CONSULTANTS SPECIFICATION

SYSTEM SPECIFICATION

The ventilation 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 heavy gauge Aluzinc corrosion resistant steel.

The general construction is to class A leakage.

FAN SPECIFICATION

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 IE2 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.

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.

Run and standby fan assemblies to incorporate fan impeller and motors selected to provide the most energy efficient solution conforming to part L regulations and shall be direct with IE2 high efficiency motors to EN60034-30 as standard, belt or direct drive with EN60034-30 motors fitted with "hall effect" air flow failure monitoring, units suitable for operation in ambient temperatures of 40°C.

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, DW 144 and general good practice.
The unit and ancillaries shall be of the SQFT type as manufactured by Nuaire Ltd.

CONTROL

Auto change over and emergency operation controlled by others.

All equipment shall be as manufactured by Nuaire Ltd.