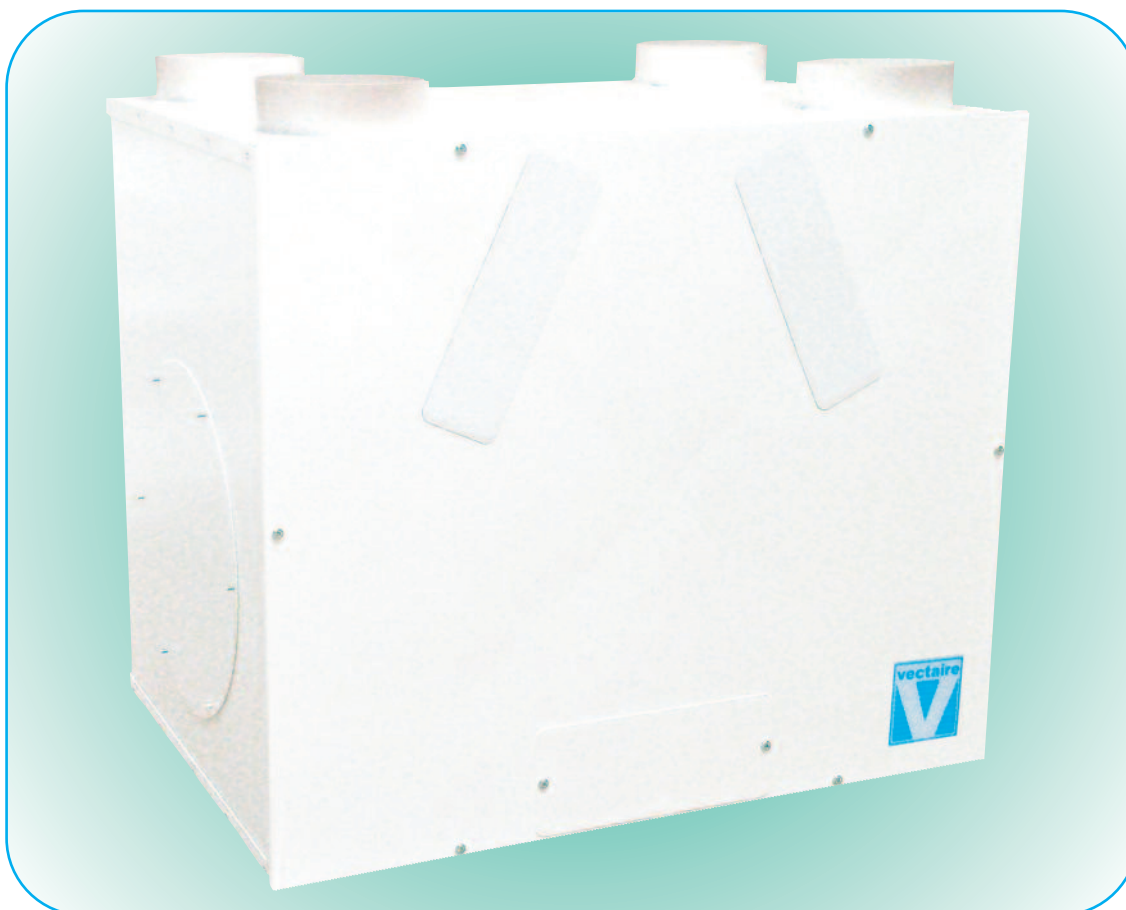


WHHR Maxi



NEW



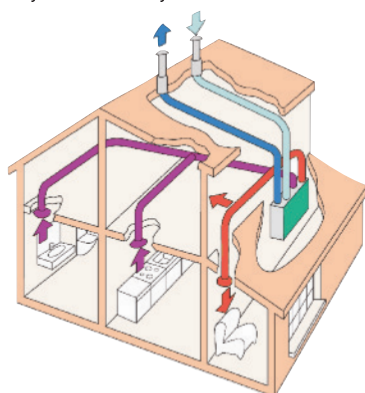
MVHR - WHHR Maxi

- 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 7 wet rooms
- up to 92% heat exchange efficiency
- variable choice of low (trickle) and boost speed at installation
- for wall, cupboard or loft installation
- universal handing - left or right
- low noise levels and running costs
- complies with Building Regulations Parts L1 2013 and F 2013
- manufactured in UK to ISO 9001
- with electronic control "Plus"

