

CONSULTANTS SPECIFICATION

SPECIFICATION

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 0.47m² (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 DC 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 (without heater element operational).

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

The unit will be supplied with brackets for fitting to joists.

The unit shall be supplied with a purpose designed flame retardant polymer diffuser for efficient, direct able 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.

A heater section incorporating a 500w heating element shall be fitted to the fan unit. It shall be electronically controlled so as to minimise energy use.

A temperature sensor shall be fitted to the outlet of the heater and will control the output of heater in an attempt to maintain the set point. The set point will be adjustable between 2 and 20°C.

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.