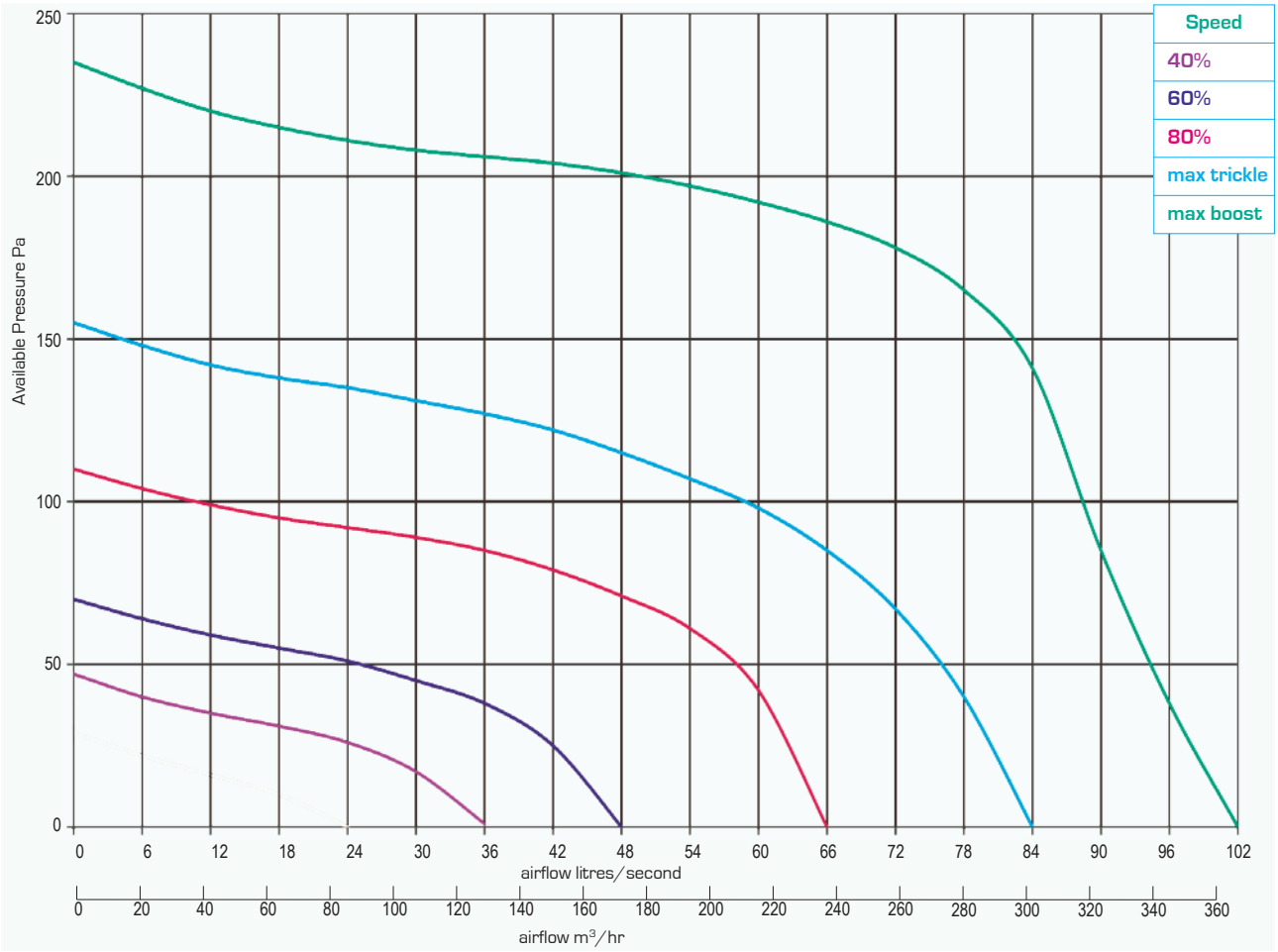
Supply and install a Vectaire WHHR-Midi MVHR which gives low level, continuous ventilation to a kitchen and six other wet rooms. The unit should be for cupboard, loft or false ceiling installation and recover up to 94% of heat from extracted air separating the airflows using a counter flow heat exchanger. The unit should incorporate a low energy EC brushless motor for low noise levels and low energy consumption with an SFP down to 0.45. It should have as standard: independent variable speed adjustment for boost and trickle; boost setting with integral overrun timer; optional delay-on timer and integral frost-stat. It should also have the facility for: change of ductwork handing; purge boost; BMS connections; integral proportional dynamic humidistat; and an automatic summer bypass. The unit should comply with all current IEE, EC and Building Regulations requirements, be and be manufactured in the UK by Vectaire Ltd.

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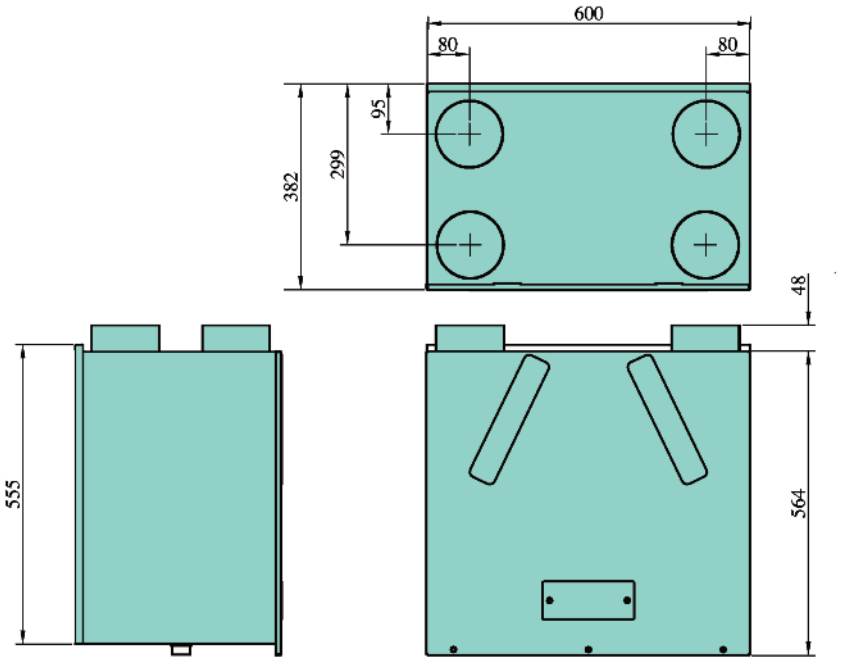
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PERFORMANCE (curves are for guidance only)



DIMENSIONS - mm



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