

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 0.47m² (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.

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 ceiling.

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 70 l/s for optimum performance and occupant comfort. All control/duty strategies shall be optimised for maximum occupant comfort.

The unit's "Intelligent Heat Recovery" shall be achieved via twin temperature sensors; one sensor integral to the unit to monitor loft temperatures and one sensor located in the living space. The twin sensors shall optimise energy performance accordingly. The sensor located in the living space shall also be capable of providing unit/filter status indication.

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.