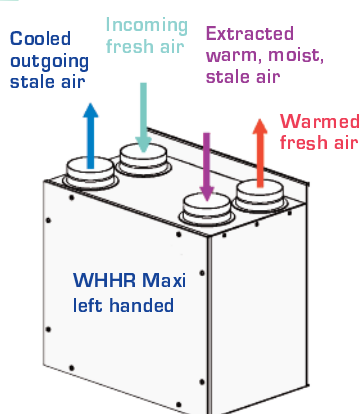


GENERAL FEATURES

- Up to 124 litre/sec at 50Pa - max 130 litre/sec capacity
- for areas up to 230m²
- up to 92% of heat recovered
- easy to install and maintain
- universal handing - left or right
- 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
- 2 year warranty

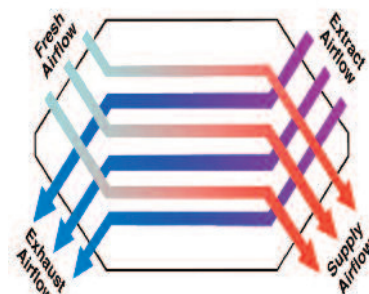


- Incoming fresh air
- Warmed fresh air
- Extracted warm, moist, stale air
- Cooled outgoing stale air
- WHHR Maxi



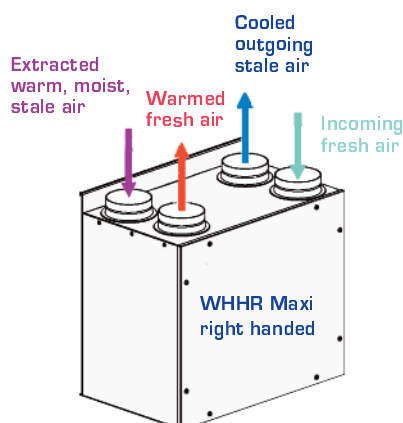
TECHNICAL FEATURES

- casing from steel sheet - epoxy paint finish
- foam construction lining
- EPS internal components provide acoustic and thermal enhancement
- low energy EC brushless motor
- single width, single inlet, direct drive, backward curved impellers
- operates in temperature up to 60°C
- uses standard, disposable G3 filters
- counter flow heat exchanger
- manufactured in UK to ISO 9001



COMPLIES WITH

- Part L1 2013 of Building Regulations for enhanced energy saving capability
- Part F 2013 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**



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 (adjustable from 0-20 mins)
- > **integral frost-stat** - proportionally reduces intake motor speed as temperature falls

Factory Set Options

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

MODELS AVAILABLE:

- WHHR Maxi - standard, universal
- WHHR Maxi BY - bypass, universal
- WHHR Maxi HL - humidistat, left drain
- WHHR Maxi HR - humidistat, right drain
- WHHR Maxi BLH - bypass, left drain, humidistat,
- WHHR Maxi BRH - bypass, right drain humidistat

Accessories available:

- WHHR Maxi F - set of filters for Maxi

Vectaire Ltd can supply all accessories for use with these units (see end of catalogue).

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 and maintenance of these products



TECHNICAL CHARACTERISTICS										
Model	Airflow l/sec					Power - Watts				
	max boost	max trickle	80%	60%	40%	max boost	max trickle	80%	60%	40%
WHHR Maxi	130	130	110	80	50	134	132	85	45	20

TECHNICAL DETAILS				
Exhaust Terminal Configuration	l/sec	m ³ /hr	SFP (W/l/s)	Heat Exchange Efficiency
Kitchen + 1 additional wet room	15.0	54.0	0.43	92%
Kitchen + 2 additional wet rooms	21.0	75.6	0.40	92%
Kitchen + 3 additional wet rooms	27.0	97.2	0.42	92%
Kitchen + 4 additional wet rooms	33.0	118.8	0.48	91%
Kitchen + 5 additional wet rooms	39.0	140.4	0.55	91%
Kitchen + 6 additional wet rooms	45.0	162.0	0.63	90%
Kitchen + 7 additional wet rooms	51.0	183.6	0.76	90%

