

CI/SfB

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2nd Edition

Energy Efficient • Near Silent • Simple to use • Discrete



the **ELECTRICAL**  
industry awards  
**WINNER 2011**

Winners of the Energy Efficiency Initiative 2011 Award  
with our Lo-Carbon Continuous Ventilation Product Range.

De-centralised Continuous Ventilation

**Vent-Axia**<sup>®</sup>  
**Lo-Carbon**<sup>™</sup>

# De-centralised Continuous Ventilation



## Bathroom - Lo-Carbon Centra

- Near Silent in operation
- Small footprint (20% smaller than other dMEV fans available)
- Shallow profile
- Energy use - down to 1.4 watts
- Available in SELV



## Kitchen - Lo-Carbon Quadra

- Discrete styling
- Filterless, maintenance free design
- Smallest footprint for a maintenance free fan available
- Energy use - down to 3 watts
- Available in SELV



## Bathroom - Lo-Carbon Tempra

- Ideal for use through the wall
- Providing up to 80% heat recovery
- Designed to be used as a dMVHR system
- Fits through a 100mm hole
- Can be Retro fitted to replace existing traditional 100mm fans

# Near Silent running, Discrete Energy Efficient, Ventilation

## Lo-Carbon Quadra - Kitchen Options

### Lo-Carbon Quadra TP/SVTP (Timer/Pullcord)

Dual speed continuous running or intermittent to high speed. High speed via pullcord (on/off) or switch live (with overrun timer)

Model	Stock Ref
TP	439251
SVTP	442865
TP Datalogger	443811
SVTP Datalogger	446269

### Lo-Carbon Quadra HTP/SVHTP (Humidistat/Timer/Pullcord)

Dual speed continuous running or intermittent to high speed. High speed via integral pullcord (on/off), integral adjustable humidity sensor or switch live (with overrun timer)

Model	Stock Ref
HTP	439181
SVHTP	442866
HTP Datalogger	443812
SVHTP Datalogger	446270

### Lo-Carbon Quadra TM/SVTM (Timer/PIR)

Dual speed continuous running or intermittent to high speed. High speed via integral PIR sensor or switch live (both with overrun timer)

Model	Stock Ref
TM	439253
SVTM	442867

## Lo-Carbon Centra - Bathroom Options

### Lo-Carbon Centra

Optional Constant Volume. The integral digital air velocity sensor will monitor the airflow and maintain the preset extract flow rate of either 6l/s, 9l/s or 15l/s, minimising energy use and noise.

Stock Ref
441782

### Lo-Carbon Centra/SELV T (Timer)

Ideal for bathroom and toilet applications, this unit runs continuously on trickle setting and may be boosted by the switched live input which activates the timer (adjustable up to 30 minutes).

Model	Stock Ref
T	442954
SELV T	443175

### Lo-Carbon Centra/SELV TP (Timer/Pullcord)

For bathroom/toilet applications, the continuous running TP model is boosted by the pullcord or by a switched live input which activates the timer (adjustable up to 30 minutes).

Model	Stock Ref
TP	447127
SELV TP	447128

### Lo-Carbon Centra/SELV HT (Humidistat/Timer)

For bathroom/toilet applications, the continuous running HT model is automatically boosted by the built-in humidistat or by a switched live input which activates the timer (adjustable up to 30 minutes).

Model	Stock Ref
HT	442955
SELV HT	443176

### Lo-Carbon Centra/SELV HTP (Humidistat/Pullcord)

For bathroom/toilet applications, the continuous running HTP model is automatically boosted by the built-in humidistat or by the pullcord which activates the timer (adjustable up to 30 minutes).

Model	Stock Ref
HTP	443045
SELV HTP	443177

## Lo-Carbon Tempra - Bathroom Options (with heat recovery)

### Lo-Carbon Tempra P (Pullcord)

Constant trickle speed with Pullcord to boost Or intermittent operation by pullcord

Model	Stock Ref
P	443312
SELV P	444368

### Lo-Carbon Tempra T (Timer)

Constant trickle speed with switch live to boost Or intermittent operation by switch live

Model	Stock Ref
T	443310
SELV T	444369

### Lo-Carbon Tempra HTP (Humidistat/Timer/Pullcord)

Constant trickle speed with Humidistat and linked overrun timer to boost Or intermittent operation by switch live

Model	Stock Ref
HTP	443311
SELV HTP	444370

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## Performance Guide

### Quadra/SELV

Model	Extract Performance				Power consumption (Watts)		Sound dB(A) @ 3m	
	High		Low		High	Low	High	Low
	m <sup>3</sup> /h	l/s	m <sup>3</sup> /h	l/s	Watts	Watts		
Lo-Carbon Quadra/SELV TP	216	60	22	6	35.7	3.8	50	20
Lo-Carbon Quadra/SELV HTP	216	60	22	6	35.7	3.8	50	20
Lo-Carbon Quadra/SELV TM	216	60	22	6	35.7	3.8	50	20

