

Damp and condensation problems?

**80%
HEAT RECOVERY
with Eclipse**

Tested and approved by the British Board of Agrement and the University of Portsmouth



Safe, whisper quiet operation that's virtually maintenance free

The Eclipse Heat Recovery Ventilator provides the answer

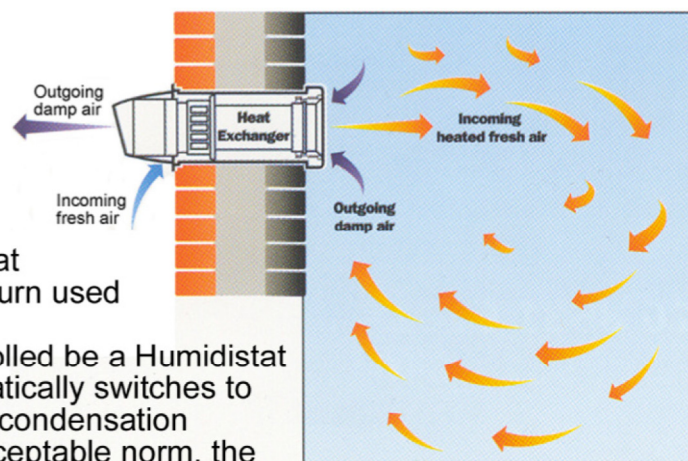
Damp and condensation problems can be found in buildings of all types. Everyday activities like washing, cooking and bathing increase humidity levels causing damp and condensation problems which can be hazardous to health. Modern insulation techniques like double glazing and draught exclusion may improve the thermal efficiency of a building, but allow for little natural ventilation. These conditions lead to damp and condensation problems which can damage the fabric of the building and cause health problems for its occupants. Damp conditions can be especially serious for people with respiratory problems. Recent research has established a link between asthma and the droppings of the common house dust mite which live in the warm, moist conditions found in properties that are adequately heated, but lack sufficient ventilation. The Eclipse from Stadium Ventilation provides single room heat recovery ventilation without the lost energy associated with extractor fans.

Performance

How the Eclipse works

The Eclipse provides a continuous air change in the room by replacing stale moisture-laden air with fresh warmed air. The stale air passes over an aluminium heat exchanger which recovers 80% of the heat which is in turn used to heat the fresh incoming air.

The Eclipse is fully automatic and its operation is controlled by a Humidistat sensor. As humidity levels increase, the Eclipse automatically switches to boost mode to clear the air that could cause damp and condensation problems. Once humidity levels have returned to an acceptable norm, the Eclipse returns to its whisper quiet trickle mode.



80% heat recovery and low running costs

The Eclipse recovers 80% heat when operating in trickle mode. This makes the Eclipse one of the most energy efficient heat recovery ventilators currently available and can make a significant difference to occupant's fuel bills.

Running costs are as little as 2.5p per day assuming that the majority of the running time is on trickle, perhaps 80-85%. This compares to a high extract rate fan which not only uses more energy and therefore costs more to run, but also removes valuable heat from the room.

The Eclipse is a SELV (Separated Extra Low Voltage) product and complies with current building regulations. As a demonstration of the Eclipse proves, its quiet running ensures that occupants are not disturbed by its operation. The Eclipse is virtually maintenance free and tamper proof. External air filters can be accessed by occupants when occasional cleaning is required.

Applications



The Eclipse is suitable for use in a wide variety of domestic, commercial and light industrial environments.

- Kitchens
- Bathrooms
- Utility Rooms
- Bedrooms
- Living Rooms
- Offices
- Offices
- Lavatories and washrooms

Typical damp and condensation problems solved by the Eclipse



Specification

Eclipse typical performance figures

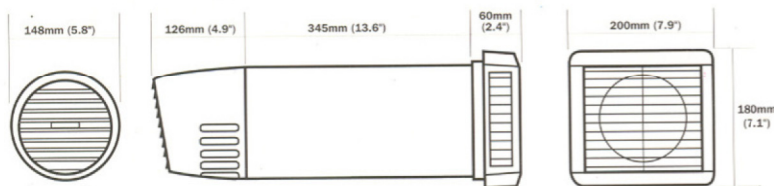
Test with outside air temperature at 7°C and inside room temperature at 23°C

Average Volume of air exchanged*	370m ³ /24h
External temperature	7°C
Internal temperature	23°C
Incoming air temperature	20°C
Heat exchange efficiency	80%
Noise factor on trickle less than (inaudible against background)	21 dBA
Noise factor on boost	45 dBA
Electrical consumption on trickle @ 240 Volts	9.3 Watts
Electrical consumption on boost	46 Watts
Diameter of fan blades	110mm
Diameter of core drill for fitting	152mm

**Assuming an average of 80% trickle and 20% boost speed*

Installation

The Eclipse can be quickly and cleanly installed using a 152mm (6") core drill which makes it especially suitable for high rise locations where installation can be carried out from inside the building.



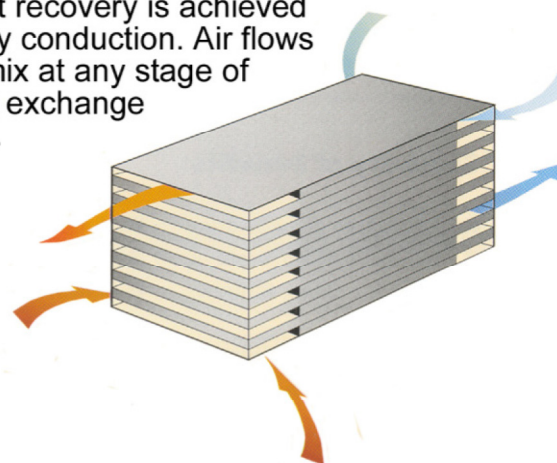
Suitable for wall thickness from 229mm - 356mm (9" - 14")

Summary of benefits:

- Eliminates condensation
- Removes damp, stale air
- Provides clean, filtered fresh air
- Removes dust mites
- Saves valuable energy
- Low running costs
- Tamper proof
- Whisper quiet
- SELV

Heat Exchanger

The Eclipse's aluminium heat exchanger (patent applied for) recovers around 20% more heat when compared to other heat recovery ventilators using plastic heat exchangers. The unique design of the heat exchanger ensures that heat recovery is achieved purely by conduction. Air flows do not mix at any stage of the heat exchange process.



Remotely housed Humidistat

Remotely mounted from the fan assembly to ensure consistent and reliable sensing.



Your guarantee

Purchasing an Eclipse gives you peace of mind by eliminating damp and condensation problems which will reduce maintenance and redecoration costs.

The unique heat exchanger is covered by a full 10 year guarantee with all other parts guaranteed in full for 2 years.

Approvals

The Eclipse meets the following standards:

- BS 3456 / BSEN 60730
- Electro Magnetic Compatibility (CE)
- BEAB
- British Board of Agreement
- CE marked