

## CONSULTANTS SPECIFICATION

### FAN SPECIFICATION

The extract fans shall be as indicated on the drawings and shall be in accordance with the particular fan schedule in this specification. The vitiated air shall be extracted from each area as shown. All necessary fittings and ancillaries shall be allowed for by the mechanical sub contractor.

The unit shall be provided with a wall mounting kit comprising an external weather louvre, backdraught shutter and mounting/wall sleeve.

The ventilation fan shall be of the EZPLATE type axial flow fan as manufactured by Nuaire Ltd. The fan mounting plate shall be manufactured in a one-piece pressed steel construction for rigidity and is polyester powder coated. The case shall be fitted with an external terminal box to IP54.

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 external rotor motors for long life and trouble-free operation to BS5000 as standard with IP54 (IP44 315 to 450mm) enclosures and class F insulation in accordance with BS4999 part 20. They shall have sealed for life ball bearings. Motors shall be pre-wired to an external electrical terminal box through flexible conduit to IP54 and shall be fitted with Heatseeker' thermal overload protection.

The units shall be suitable for operation in ambient temperatures up to 55°C. The impeller blades shall be of special sickle blade or aero-foil section giving excellent performance and low noise characteristic.

Fan sizes 315 to 450 use advanced design pressed steel blades of sickle blade design. All other sizes use die-cast aluminium blades with high efficiency aerofoil sections. Fans up to 710mm diameter inclusive are fitted with inlet finger guard to BS848 part 5. Finger guards for other sizes are available as an optional ancillary. All units can be installed at any angle.

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

### CONTROL OPTION

The unit shall be provided with a standard speed control or starter in accordance with the manufacturers recommendations.

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

All equipment shall be as manufactured by Nuaire Ltd.