

## Extract Fans T-LINE 90

### 1.1 General

- A. Provide a ventilation 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 T Line 90 high performance fan type as manufactured by VES Andover Ltd a company covered by BS EN ISO 9001:2008.

### 1.2 Unit construction

- A. The casework shall be rigidly constructed from heavy gauge galvanised steel and use a high quality non-leakage gasket on the access doors.
- B. Access doors shall be provided for the purpose of maintenance. Suitable access shall be provided adjacent to the unit for maintenance.
- C. Weatherproof units shall be supplied with a powder coat finish. Colour to be in accordance with specification.
- D. Weatherproof units shall be fitted with motor weather guard to prevent water ingress as manufactured by VES Andover Ltd.
- E. The unit shall be supplied with Lifting eyes for safe handling. Lifting eyes will be manufactured in accordance with DIN 580 and conform to equipment safety standard BS EN60950-1:2006.
- F. The ventilation unit shall be supplied with connections to directly fit to a 30mm ductwork system.

### 1.3 Impeller and Motor

- A. The impeller and motor shall be selected to provide a low energy solution and conform to building regulations part L.
- B. The impeller shall be a high efficiency centrifugal backward curved design and shall be of a fully welded steel construction.
- C. The impeller shall be balanced to DIN ISO 14694.
- D. The motor shall be fitted external to the airflow with the options of either IE1 high efficiency or IE2 improved high efficiency class F, IP55 motors in accordance to schedule.
- E. The motor shall be manufactured to IEC60034.
- F. The ventilation fan unit is suitable for continuous running at 90oC.
- G. The motor shall be fitted with Plug connection for ease of maintenance and shall be connected to a local isolator as standard.

### 1.4 Ancillaries

- A. The ventilation unit and ancillaries shall be of the T Line 90 type as manufactured by VES Andover Ltd.

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