

## CONSULTANTS SPECIFICATION

### GENIE-DC BATHROOM FAN

The unit shall be manufactured by Nuaire.

The unit shall incorporate, where necessary, a magnetically latched anti back draft shutter at the fan rear outlet. (except 'X' variants).

The unit shall be surface mountable incorporating a push fit, washable filter with an area of 23,750mm<sup>2</sup> and capable of conversion, if necessary, to semi-recessed format using flange supplied or window mounting format using optional fixing kit.

Unit noise level shall not exceed 35dBA @3m.

The unit shall incorporate an injection moulded forward curved centrifugal impeller.

The impeller shall be directly driven by a low energy, high efficiency 12V DC motor, fitted with sealed, self lubricating ball bearings.

Motors shall have locked rotor protection to prevent overheating in the event of fan failure.

The fan/motor assembly and the unit control assembly shall be capable of replacement as "plug in" modules without disturbing the field wiring.

To prevent over ventilation each unit shall be fitted with fully adjustable speed control. For single speed units one adjustable potentiometer is fitted. For continuously running fans adjustment can be made to both the continuous and boost speeds.

Units shall be fitted with a run-on timer facility (1-60 minutes) ('S' and 'X' variants).

Fan status indication to be visible on front of unit, with flashing LED to show fan failure.

Humidity detection units will vary speed proportionally with humidity level.

The unit complies with new edition (2010) Part F-ventilation building regulations (for System 1) intermittent extract fans and new edition (2010) Part L - conservation of fuel and power.

Meets the minimum fan power requirement of 0.5w/l/s in the 'Domestic Building Services Compliance Guide' (2010 edition).

Can comply with Scottish building regs for intermittent bathroom extract.

Can comply with BRE digest 398 under continuous mechanical extract ventilation (X-variants).

Plastic casing to be manufactured from flame retardant materials. The unit shall be designed for quietest operation to ensure occupant satisfaction.

The unit shall incorporate electrical connections to allow for the unit's "boost" airflow to be triggered by either the switched live signal ('S' variants) or pull-cord/switched live (X, H, & XH units)

The unit shall be supplied with a 5 year warranty.