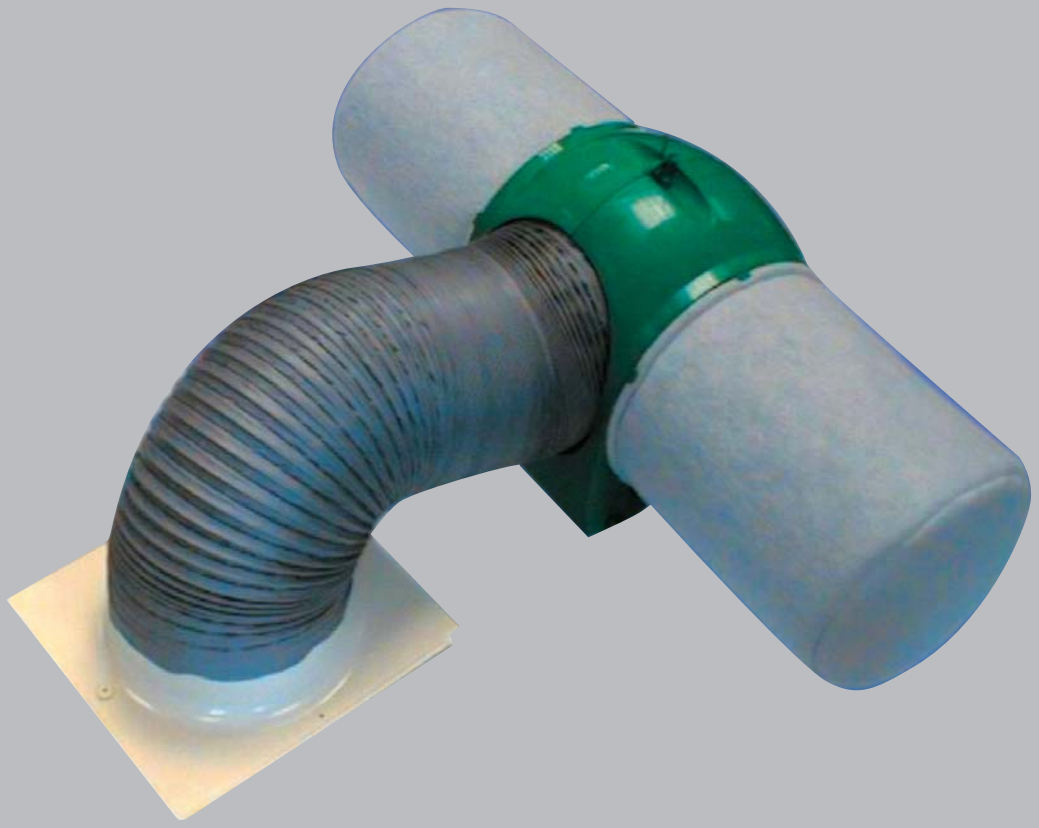
DRIMASTER - POSITIVE INPUT VENTILATION (PIV)



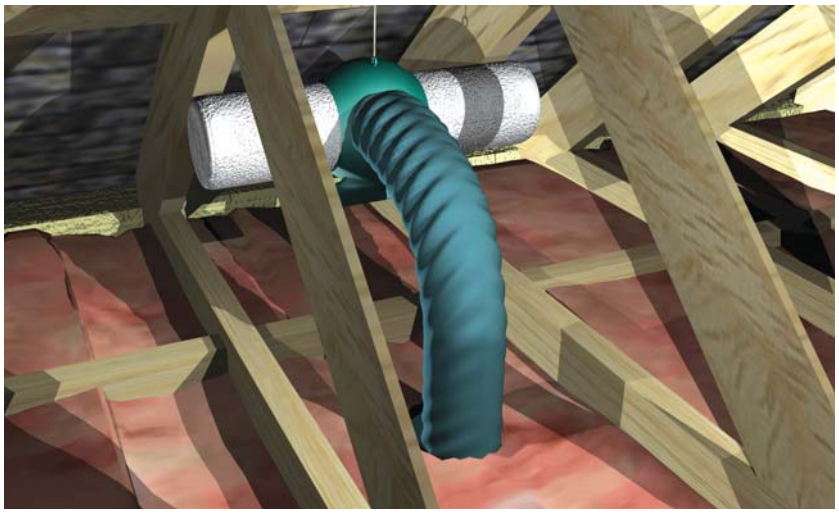
Low cost whole house ventilation that meets building regulations, saves energy and prevents condensation.

