



## Energy Efficient Condensation-Control Unit



### What is the ECO<sub>2</sub> Loft?

The Mr Venty ECO<sub>2</sub> Loft is an energy efficient condensation-control unit for homes with a loft space.

The unit gently ventilates the home from a central position on the landing in a house or the central hallway in a bungalow to transform a stagnant and stale atmosphere into a fresh, healthy and condensation free environment.

For more information about how it works, turn to page 14.

### features & benefits

- Reduces/eliminates surface condensation
- Quiet operation
- Eliminates mould
- Stops streaming windows
- Removes musty odours
- Can reduce heating costs
- Benefits asthma sufferers
- BBA approved
- Superior long life filters
- Low running costs
- Integral intelligent comfort heater (as standard)
- 5 year guarantee

### Energy Saving Benefits

#### ✓ Minimum Energy Consumption

Powered by an Ultra Low Watt Brushless DC Motor, the ECO<sub>2</sub> Loft utilises the latest technology to ensure minimum energy consumption and long term trouble free life.

#### ✓ Solar Gain

The unit takes maximum advantage of the benefits of solar gain from within the loft space - the natural accumulation of heat from the sun on bright days.

Temperatures in the loft space are on average 3°C higher than outside, which results in a relative saving of around 150 Watts per day in an average modern family home. This equates to approximately 10% of annual heating costs.

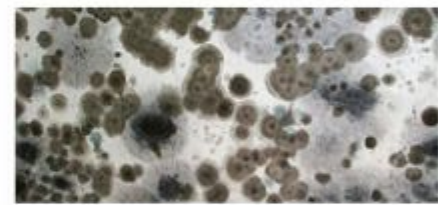
#### ✓ Heat Distribution

Warm air accumulates at ceiling level. This air can be up to 7°C higher than the internal air at ground level. By introducing an almost imperceptible air supply into the dwelling from the loft space, the ECO<sub>2</sub> Loft helps to redistribute heat around the home and thus reduce space heating costs.

#### ✓ No Need To Open Windows

To reduce humidity and condensation during the heating season, significant energy loss occurs by opening windows. By installing an ECO<sub>2</sub> Loft and providing fresh filtered air to the home humid air is displaced without opening windows and thus making significant savings to the occupier.

### Health Benefits



With improved building features in our homes, such as cavity wall insulation, double glazing and draught proofing, 'natural ventilation' is prohibited.

Stale air is trapped causing streaming windows, which ultimately leads to musty smells, dampness and mould growth.

These mould spores are known allergens and become airborne at the slightest disturbance. The microscopic spores are then inhaled and can trigger respiratory problems such as asthma, dust allergies and hayfever.

The ECO<sub>2</sub> Loft draws fresh air into the dwelling from outside and filters it before being delivered into the property. Moisture-laden air is diluted, displaced and replaced with clean, tempered and filtered air.

This eliminates or reduces surface condensation, which causes mould growth, providing a significant improvement in the health of asthma sufferers and general indoor air quality.



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## Environmentally Friendly

With 5 year on-going maintenance free warranties and superior long life filters the unit achieves the lowest life-cycle costing. All repairs, maintenance and component replacement is carried out simply and quickly by exchanging the filters and consumable items. The worn out components are then taken back to the factory to be recycled thus reducing the impact on landfill and saving millions of pounds in replacement costs.

## Pre-Heater and Hours Run Meter

The integral pre-heater is designed to temper the incoming air during periods of low external temperatures. A sensor monitors incoming air and pulses the heater to ensure temperatures are held to pre-set minimums. Two independent safety cut-out devices shut down the heater in the event of fan failure.

The heater facility is controlled independently from the fan by a conveniently positioned enable/disable switch. For monitoring of operational life and verification of usage, an integral Hours Run Meter is fitted.



