

## Product Specification

### T-Line 120

#### 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 120 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 120 °C.
- G. The motor shall be fitted with Plug connection for ease of maintenance.

#### 1.4 Ancillaries

- A. The ventilation unit and ancillaries shall be of the T Line 120 type as manufactured by VES Andover Ltd.

#### 1.5 Controls

- A. The unit shall be supplied as standard pre-wired to an external isolator.
- B. BlueSense controls combine pre-wired factory fitted and tested differential pressure and air volume control module, energy efficient advanced application speed controller and temperature, humidity or air quality sensor; providing effective and efficient control of the ventilation system as supplied by VES.
- C. If the differential pressure and air volume control module is indicated within the schedule the unit shall be supplied with the module factory fitted and tested.
- D. If speed control is indicated in the schedule the unit shall be supplied with a loose speed controller for remote mounting.
- E. The unit shall be fully compatible with a standard range of sensor options to effectively operate the ventilation system as supplied by VES. The sensors shall be fully compatible with the V65 speed controller. Sensor options include; High Temperature Duct Sensor, Room/Duct Humidity Sensor, Room/Duct Air Quality Sensor.

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