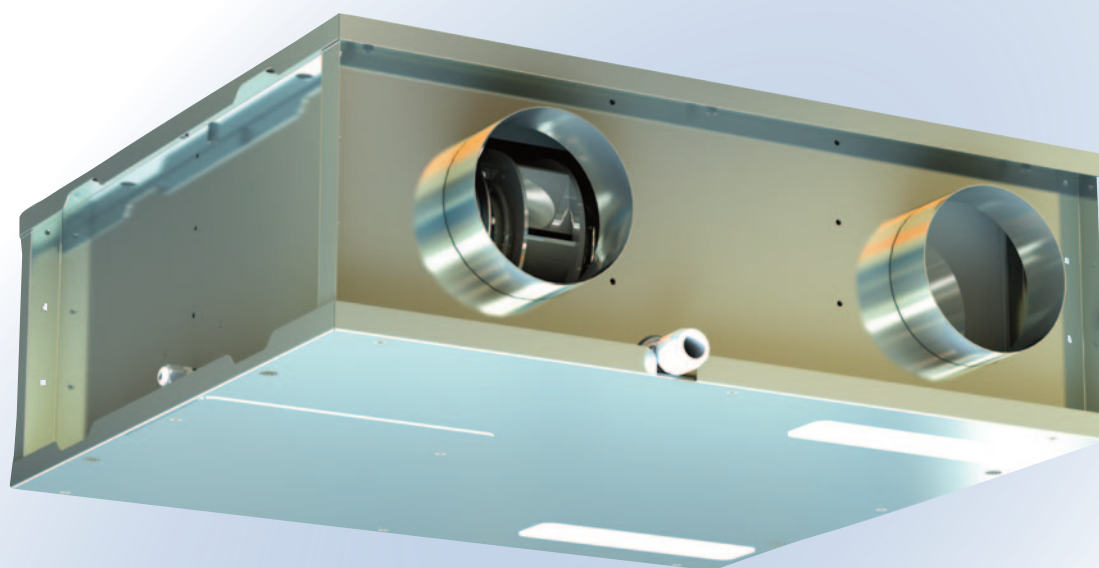




EVO220



EVO220DC

- 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



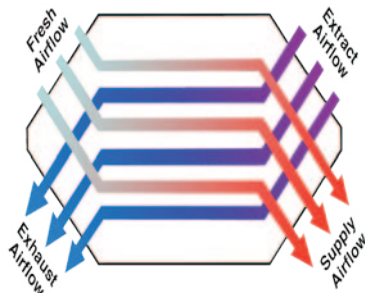
EVO220

GENERAL FEATURES

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

TECHNICAL FEATURES

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



MODELS AVAILABLE:

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

CONTROL FEATURES - STANDARD

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

CONTROL FEATURES - FACTORY SET

- change of ductwork handing on humidistat version (humidity threshold can be set at manufacture)
- integral humidistat - proportionally increases motor speeds with rising humidity
- 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

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



EVO220

TECHNICAL CHARACTERISTICS											
Model	Airflow l/sec					Total Power - Watts					Operating Current (Amps)
	100%	80%	60%	40%	20%	100%	80%	60%	40%	20%	
EVO220DC	75	58	42	26	10	96	52	26	11	5	0.93

EVO220DC		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% (75 l/sec)	Extract	63	62	63	64	61	59	58	49	34.0
	Supply	68	67	68	69	66	64	63	54	
	Breakout	66	60	55	50	41	33	26	21	
80% (58 l/sec)	Extract	59	58	58	58	56	53	51	41	28.9
	Supply	64	63	63	63	61	58	56	46	
	Breakout	62	56	50	44	36	27	19	15	
60% (42 l/sec)	Extract	54	53	52	52	49	47	43	32	23.2
	Supply	59	58	57	57	54	52	48	37	
	Breakout	57	51	44	38	29	21	11	9	
40% (26 l/sec)	Extract	47	47	45	44	41	38	32	19	16.2
	Supply	52	52	50	49	46	43	37	24	
	Breakout	50	45	37	30	21	12	7	6	
20% (10 l/sec)	Extract	37	40	36	35	29	25	18	11	7.9
	Supply	42	45	41	40	34	30	23	16	
	Breakout	40	38	28	21	9	7	6	5	

