Lo-Carbon Response/SELV

dMEV Unit

Features & Benefits

- Recognised in SAP Appendix Q
- Constant volume
- Display showing airflow and system pressure (Patent pending)
- Switched live connection for external switches/sensors
- 220-240V input
- Datalogger feature on Humidistat models
- 6l/s or 8l/s trickle speed selection
- 13l/s boost speed
- IPX4 rated
- Multi-orientation grille – grille can be rotated by 90/180 degrees to suit ceiling configuration requirements
- New comfort control option (patent pending)

Lo-Carbon Response

Continuous running, constant volume dMEV unit with switched live (LS) and innovative digital display. Quiet running and with high pressure development, the Response is best in class.

The New Response fan from Vent-Axia

Following the introduction of the new Domestic Ventilation Compliance Guide within Part F 2010, and the requirement to test the installed airflow of extract fans, the new Response fan from Vent-Axia provides the easiest install available.

The unique display (patent pending) provides the calibrated installed airflow and pressure of the installation meaning that there is no need to test the installation with an airflow measuring device.

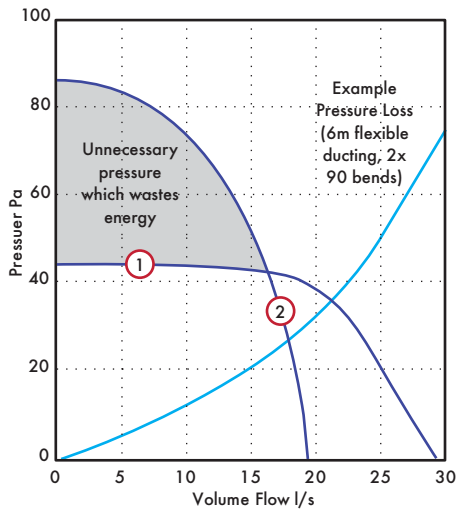
The constant volume technology automatically adjusts the speed of the fan to ensure the desired airflow is delivered. With a new silent higher pressure axial impeller Lo-Carbon Response can meet the requirements of many domestic installation without the need to use a traditional centrifugal fan.

Axial, rather than centrifugal?

Using the new high pressure silent axial impeller has enabled the fan to not only develop great installed performance over duct runs, but to do it in the most energy efficient way. Response can provide excellent pressure whilst still maintaining the energy efficiency and not wasting energy on high pressure at low air volumes.

Configuration	Location	Alternative Centrifugal Fan SFP	Vent-Axia Response SFP
In room	Kitchen	0.38	0.17
	Wet Room	0.29	0.18
Through Wall	Kitchen	0.36	0.13
	Wet Room	0.28	0.15

Existing centrifugal fans often develop pressure but the actual installed airflows can mean that the pressure is of no use as the airflow falls below the requirement. This enables the fan to save up to 64% of the specific fan power (SFP) of the SAP Appendix Q data for existing centrifugal alternatives.



1. Vent-Axia Lo-Carbon Response Fan
2. Competitor Product

Side view of airflow display

Be confident that the Response is delivering the right performance with our innovative digital display showing the airflow and system pressure of the installed product.

Comfort Control Option

Designed to offer a more relaxing environment to the homeowner, the Lo-Carbon Response features a delayed start option. This new, patent pending comfort control option is selectable at installation and allows the homeowner to enjoy a quiet, peaceful bathroom for up to 20 minutes before the Boost activates. Furthermore, if the light switch turns On and Off within 3 minutes, the Boost will not activate. No more disturbing the family if the bathroom light is turned on during the night.

SAP Appendix Q Performance

Unit

Configuration	Location	SFP (W/l/s)
In room (rigid duct)	Kitchen	0.17
In room (rigid duct)	Wet Room	0.18
In room (flex duct)	Kitchen	0.17
In room (flex duct)	Wet Room	0.16
Through wall	Kitchen	0.13
Through wall	Wet Room	0.15

Model

Lo-Carbon Response dMEV

Auto speed selection at installation. The integral air pressure sensor checks the airflow when first installed and also helps the fan to compensate for external wind pressure.

Stock Ref
404535

Lo-Carbon Response/SELV TP (Timer/Pullcord)

For kitchen, utility and bathroom/toilet applications, the continuous running TP model incorporates an adjustable overrun timer. This adjusts the time the fan will continue to run on boost after the LS connection has been deactivated. This is also the run time period for the pullcord.

Model	Stock Ref
TP	404876
SELV TP	404878

Lo-Carbon Response/SELV HTP (Humidistat/Pullcord)

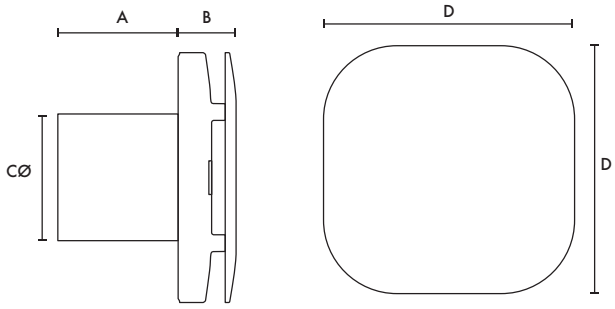
For kitchen, utility and bathroom/toilet applications, the continuous running HTP model incorporates an adjustable (40% - 90%) ambient response humidistat. The fan will increase the extract rate if the humidity rises above the point set at installation. Datalogger as standard.

Model	Stock Ref
HTP	404877
Response SELV HTP	404879

Wall Kit

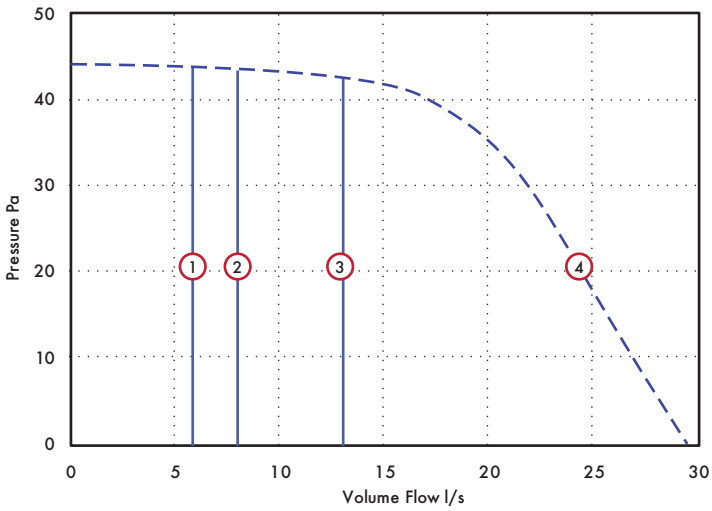
Model	Stock Ref
White	254102
Brown	254100

Dimensions (mm)



A	B	CØ	D
90	45	99	190

Performance Curve



1. 6l/s Constant Volume
2. 8l/s Constant Volume
3. 13l/s Constant Volume
4. Maximum pressure available to deliver airflow

Performance Curve

	Extract Performance l/s (m³/h) - FID			Watts			dB(A) @ 3m		
Model	Trickle Low	Trickle High	Boost	Trickle Low	Trickle High	Boost	Trickle Low	Trickle High	Boost
Lo-Carbon Response	6 (21)	8 (29)	13 (43)	1.0	1.2	1.7	12	17	32.5