BENEFITS

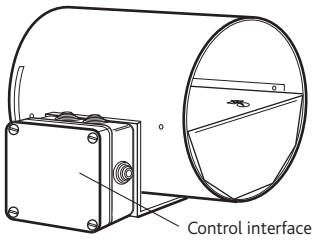
- **Extremely low power consumption**
  Average approximately 0.16 watts / litre / second and solar gains up to 550kW / hr / year.
- **Easy installation & very low maintenance requirement**
  (Filter clean or replacement every 5 years).
- **Quiet operation**
- **Significantly improves indoor air quality**
  Using positive input ventilation removes indoor air pollutants such as carbon monoxide and keeps out traffic fumes, pollen and outdoor pollutants.
- **System standby mode**
  For summer months when loft temperature exceeds 27°C.
- **Complies with the Building Regulation Ventilation requirements**
  And contributes towards 'conservation of fuel and power'. (Please refer to BBA Certificate 00/3727 for full details).
- **New Build "good practice" rating in GPG268**
- **Radon gas control**
- **SAP 2005 listing**
- **Fire Damper and Diffuser for 3-storey accommodation available**
  The diffuser is manufactured from aluminium and powder coated to an off white finish (RAL 9003).
  Code: Drimaster-3S.
- **Warranty**
  Drimaster has a 5 year warranty.

  Note: to meet optimum design criteria contact Nuaire applications team on 02920 858200.

Typical Installation



ECODRI Heater.



Ceiling diffuser.

Drimaster

The Drimaster provides whole home ventilation using the Positive Input Ventilation principle. Essentially the concept is to introduce fresh, filtered air into the dwelling at a continuous rate, encouraging movement of air from inside to outside. To achieve this, the unit is mounted in the loft space, drawing air through the filters and inputting it, at ceiling level, into the property.

The Drimaster units are fitted with an internal temperature sensor. This sensor continuously monitors the temperature in the loft, boosting the air volume when the loft temperature is above a set level (heat recovery mode).

If the loft temperature becomes excessive the unit will switch to standby mode (no airflow). Once installed, the airflow can be set to suit the house size and, if required, the way it responds to the temperature changes within.

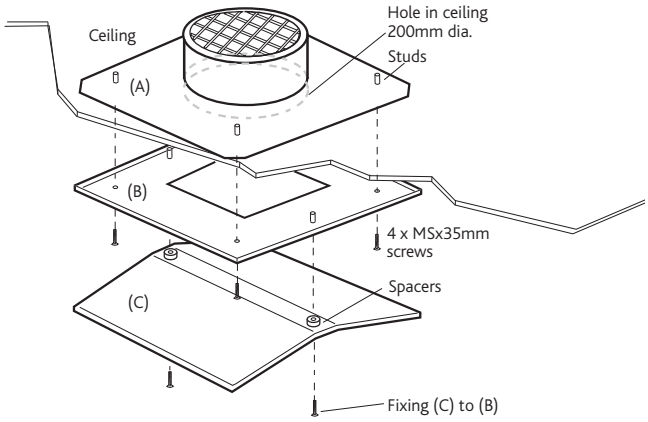
Fire Damper and Diffuser for 3-storey Accommodation

The diffuser is manufactured from aluminium and powder coated to an off white finish (RAL 9003).

The block has a honeycomb centre which provides exceptional strength to weight ratio, making it an outstanding core material for fire and smoke applications. It also has a high resistance to changes in ambient temperature so that the risk of warping is greatly reduced.