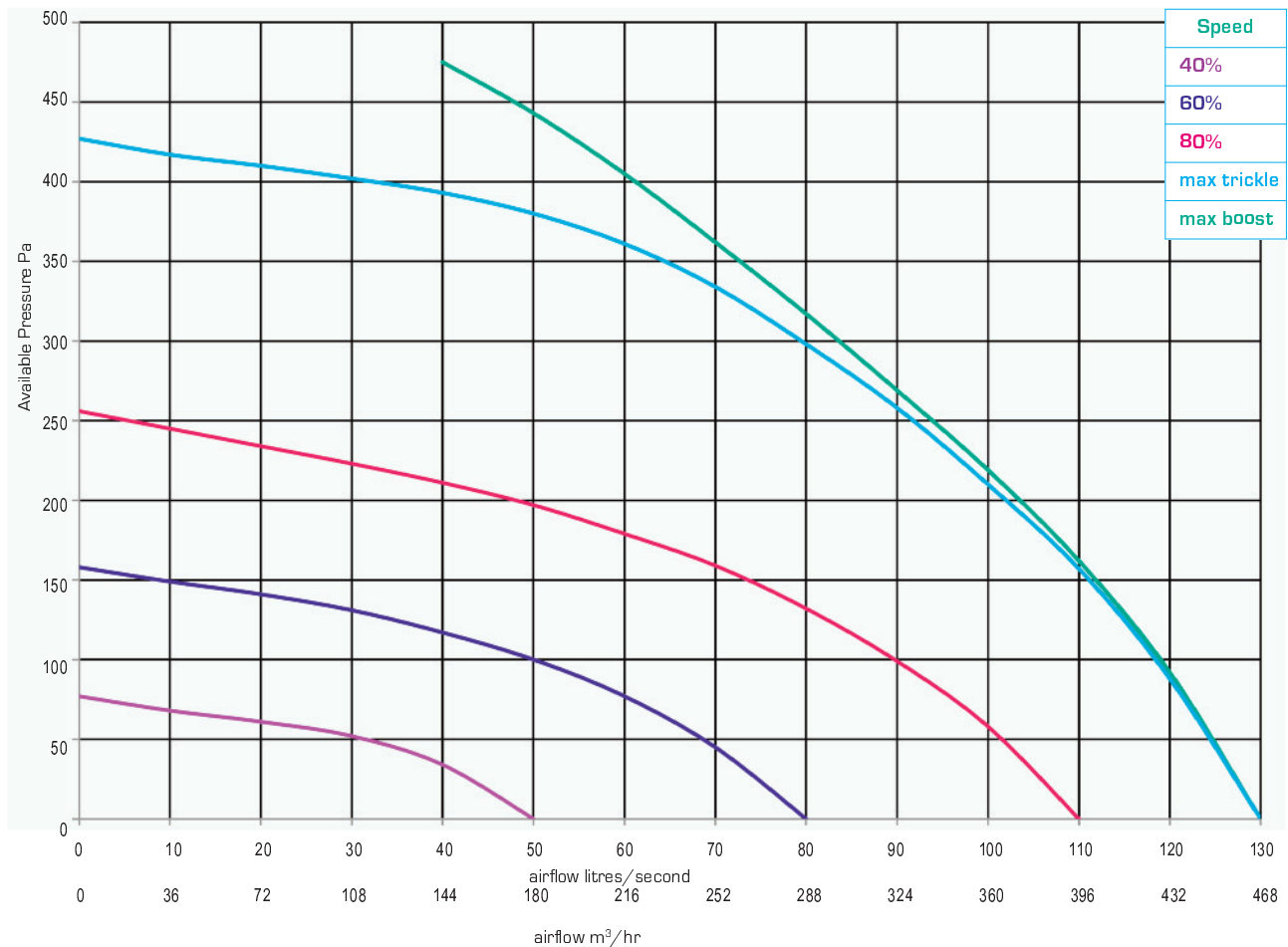
WHHR-Maxi		Sound Power Levels, L_w [dB] - Octave Bands Frequency Hz.								Sound Pressure dBA @ 3m
Curve Ref		63	125	250	500	1k	2k	4k	8k	
Max Boost (130 l/sec)	Extract	62	56	53	51	50	43	38	34	34
	Supply	61	58	64	63	64	56	53	50	
	Breakout	58	57	56	48	46	42	37	33	
Max Trickle (130 l/sec)	Extract	62	56	53	51	50	43	38	34	34
	Supply	61	58	64	63	64	56	53	50	
	Breakout	58	57	56	48	46	42	37	33	
80% (110 l/sec)	Extract	60	54	51	49	48	40	35	32	32
	Supply	60	56	61	60	60	53	51	46	
	Breakout	58	63	54	47	46	39	34	31	
60% (80 l/sec)	Extract	50	51	44	41	39	29	24	26	27
	Supply	49	51	53	52	50	41	34	30	
	Breakout	50	58	49	46	41	29	24	26	
40% (50 l/sec)	Extract	42	44	34	31	30	20	15	19	20
	Supply	40	43	44	43	40	32	28	20	
	Breakout	40	50	41	40	33	19	15	19	

