



## Axial Fans/Plate Fans Airbeam

### 1.1 General

A. Provide a plate axial extract fan unit to meet the performance and configuration as indicated in the schedule and detail drawings. The extract fan unit shall be certified to AMCA 210 and shall be of the Airbeam axial fan type as manufactured by VES Andover Ltd a company accredited with BS EN ISO 9001:2008.

### 1.2 Unit Construction

A. Where specified the unit shall be provided as a pre-assembled unit comprising of an external weatherproof cowl/louvre, backdraught shutters & wall mounting case.

B. Access for maintenance shall be via removal of the fan bulkhead. Condensation drain holes are provided as standard.

C. The Airbeam may also be supplied as a stand-alone unit comprising of pressed steel mounting plate, impellor, motor & guard. Requirement as indicated in the schedule and detail drawings.

D. All Airbeam fans are supplied finished to RAL9005 (black)

E. External casework, comprising of weather cowl/louvre & mounting box shall be powdercoated as standard Signal grey to RAL7004. Colour to be in accordance with specification.

F. The pre-assembled unit shall be designed for wall mounting in a lined wall cutout.

G. The stand-alone Plate Axial Fan shall be supplied on a pre-drilled mounting plate to be fitted by the mechanical contractor as indicated on the schedule and detail drawings.

### 1.3. Fan Impeller

A. The fan shall be of aluminium blade construction for rigidity and long life. The impeller shall be statically and dynamically balanced to UNI ISO 1940. The fan shall be mated with an aerodynamic steel bell mouth wall plate for high efficiency and low noise generation.

### 1.4. Motor

A. The unit shall be provided with an external rotor motor to insulation class F, IP54 environmental protection rating & shall be supplied with thermal protection cutout as standard.

B. Motors shall be pre-wired to a die cast aluminium terminal box.

### 1.4 Operation Environment

A. The unit shall be designed to operate in ambient temperatures from -30°C up to 70°C, and can run continuously at up to 100% humidity level.

### 1.5 Controls

A. The plate axial shall be designed to be fully compatible with speed control systems with a range of electronic and transformer speed controllers for single phase units and a fully electronic three phase speed controllers available.

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