



Heat Recovery Unit



Heat recovery units specifically designed to eliminate excessive moisture and so helping to prevent condensation

Description

The heat recovery units for single rooms have been specifically designed to eliminate excessive moisture and so helping to prevent condensation with the inherent risks to property and health whilst retaining up to 80% of heat contained within the outgoing air.

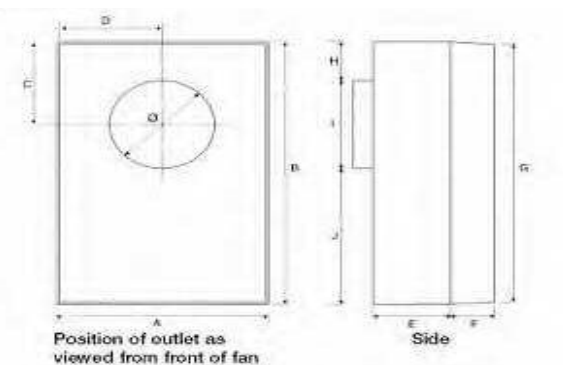
The range is available in 230v or 12v models depending upon installation criteria. All models run continuously on trickle speed and have various options to change to fast speed - see model table below. Mounting Kits Available in Brown, White, Terracotta and Stone

Properties:

- Wall, Window or Ceiling mounted
- Integral Humidity Sensors
- Energy saving manual Pullcord override
- 2 year no quibble guarantee
- Recovers up to 80 % of heat that would otherwise be lost
- Simple Installation
- CE

All units are manufactured to have balanced airflow so as not to interfere with conventional gas boilers / heating systems where negative air pressure within a problem may cause a problem.

Dimensions:



Condensation...its causes and effects.

Water is deposited on the cooler surfaces in a building, particularly in winter. The first indication is usually black mould growth in the worst affected areas. This growth is characteristic of condensation because mould need pure water for their growth and development. In severe cases the amount of water may be great causing pools of water on the floor, windowsills or on clothing and furniture.

Householders often find it difficult to believe that such severe damp problems can be caused by condensation alone. Often they believe there must be some sort of building defect which is usually not the case.

Often the condensation can occur at low levels where the surface of the wall is coolest, starting in a corner and then spreading along the length of the wall. This may appear to be rising damp and can easily be confused.

Why has condensation become such a common cause of damp?

If the water vapour in the air of a home can escape somewhere, condensation would never occur. When homes were more draughty and open fires common, damp air would mainly escape up the chimney. Houses are now significantly better insulated hence the moisture has nowhere to go and hence condensation problems have grown significantly.

Mould growth

Mould growth is a typical consequence of condensation problems in a home. Moulds are often most severe in room corners and on external walls. This is mainly because insufficient ventilation creates pockets of stagnant air in such corners.

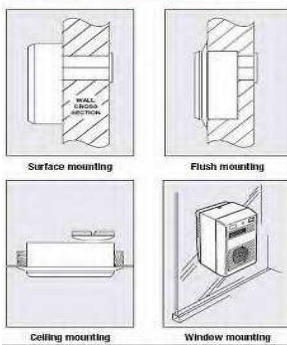
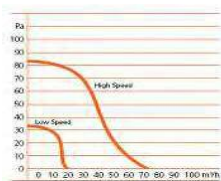
Features

- Wall, Window or Ceiling mounted
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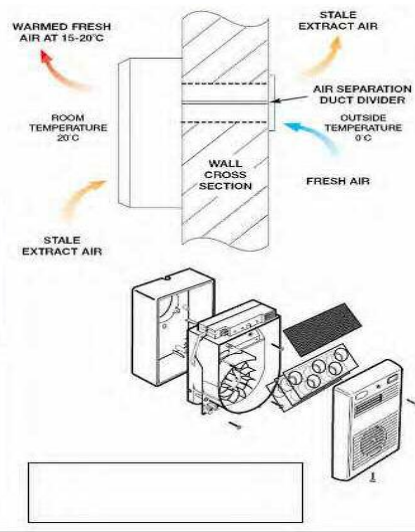
Data

| Technical Data | | |
|------------------------|-------------------------------------|------------------------------|
| Material | Fan | White ABS Plastic |
| | Filter | White washable fibre |
| Extract Volumes | High | 72m ³ th (20 lbs) |
| | Low | 22m ³ th (5 lbs) |
| | SELV | 70m ³ th (18 lbs) |
| Intake Volumes | High | 27m ³ th (8 lbs) |
| | Low | 9.5m ³ th (3 lbs) |
| | SELV | 25m ³ th (7 lbs) |
| IP Rating | | IP24/IP21 |
| Weight | | 1.6kg |
| Electrical Consumption | 15-40W | |
| Electrical Supply | 230V AC-50HZ / SELV 12V-12VA | |
| Safety | Thermal cut-out protection on motor | |
| Ducting | 100mm diameter PVC rigid ducting | |
| DBA@3mts | High speed | 35 |
| | Low speed | 35 |
| Window hole size | 120mm Ø | |
| Wall hole size | 115mm Ø | |
| Ceiling hole size | 120mm Ø | |

Performance Graphic



Typical Installation



Technical Data

| Data | |
|-----------------|--|
| Construction | These units are made of strong and durable self-extinguishing plastic for strength, durability and finish. |
| Electrical | 220-230V ~ A.C. 50Hz Single phase consuming 15 - 40 watts. These units do not require an earth. All wiring must comply with current IEE regulations. A double pole isolating switch, having a contact separation of at least 3mm in all poles, must be used with a 3 amp fuse fitted |
| Installation | <ul style="list-style-type: none"> Both 230v and 12v ranges are designed to be wall, window or ceiling mounted. Kits available on request. Installation through a wall or ceiling requires a 117mm hole, through a window a 126mm hole. Do not install above a heat source e.g. cooker, radiator. It is recommended to change the internal filter on a yearly basis. |
| Additional Data | <ul style="list-style-type: none"> Maximum Pressure: 30Pa low speed, 80Pa high speed Power Consumption: 15 – 40W Sound Volume: 15dBa low speed, 35dBa high speed Maximum Operating Temperature: 55 degrees C Protection rating: IPx4 Running Costs: typ less than £1.00 per month (based on slow speed running 24 hours per day) |

DO YOU KNOW WHAT'S GOING ON IN YOUR HOME?



MOISTURE

The typical household creates around 100 pints per week - from showers, baths, cooking etc.



CHEMICAL EMISSIONS

From every day household furnishings, building products etc.



FUMES

From tobacco products, exhaust gases etc.



DUST

From furniture, carpets, bedding etc.

= Poor Air Quality = Condensation, Damp & Mould

TO UNDERSTAND THE SOLUTIONS TO CONDENSATION, DAMP AND MOULD,
-THE CAUSES HAVE TO BE IDENTIFIED



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