TYPICAL SPECIFICATION

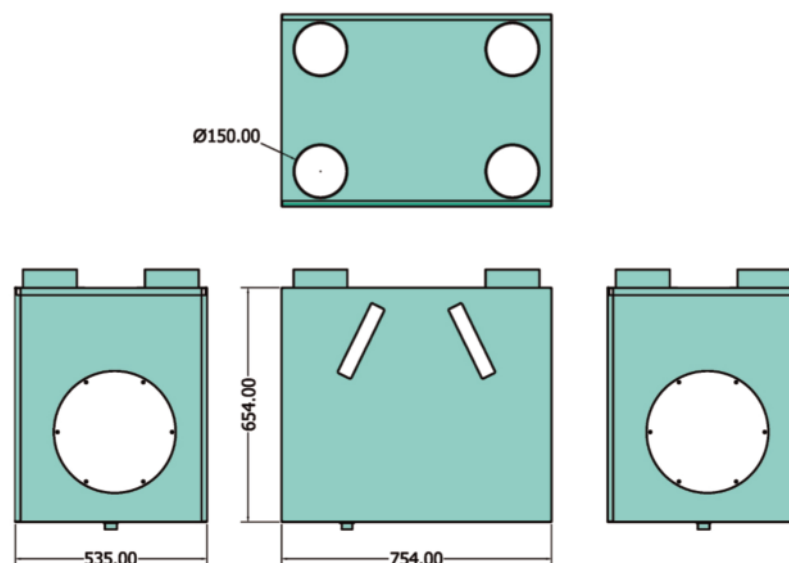
Supply and install a Vectaire WHHR Maxi energy efficient MVHR which has been tested and is SAP Q Eligible as manufactured by Vectaire Ltd, Lincoln Road, Cressex Business Park, High Wycombe, Bucks, HP12 3RH. The unit is to give low level, continuous ventilation to a kitchen and up to eight other wet rooms and should be for cupboard, loft or false ceiling installation recovering up to 92% 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 0.40 w/l/s. 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 Part L1 2013 and Part F 2013 of Building Regulations, be EU RoHS Directive Compliant, conform to the requirements of EC Council directives relating to Electromagnetic Compatibility and Electrical Safety: 2006/95/CE (LVD), 2004/108/CE (EMC), EN 60335-2-80, be CE marked and SAP Q Eligible.



PERFORMANCE (curves are for guidance only)



