



Energy Efficient Condensation-Control Unit with Twin Inputs



What is the ECO₂ Twin?

The Mr Venty ECO₂ Twin is an energy efficient condensation-control unit with twin inputs for homes with a loft space.

It supplies fresh, filtered air throughout the home to transform a stagnant and stale atmosphere into a fresh, healthy and condensation-free environment.

features & benefits

- Provides all year round good indoor quality air
- Reduces/eliminates surface condensation
- Quiet operation
- Removes musty odours
- Enhances heat distribution
- Can reduce heating costs
- Benefits asthma sufferers by reducing dust mites and mould spores
- Reduces Radon levels
- Easy to install
- Low running costs
- Loft or external air supply
- Integral intelligent comfort heater (as standard)
- 5 year guarantee

• How is it different?

Instead of providing just a single source of fresh air into a property, usually located in a hallway or landing, the ECO₂ Twin has the ability to supply fresh, filtered air via twin inputs into areas with greater requirements for ventilation.

Fresh air inputs can be located in bedrooms or living spaces that suffer from particularly bad condensation or in the bedroom of an asthma sufferer to reduce the level of humidity and therefore the house dust mite population – a known trigger for allergies and asthma.



• Unique EnviroVent Mini Diffuser

Available with the ECO₂ Twin is the stylish EnviroVent energy saving diffuser, providing an innovative alternative to standard ceiling vents.

Fresh filtered air is gently supplied out of the diffuser along the ceiling where it dilutes, displaces and replaces high humidity levels and indoor contaminants.



• Make it MIV * Multi-Zone Destratification

Warm air accumulates at ceiling level and is normally lost through windows and extract fans. This air can be up to 7°C higher than the internal air at ground level. By introducing an almost imperceptible fresh air supply into multiple rooms, the ECO₂ Twin redistributes heat around the home by pushing the heat back down and keeping the convection currents moving to reduce space heating costs. By saving only 1 degree of heat this multi-zone destratification can cut fuel bills by 10%.



Energy Saving Benefits

✓ Minimum Energy Consumption

Powered by an Ultra Low Watt Brushless DC Motor, the ECO₂ Twin 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 ECO₂ Twin 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 ECO₂ Twin and providing fresh filtered air to the home humid air is displaced without opening windows and thus making significant savings to the occupier.





Upgrade ECO₂ Air Twin

Solar Gain and Summer Cooling

The ECO₂ Air Twin takes maximum advantage of the benefits of solar gain from the loft space throughout the year. Solar gain is the natural accumulation of heat from the sun on bright days. Temperatures in the loft are on average 3°C higher than outside and as the unit draws fresh air from the loft and delivers it into the property, this results in a saving of around 500 Kilowatts of energy per year in an average family home – equating to significant savings in annual heating costs.

Going beyond traditional input ventilation, the ECO₂ Air Twin has the facility to source cooler air from outside the building when the temperature in the loft space rises above 25°C. 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.



IntelligentIQ Controls (optional)

The ECO₂ Twin IQ and ECO₂ Air Twin IQ are available with a wireless control incorporating five mode settings: trickle, medium, high, boost and auto. Auto-mode enables or disables the heater.



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 ECO₂ Twin 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 ₂ Twin		ECO ₂ Air Twin	
Trickle	Medium	Trickle	Medium
£4.86	£5.85	£4.30	£5.21

Comparisons against other household appliances

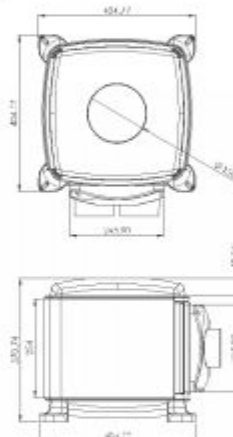
Household Appliance	ECO ₂ Twin Time required to consume £5.85 of electricity	ECO ₂ Air Twin Time required to consume £5.21 of electricity
Fridge/Freezer	20 Days	19.7 Days
42" TV (Viewing Time)	20 Days	19.6 Days
100W Light Bulbs	14.6 Days	14.3 Days
Home Computer	4.7 Days	4.6 Days
Games Console	4.7 Days	4.6 Days
Iron	41 Hours	41 Hours
Tumble Dryer	17 Hours	17 Hours
Coldfill Dishwasher	17 Loads	17 Loads

Technical Information

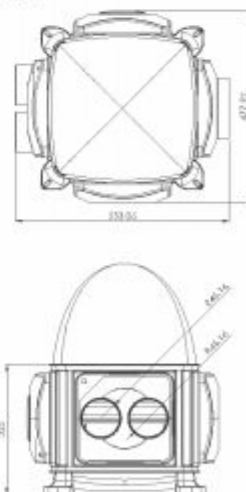
ECO ₂ Twin	ECO ₂ Air Twin with summer by-pass activated	ECO ₂ Air Twin with summer by-pass NOT activated
Maximum Airflow l/s (m ³ /h)	Maximum Airflow l/s (m ³ /h)	Maximum Airflow l/s (m ³ /h)
37 (133)	44 (158)	40 (144)
Maximum Power (W)	Maximum Power (W)	Maximum Power (W)
8.5	15.7	11.2
Sound Levels dB(A) @ 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)

ECO₂ Twin



ECO₂ Air Twin



ECO₂ Loftlight or ECO₂ Loftlight Twin versions - Ideal for air tight lofts or air restricted spaces



Order Codes

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

For more information on this product call 0845 47 47 807