

CI/SfB

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2nd Edition

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

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



Lo-Carbon Tempra



Single Room Heat Recovery

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

# Lo-Carbon Tempra/SELV

## Revolutionary heat recovery replacement for kitchen and bathroom fans

### Features & Benefits

- **Fits in 100mm diameter hole – ideal for refurbishments**
  - **80% heat recovery**
  - **Reduces your carbon footprint**
  - **Choice of control options**
  - **Suitable for refurbishment**
  - **Summer setting**
  - **Helps prevent noise ingress**
  - **Continuous running or intermittent extract**
  - **Meets Building Regulations Part F and L.**
  - **Low SFP of 0.3W/l/s**
  - **IPX4 rated**
- **Low energy consumption, low noise**  
The unique twin impeller design consumes as little as 2.0 Watts and operates almost silently on trickle setting.
  - **SELV for Safety**  
Also available in Safety Extra Low Voltage, the Tempra can fit in almost any residential application.
  - **Complies with Building Regulations Part F 2010**  
Complies with Part F, System 1 and may also be used in conjunction with System 3, continuous mechanical extract ventilation.
  - **Complies with Building Regulations Part L 2010**  
Low energy consumption means the Tempra exceeds the energy saving requirements in Part L, Conservation of Fuel and Power.
  - **Versatile control**  
Switching on/off or from trickle to boost speeds is possible in several ways: Switched Live, Pullcord or Humidistat. Overrun and delay start timers are also available.
  - **Summer Setting**  
The extract-only Summer Setting helps keep you cool by closing off the intake from outside, reducing the amount of warm air entering the dwelling.
- **Heat Recovery Ventilation**  
A fan which recovers up to 80% of the heat from extracted air and puts it back into the fresh incoming air.
  - **Fits 100mm diameter hole**  
The Tempra will fit 100mm through the wall applications as a straight replacement for a traditional extract fan.
  - **Continuous or intermittent flow rates**  
Air flows can be set to quiet, low speed continuous rates or high speed intermittent boost rates.



# Single Room Heat Recovery Unit



## Near Silent Running, Discrete, Energy Efficient Ventilation

### Legislation

The Lo-Carbon Tempra complies with the air flow requirements of the new Building Regulations Part F 2010 and with the energy consumption requirements of Part L 2010. For 'best practice', Part F requirements apply to both new build and refurbishment installations.

### Part F 2010

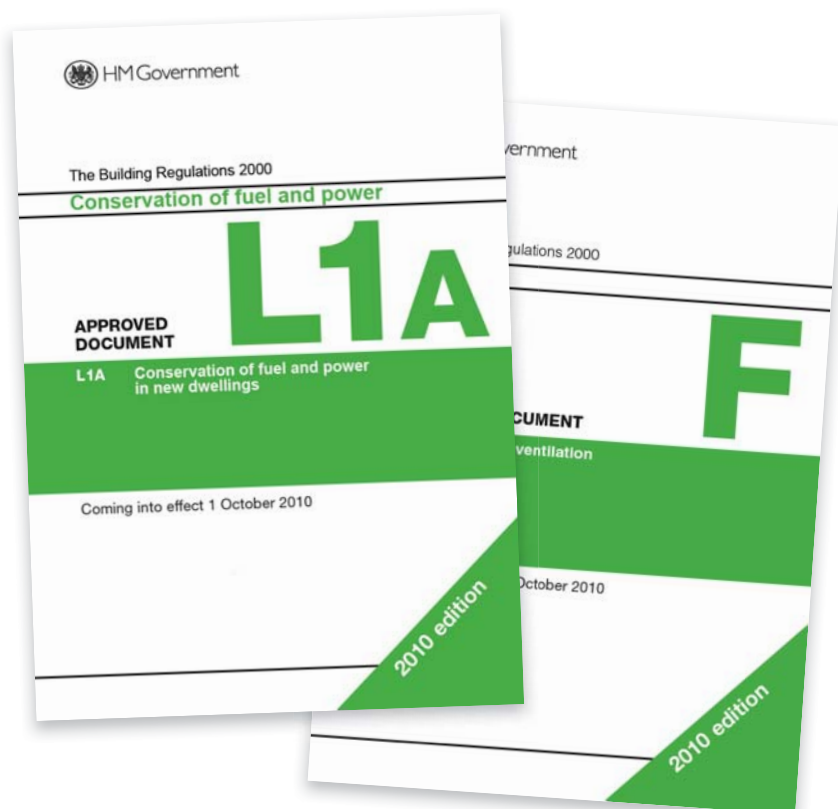
There are three means of mechanical ventilation specified in the Building Regulations: System 1, Intermittent Extract Fans, System 3, Continuous Mechanical Extract (MEV) and System 4, Continuous Mechanical Supply and Extract with Heat Recovery (MVHR).