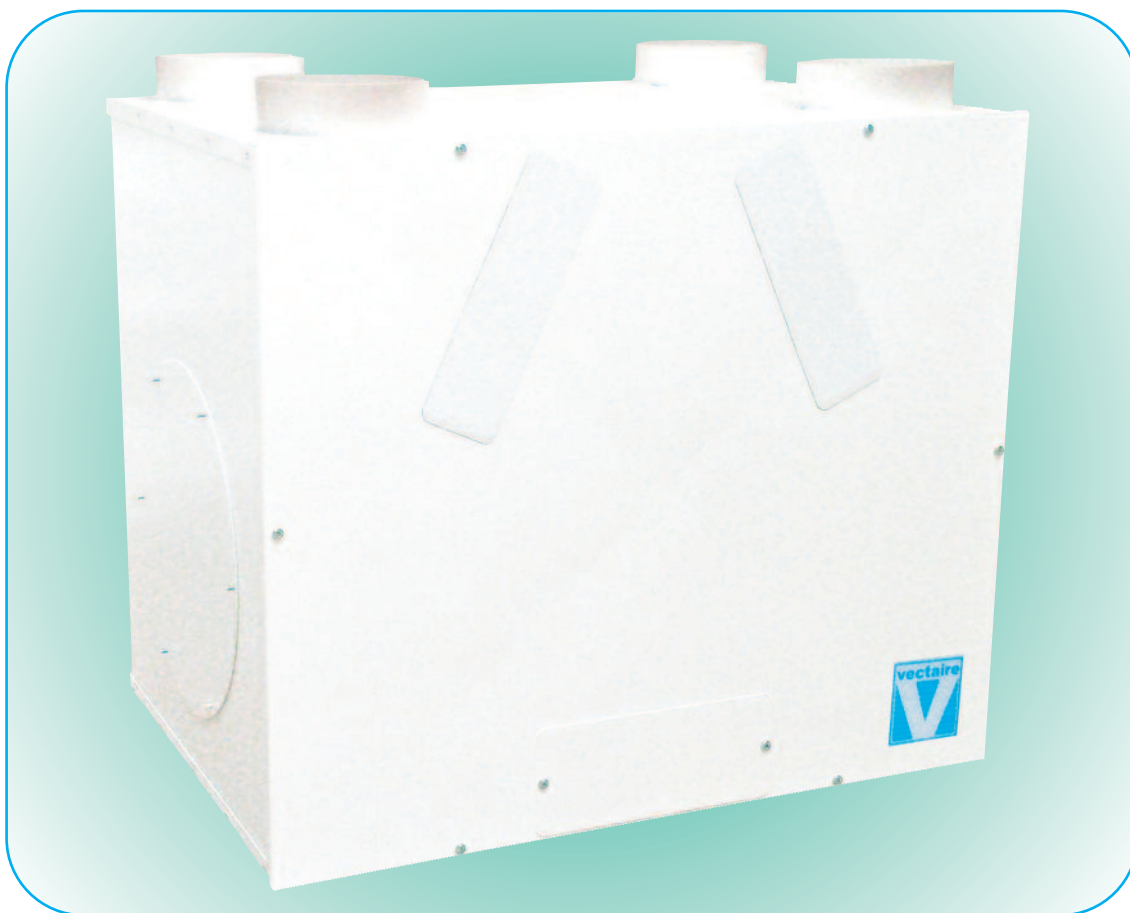
DIMENSIONS - mm



WHHR Maxi Plus



NEW



MVHR - Maxi PLUS

- 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 7 wet rooms
- up to 92% heat exchange efficiency
- variable choice of low (trickle) and boost speed at installation
- for wall, cupboard or loft installation
- universal handing - left or right
- low noise levels and running costs
- complies with Building Regulations Parts L1 2013 and F 2013
- manufactured in UK to ISO 9001
- with electronic control "Plus"

Ventilation for Healthy Living

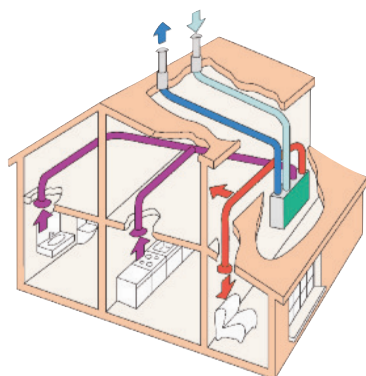
Whole House Mechanical Ventilation with Heat Recovery - MVHR

WHHR Maxi Plus

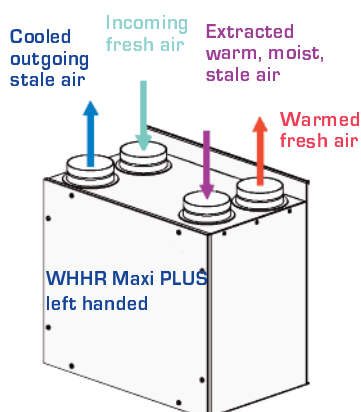


GENERAL FEATURES

- Up to 190 litre/sec at 50Pa - max 200 litre/sec capacity
140 litre/sec recommended maximum duty
- for areas up to 230m²
- up to 92% of heat recovered
- easy to install and maintain
- universal handing - left or right
- 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
- 2 year warranty

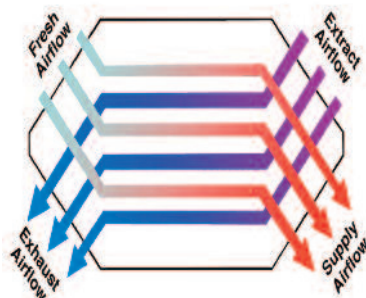


- Incoming fresh air
- Warmed fresh air
- Extracted warm, moist, stale air
- Cooled outgoing stale air
- Maxi PLUS



