

SQUIF HIGH TEMPERATURE

Consultants Specification

System specification

The SMOKE EXTRACT fan Unit shall be configured and arranged as detailed on the drawings and in accordance with the schedule of equipment and shall be of the SQUIF type as manufactured by Nuaire. The units shall be manufactured in heavy gauge Aluzinc corrosion resistant steel. The general construction is to class A leakage.

The fan impeller and motor shall be selected to provide the most energy efficient solution conforming to part L regulations and shall be direct drive with EFF2 high efficiency motors to BS5000 as standard.

The fan impeller shall be a high efficiency backward curved centrifugal design, manufactured in galvanised steel and the motor shall be positioned outside the ventilation airflow path. It shall provide excellent in duct and breakout noise levels.

The unit shall be capable of continuous operation at 90°C and a one off operation at up to 400°C for a period of 2 hrs certified to EN12101-3. The unit has been independently tested for high temperature operation by BSRIA and certified by BSI. This shall be achieved using a standard non temperature rated motor. The unit is suitable for non smoke reservoir applications.

A two speed version of the unit to be provided where specified and controlled in accordance with the specification and manufacturers recommendations.

The unit shall be supplied with all necessary ancillaries as recommended by the manufacturer and in accordance with the equipment schedule.

The contractor shall allow for all necessary ductwork transformations to and from the fan unit and any associated components in accordance with the manufacturers recommendations, DW144 and general good practice.

The unit and ancillaries shall be supplied with a 3 year warranty.

The unit shall be of the SQUIF type as manufactured by Nuaire Ltd.