System 1. Instead of using a traditional intermittent extract fan, the Tempra, running on continuous setting may be used. This method has the advantage of reducing the overall background ventilation requirement by 2500mm<sup>2</sup> and removing the need for background ventilation in the room in which the unit is sited.

System 3. Using Tempra in conjunction with MEV/dMEV permits a reduction in the overall dwelling extract rate. This is particularly useful for extensions, loft conversions and refurbishments which might otherwise be difficult to ventilate.

### Part L 2010

Building Regulations Part L1A and L1B 2010, Conservation of Fuel and Power refer to the energy performance requirements set out in the Building Services Compliance Guide. Tempra falls comfortably within the specific fan power (SFP) requirement of 1.5 Watts per litre per second (W/l/s) for MVHR.



# Vent-Axia®

Single Room dMVHR



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## Continuous Decentralised Ventilation - Providing comfort in our Homes

As housing stock is being brought up to date, we now understand more about building performance than ever before. A single room heat recovery unit such as Tempra providing up to 80% heat recovery has been designed specifically for the refurbishment market. The new Tempra fits neatly into our homes via the 100mm spigot, ideal for through the wall applications to enable direct replacement to traditional extract methods.



### Kitchen - Tempra

- Ideal for use through the wall
- Continuous trickle speed and integral boost complying with system 3 of Part F 2010.
- No requirement for trickle ventilators

### Bathroom - Tempra

- Ideal for use through the wall
- Continuous trickle speed and integral boost complying with system 3 of Part F 2010
- Can be used as an intermittent alternative to an extract fan
- No requirement for trickle ventilators



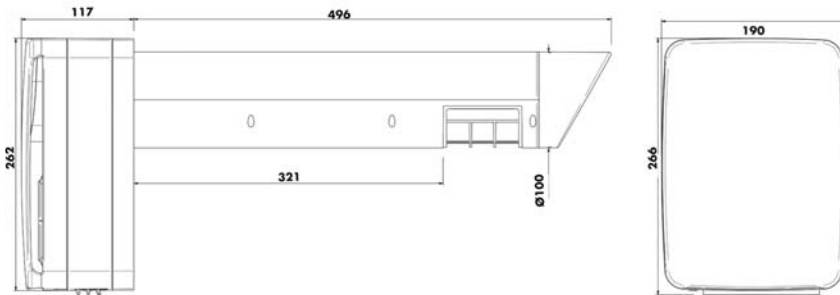
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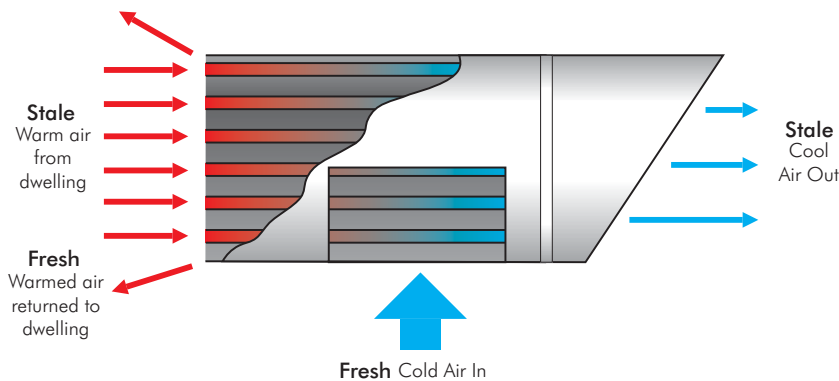
## Your Carbon Footprint

The Carbon Footprint is a measure of the amount of carbon dioxide (CO<sub>2</sub>) emitted through the burning of fossil fuels. From a residential and commercial building perspective, it is the amount of carbon generated when you produce a kilowatt of electricity. Reducing a building's carbon footprint will ultimately reduce electricity bills and save money for every individual household or business. It will also help meet the UK target for the reduction of emissions, as well as allowing you to help the environment.

### Dimensions (mm)



### Heat Exchange (what is heat recovery?)



### Models

#### 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

### Performance

Model	Stock ref	Extract Performance l/s			Power Consumption Watts			Sound @dB(A)		
		Trickle Low	Trickle High	Boost	Trickle Low	Trickle High	Boost	Trickle Low	Trickle High	Boost
Lo-Carbon Tempra P/SELV P	443312/444368	6	9	15	3.2	5.7	26.6	20	22	36
Lo-Carbon Tempra T/SELV T	443310/444369	6	9	15	3.2	5.7	26.6	20	22	36
Lo-Carbon Tempra HTP/SELV HTP	443311/444370	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.



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

#### Industrial

Sales Tel: 0844 856 0591  
Sales Fax: 01293 534898  
Tech Support Tel: 0844 856 0595  
Tech Support Fax: 01293 455197  
**Web:** [www.vent-axia.com](http://www.vent-axia.com)  
**Email:** [sales@vent-axia.com](mailto:sales@vent-axia.com)

## 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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