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

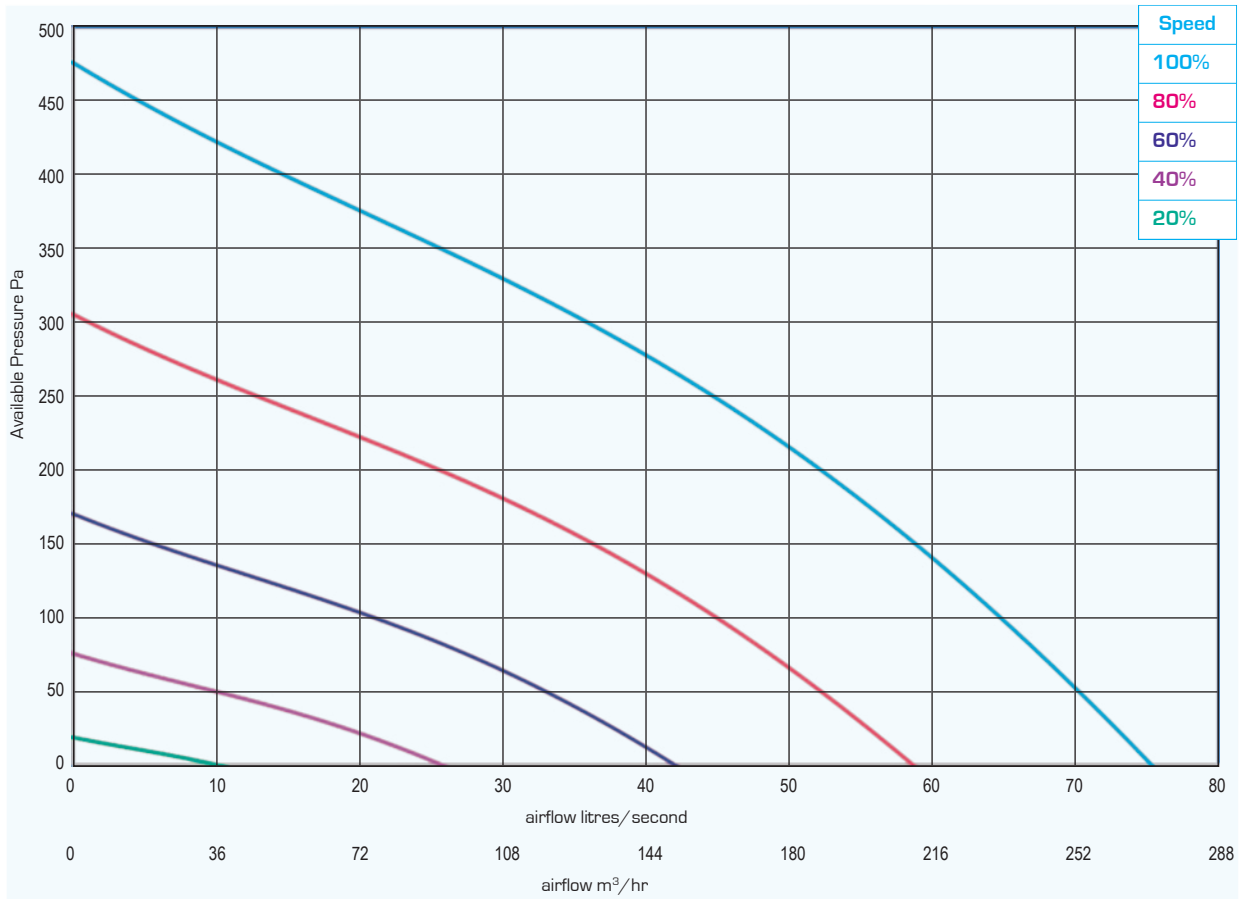
RESULTS for SAP CALCULATIONS			
ENERGY LEVEL PERFORMANCE - using rigid ducting only			
Exhaust Terminal Configuration	2012 Data		
	Airflow (l/sec)	Specific Fan Power (W/l/sec)	Heat Exchange Efficiency
Kitchen + 1 additional wet room	21	0.55	87%
Kitchen + 2 additional wet rooms	29	0.69	84%
Kitchen + 3 additional wet rooms	37	0.88	81%
Kitchen + 4 additional wet rooms	45	1.16	79%
Kitchen + 5 additional wet rooms	53	1.48	77%

Figures at minimum flow rate conditions - tested by our own laboratory

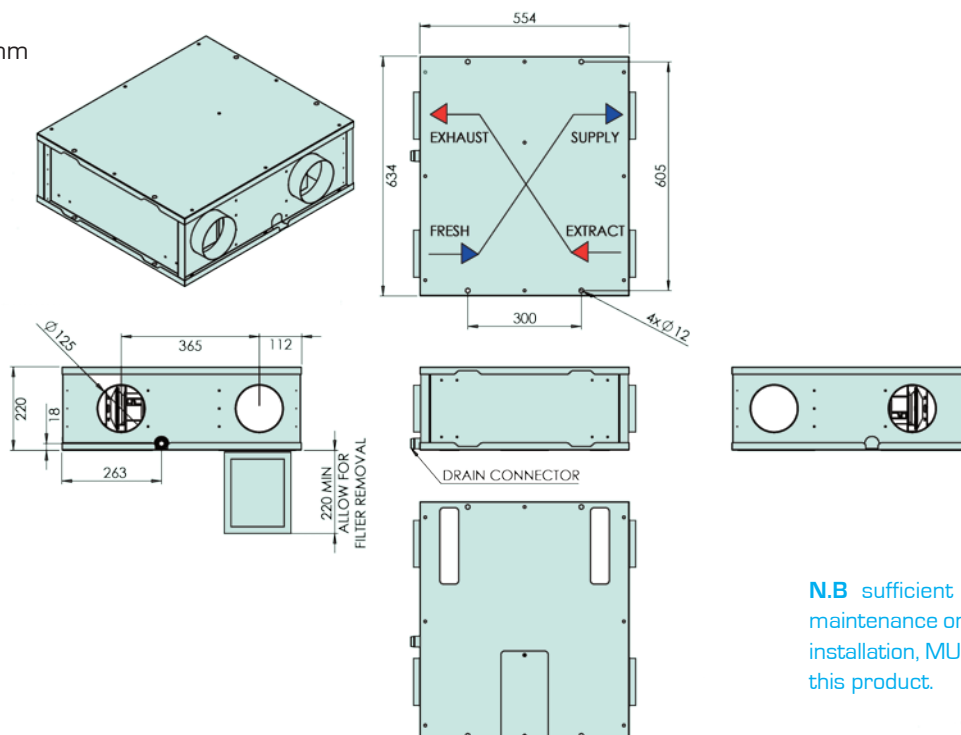


EVO220

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.