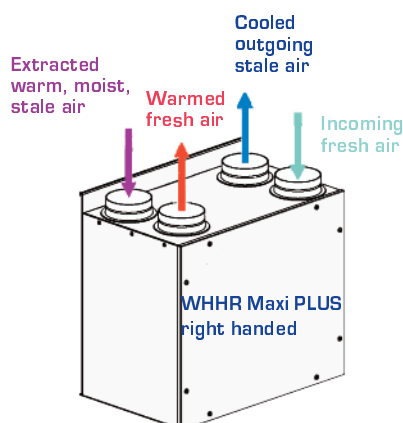
TECHNICAL FEATURES

- casing from steel sheet - epoxy paint finish
- foam construction lining
- EPS internal components provide acoustic and thermal enhancement
- low energy EC brushless motor
- single width, single inlet, direct drive, backward curved impellers
- operates in temperature up to 60°C
- uses standard, disposable G3 filters
- counter flow heat exchanger
- manufactured in UK to ISO 9001



COMPLIES WITH

- Part L1 2013 of Building Regulations for enhanced energy saving capability
- Part F 2013 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



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 (adjustable from 0-20 mins)
- > **integral frost-stat** - proportionally reduces intake motor speed as temperature falls

Factory Set Options

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

MODELS AVAILABLE:

- **Maxi PLUS** - standard, universal
- **Maxi PLUS BY** - bypass, universal
- **Maxi PLUS HL** - humidistat, left drain
- **Maxi PLUS HR** - humidistat, right drain
- **Maxi PLUS BLH** - bypass, left drain, humidistat,
- **Maxi PLUS B-RH** - bypass, right drain, humidistat,

Accessories available:

- **WHHR Maxi F** - set of filters for Maxi Plus

Vectaire Ltd can supply all accessories for use with these units (see end of catalogue).

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 and maintenance of these products



TECHNICAL CHARACTERISTICS										
Model	Airflow l/sec					Power - Watts				
	max boost	max trickle	80%	60%	40%	max boost	max trickle	80%	60%	40%
Maxi PLUS	200	159	128	95	64	328	174	95	49	20