## Upgrade ECO<sub>2</sub> Air

Beyond traditional input ventilation, the ECO<sub>2</sub> Air has the facility to source cooler air from outside the building when the temperature in the loft space rises above 25°C. Detecting the rise in temperature, the unit starts to draw air from the atmosphere. This not only provides efficient perception cooling into the property during warmer weather, but also maintains the required level of ventilation continuously throughout the year. This facility is greatly beneficial for properties affected by high levels of Radon.



## Annual Running Costs

Annual running costs with heater DISABLED. All costs are based on an electricity cost of £0.15 per unit (kWh). The calculations must therefore be used as a guide only. The ECO<sub>2</sub> Loft has been calculated at 320 days supplying air through the filter and 45 days sourcing directly from outside taken from average annual temperatures.

### Settings

ECO <sub>2</sub> Loft		ECO <sub>2</sub> Air	
Trickle	Medium	Trickle	Medium
£4.86	£5.85	£4.41	£5.70

### Comparisons against other household appliances

Household Appliance	ECO <sub>2</sub> Loft Time required to consume £5.85 of electricity	ECO <sub>2</sub> Air Time required to consume £5.70 of electricity
Fridge Freezer	20 Days	19.7 Days
42" TV (Viewing Time)	20 Days	19.6 Days
100W Light Bulb	14.6 Days	14.3 Days
Home Computer	4.7 Days	4.6 Days
Games Console	4.7 Days	4.6 Days
Iron	41 Hours	41 Hours
Tumble Dryer	17 Hours	17 Hours
Coldfill Dishwasher	17 Loads	17 Loads

ECO<sub>2</sub> Loftlight available for air restricted lofts. Turn to page 19 for more information.



## Intelligent IQ Controls (optional)

The ECO<sub>2</sub> Loft IQ and ECO<sub>2</sub> Air IQ are available with a wireless control incorporating five mode settings: trickle, medium, high, boost and auto. Auto-mode enables or disables the heater.

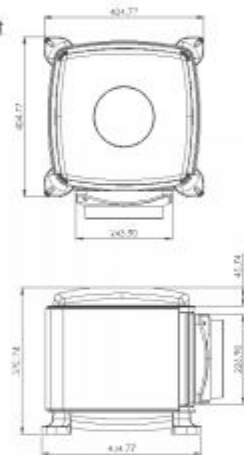


## Technical Information

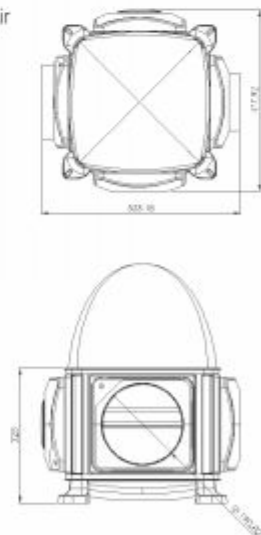
ECO <sub>2</sub> Loft	ECO <sub>2</sub> Air with summer by-pass activated	ECO <sub>2</sub> Air with summer by-pass NOT activated
Maximum Airflow l/s (m <sup>3</sup> /h)	Maximum Airflow l/s (m <sup>3</sup> /h)	Maximum Airflow l/s (m <sup>3</sup> /h)
51 (184)	52 (187)	46 (165)
Maximum Power (W)	Maximum Power (W)	Maximum Power (W)
9.3	14	8
Sound Levels dB(A) @ 3m	Sound Levels dB(A) @ 3m	Sound Levels dB(A) @ 3m
<15	<15	<15
Speed Settings	Speed Settings	Speed Settings
4	4	4

## Dimensions (mm)

### ECO<sub>2</sub> Loft



### ECO<sub>2</sub> Air



## Order Codes

E-LFT	ECO <sub>2</sub> Loft
E-LFTIQ	ECO <sub>2</sub> Loft IQ with wireless control
E-AIR	ECO <sub>2</sub> Air

E-AIR-IQ	ECO <sub>2</sub> Air IQ with wireless control
E-IN	ECO <sub>2</sub> Loftlight
EV/SMOKE	Smoke alarm for the units

For more information on this product call 0845 47 47 807

ECO<sub>2</sub> Loft