



## Axial Plate Fans Plate Axial

### 1.1 General

A. Provide a ventilation plate axial fan unit to meet the performance and configuration as indicated in the schedule and detail drawings. The unit shall be tested to BS848 and shall be of the plate axial fan type as manufactured by VES Andover Ltd a company accredited with BS EN ISO 9001:2008. Plate axial fan performance is certified to AMCA 210.

### 1.2 Unit Construction

A. The fan shall be provided pre-assembled comprising an aluminium bladed impeller, external rotor motor, steel wire guard & steel mounting plate.

B. The fan shall be supplied on a pre-drilled mounting plate.

C. The plate & guard shall be supplied finished black to RAL9005.

### 1.3. Fan Impeller

A. The fan shall be constructed with an aluminum bladed axial impeller, statically and dynamically balanced to ISO 1940.

B. The fan shall be mated with an aerodynamic steel bell mouth mounting plate.

C. The fan impeller shall be finished black to RAL9005.

### 1.4. Motor

A. The unit is provided with an external rotor motor to insulation class F, IP54 environmental protection rating & comes complete with thermal protection cutout as standard. Motors are pre-wired to a die cast aluminium terminal box.

### 1.4 Operation Environment

A. The unit is 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 unit shall be compatible with speed control systems, and shall be suitable for use with electronic and transformer speed controllers for single-phase units and fully electronic three phase speed controllers.

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