



## Wall Fans/Ceiling Fans Breeze

### 1.1. General

A. Provide a centrifugal wall fan unit to meet the performance and configuration as indicated in the schedule and detail drawings. The wall fan unit shall be tested to BS848 and shall be of the Breeze centrifugal fan type as manufactured by VES Andover Ltd a company accredited with BS EN ISO 9001:2008.

### 1.2. Unit Construction

A. The unit shall be provided pre-assembled comprising of a single skinned galvanised sheet steel case, centrifugal scroll fan with direct drive motor, wall louvre with birdmesh screen and removable room louvre or flanged spigot as indicated in the schedule and detail drawings.

B. The external wall louvre shall be fitted with secure tamper-resistant fixings.

C. The unit shall be fitted with flame retardant acoustic lining as standard to ensure thermal insulation and reduced noise transmission.

D. The unit designed for supply air shall be fitted with a G4 pleated panel filter as standard. Filter to be in accordance with schedule and detail drawings.

E. Access for maintenance shall be via removal of the wall louvre.

F. The unit casework, wall louvre & room louvre/spigot shall be powdercoated as standard Signal grey to RAL7004. Colour to be in accordance with schedule.

G. The unit shall be designed for mounting in a wall cutout, incorporating the use of a supplied flashing angle as indicated in the detail drawings.

### 1.3. Fan

A. The fan impellor shall be of galvanised steel forward curved blade construction for rigidity and long life. The impeller shall be statically and dynamically balanced to VDE2060 G2.5 for smooth running & extended life.

B. The fan impellor shall be mated with an aerodynamic fan scroll for high efficiency and low noise generation.

C. The fan impellor is supplied as standard in natural galvanised finish. The fan scroll shall be supplied epoxy painted black to RAL9005.

### 1.4. Motor

A. The unit shall be provided with a fan incorporating an external rotor motor to insulation class F, IP44 environmental protection rating & shall be supplied with thermal protection cutout as standard.

B. The motor & attached fan impellor shall be fully AV isolated from the fan scroll, ensuring optimal mechanical isolation & maximum possible noise reduction.



## 1.5. Operation Environment

A. The unit shall be designed to operate in ambient temperatures from -20°C up to 50°C, and can run continuously at up to 80% humidity level.

## 1.6. Controls

A. The unit shall be supplied with a 1m pre-wired flying lead to facilitate on-site installation.

B. The unit shall be designed to be fully compatible with speed control systems designed to operate from a 0-10v BMS i.e Air Quality or Temperature sensor according to schedule.

## 1.7 Silencers

A. The unit shall be fully compatible with a standard range of spigot mounted silencers and attenuating inlet plenums. The silencers/plenums shall be suitable for direct mounting to the unit.

B. The silencer shall be a rigidly constructed single skinned galvanised sheet steel case lining incorporating internal splitting vanes lined with resin bonded mineral wool.

C. The silencer casework shall be provided naturally finished in high quality galvanised steel as standard. Colour to be in accordance with schedule.

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