Fully certified in accordance with BS476 Part 20, the block is designed to provide up to 83% free area and up to 4 hour fire rating for optimum performance. The damper is ideal for high air movement and suitable for aggressive environments and resistant to moisture. The damper is suitable for internal situations with fast closure in a fire situation.

Where there is a requirement please use the 3-storey diffuser.



Where there is a requirement for maintaining fire rating of the ceiling then the following alternative method of installing the diffuser using a 200mm dia. spigot available from Nuaire and a "Fireblock" is recommended.

Designed to provide 1 hour of fire resistance in accordance with BS476 Part 20 (1987) and ISO 834, this circular "Fireblock" is available to fit snugly inside our standard 200mm dia. spigot. (Part No. 011740).

Wiring

The unit is supplied with a pre-wired power supply. This power supply unit has a metal bracket incorporating fixing holes, which should be used to fit the power supply to a suitable surface e.g. a wooden joist.

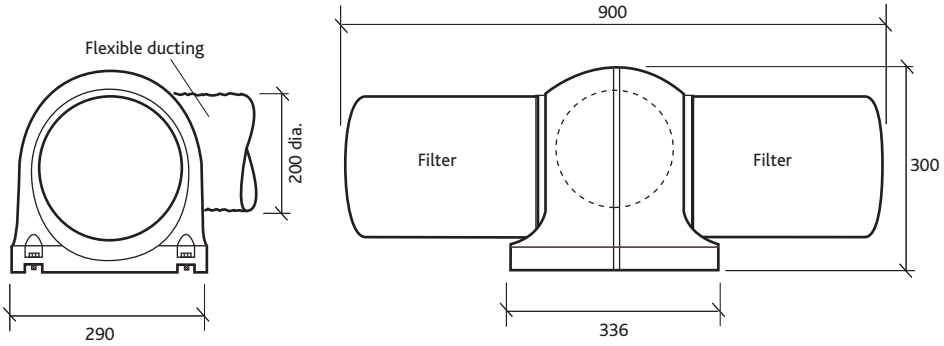
The fan unit is also supplied with a fused spur. The two core mains cable from the power supply should be connected to a fixed wiring installation, via the isolator, via the spur, in accordance with current IEE wiring regulations.

Electrical details:-

Voltage: 240V 1ph 50Hz
Consumption: 1.6W(min) 15.3W(max)
Fuse size: 1 Amp

Dimensions (mm) & weight Drimaster unit

Weight: 5.7kg



DRIMASTER

Consultants Specification

Fan description

Low energy positive input ventilation unit - for use in homes with a loft.

The unit shall be robustly constructed from flame retardant VO rated ABS polymer and the casing shall be of spherical pattern with a flat mounting base.

Flame retardant filters of G4 grade, surface area approx 0.47m^2 (with 5 year typical maintenance period) shall be fitted, which may be removed from the unit without the use of tools. The filters shall be arranged such as to prevent their obstruction in the loft space.

The unit shall incorporate a forward curved centrifugal impeller and high efficiency brushless D.C. motor fitted with sealed for life, self lubricating bearings and locked rotor protection. The unit's average power consumption shall be 0.16 watts per l/s of airflow.

The unit shall be supplied with a length of flexible ducting, and all necessary connectors and fixings.

The unit shall weigh less than 6kg and we recommend that the unit is suspended from the roof structure.

The unit shall be supplied with a purpose designed flame retardant polymer diffuser for efficient, directable air input.The diffuser design shall be optimised for use in areas where smoke detectors are fitted. The unit shall include 5 programmable temperature control strategies, 6 volume control settings and an optional high duty boost setting providing an airflow rate of 70l/s for optimum performance and occupant comfort.

The units "Fixed Temperature Heat Recovery" strategy shall be achieved via a sensor located in the unit and shall improve energy performance accordingly. An internal monitor shall record the unit's operational time.

The unit shall be offered with a 5 year warranty.

For information on reducing radon egress, it is suggested that the details given in Positive pressurisation: a guide to radon remedial measures in existing dwellings may be considered.

Download specification from www.nuairegroup.com/specifications