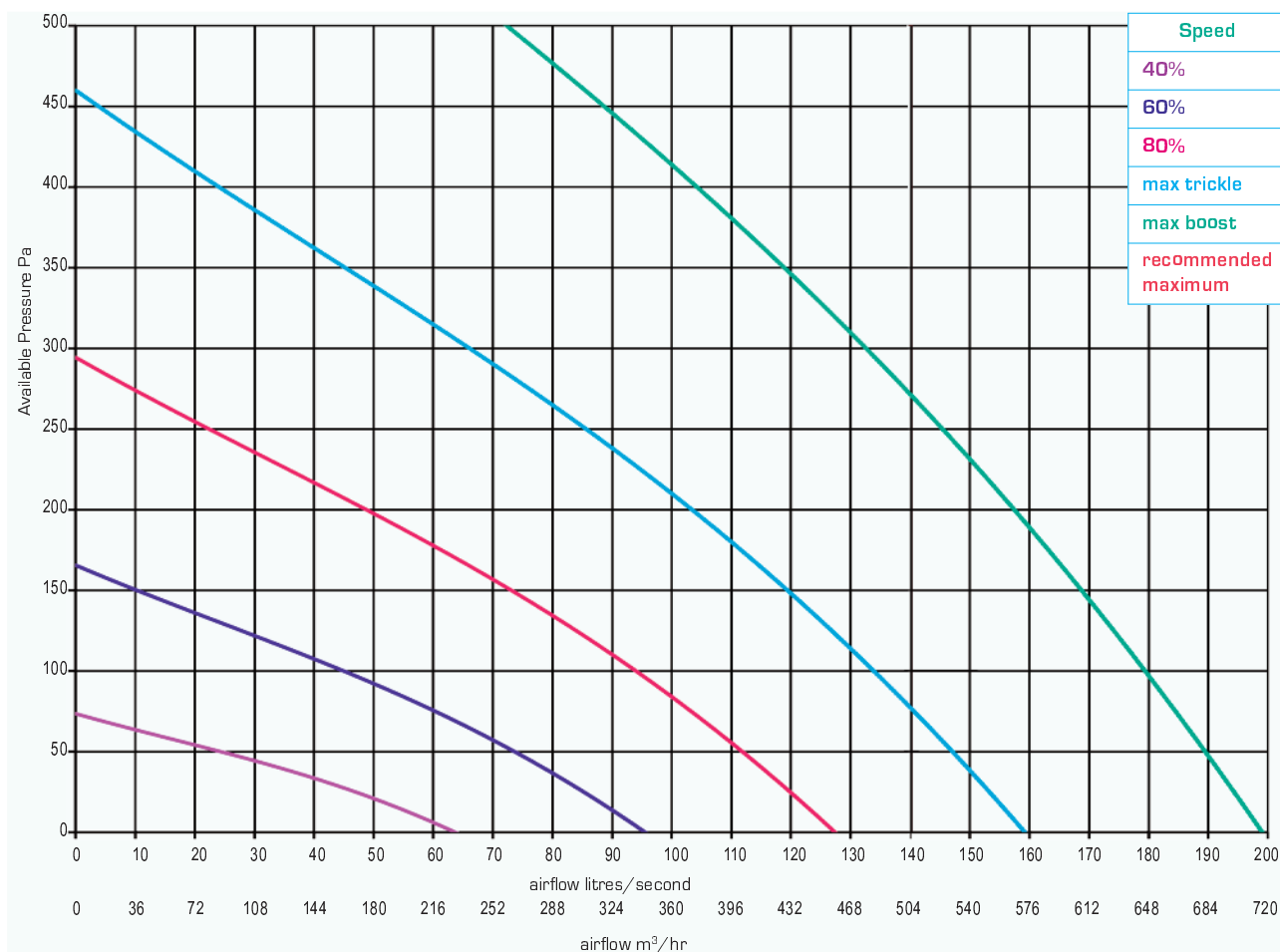
TECHNICAL DETAILS				
Exhaust Terminal Configuration	l/sec	m ³ /hr	SFP (W/l/s)	Heat Exchange Efficiency
Kitchen + 1 additional wet room	15	54	0.43	92%
Kitchen + 2 additional wet rooms	21	75.6	0.48	92%
Kitchen + 3 additional wet rooms	27	97.2	0.51	92%
Kitchen + 4 additional wet rooms	33	118.8	0.62	91%
Kitchen + 5 additional wet rooms	39	140.4	0.74	91%
Kitchen + 6 additional wet rooms	45	162	0.85	90%
Kitchen + 7 additional wet rooms	51	183.6	0.99	90%

WHHR-Maxi		Sound Power Levels, L_w [dB] - Octave Bands Frequency Hz.								Sound Pressure dBA @ 3m
Curve Ref		63	125	250	500	1k	2k	4k	8k	
Max Boost (200 l/sec)	Extract	69	63	67	65	64	60	57	52	46
	Supply	72	66	70	68	67	63	60	55	
	Breakout	64	53	51	43	36	26	17	10	
Max Trickle (159 l/sec)	Extract	64	58	62	61	58	55	52	48	42
	Supply	67	61	65	64	61	58	55	51	
	Breakout	59	48	46	39	30	21	12	6	
80% (128 l/sec)	Extract	59	53	57	56	54	50	47	43	37
	Supply	62	56	60	59	57	53	50	46	
	Breakout	54	43	41	34	26	16	7	1	
60% (95 l/sec)	Extract	53	47	51	49	48	45	41	37	30
	Supply	56	50	54	52	51	48	44	40	
	Breakout	48	37	35	27	20	11	1	-5	
40% (64 l/sec)	Extract	44	38	42	41	39	35	32	28	22
	Supply	47	41	45	44	42	38	35	31	
	Breakout	39	28	26	19	11	1	-8	-14	

TYPICAL SPECIFICATION

Supply and install a Vectaire Maxi PLUS energy efficient MVHR as manufactured by Vectaire Ltd, Lincoln Road, Cressex Business Park, High Wycombe, Bucks, HP12 3RH. The unit is to give low level, continuous ventilation to a kitchen and up to eight other wet rooms and should be for cupboard, loft or false ceiling installation recovering up to 92% 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 0.43 w/l/s. 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 Part L1 2013 and Part F 2013 of Building Regulations, be EU RoHS Directive Compliant, conform to the requirements of EC Council directives relating to Electromagnetic Compatibility and Electrical Safety: 2006/95/CE (LVD), 2004/108/CE (EMC), EN 60335-2-80, and be CE marked.

PERFORMANCE (curves are for guidance only)



DIMENSIONS - mm