\*Tested in through the wall installation

### Centra/SELV

Model	Extract Performance (l/s)			Power consumption (Watts)			Sound dB(A) @ 3m		
	Trickle	Trickle	Boost	Trickle	Trickle	Boost	Trickle	Trickle	Boost
	low	high		low	high		low	high	
Lo-Carbon Centra	6	9	15	1.4	1.6	2.4	10.8	15.5	25.2
Lo-Carbon Centra/SELV T	6	9	15	1.4	1.6	2.4	10.8	15.5	25.2
Lo-Carbon Centra/SELV TP	6	9	15	1.4	1.6	2.4	10.8	15.5	25.2
Lo-Carbon Centra/SELV HT	6	9	15	1.4	1.6	2.4	10.8	15.5	25.2
Lo-Carbon Centra/SELV HTP	6	9	15	1.4	1.6	2.4	10.8	15.5	25.2
Lo-Carbon Centra CO <sub>2</sub>	6	9	15	1.4	1.6	2.4	10.8	15.5	25.2

### Tempra/SELV

Model	Extract Performance l/s			Power consumption (Watts)			Sound dB(A) @ 3m		
	Trickle Low	Trickle		Trickle Low	Trickle		Trickle Low	Trickle	
		High	Boost		High	Boost		High	Boost
Lo-Carbon Tempra P/SELV P	6	9	15	3.2	5.7	26.6	20	22	36
Lo-Carbon Tempra T/SELV T	6	9	15	3.2	5.7	26.6	20	22	36
Lo-Carbon Tempra HT/SELV HT	6	9	15	3.2	5.7	26.6	20	22	36

\*Octave band frequency range of 250Hz to 4KHz at 3m. Unit mounted on a reflective surface.

# Vent-Axia®

De-centralised continuous ventilation

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## Continuous Decentralised Ventilation - The Principle Providing Comfort in our Homes

With the Decent Home Programme helping to bring housing stock up to date, we now understand more about building performance than ever before. As the stock continues to be improved, we can now develop sympathetic ventilation systems which are designed to fit in our buildings and also with the way we live our lives. The new range of decentralised ventilation systems from Vent-Axia fit discretely into our homes and provide near silent, energy efficient ventilation in a more comfortable way.

Air infiltration, especially in our existing housing stock will occur naturally and this can be used successfully as air replacement to aid ventilation systems. As you can see by the graph below, traditional intermittent ventilation systems often provide peaks of high extract airflow which exceed the natural infiltration rates, this means we are simply warming indoor air and extracting it to atmosphere which is hardly energy efficient. The new systems from Vent-Axia are designed to work with the natural air infiltration and control the air path from the building thus preventing migration of damaging humidity and pollutants. This is achieved by using continuous low speed running extract fans in the wetrooms (bathrooms, kitchen and utility rooms) with a boost via the light switch, an integral pullcord or sensor when higher ventilation rates are required.

## The Benefits

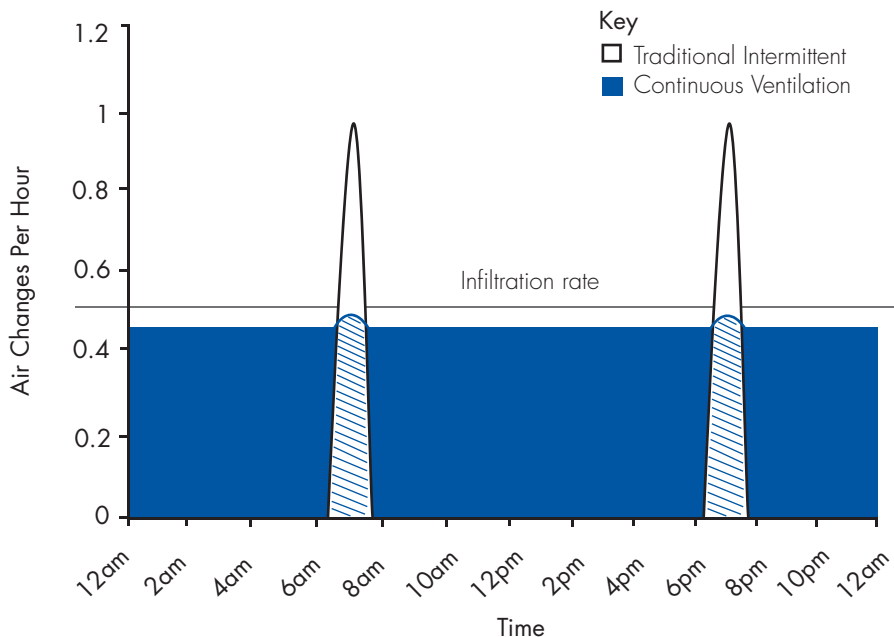
By providing ventilation in this way the extract systems can run at a much lower rate all the time, rather than at a high rate for 1 or 2 hours a day. This has a range of benefits including:

**Energy Efficiency** - no over ventilation, so reducing unnecessary heat loss

**Near Silent Ventilation** - low speeds mean very low noise levels

**No Trickle Vents Needed** - the low rates mean that adequate replacement air is available naturally

The graph below indicates the natural air change rate from a building with a leakage rate of  $10\text{m}^3\text{hm}^2 @50\text{pa}$





By Appointment to H.M. The Queen  
Suppliers of Unit Ventilation Equipment  
Vent-Axia, Crawley, West Sussex

# Vent-Axia®

## VENT-AXIA CONTACT NUMBERS

Free technical, installation and sales advice is available

### Sales Centre:

#### Domestic & Commercial

Sales Tel:	0844 856 0590
Sales Fax:	01293 565169
Tech Support Tel:	0844 856 0594
Tech Support Fax:	01293 539209

### Supply & Service

All sales made by Vent-Axia Limited are made only upon the terms of the Company's Conditions of Sale, a copy of which may be obtained on request. As part of the policy of continuous product improvement Vent-Axia reserves the right to alter specifications without notice.



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