Duct Mounted Electric Heater
Heatline

1.1 General

A. Provide a duct mounted electric heater unit to meet the performance and configuration as indicated in the schedule and detail drawings of the Heatline type as manufactured by VES Andover Ltd a company covered by BS EN ISO 9001:2008.

1.2 Unit Construction

A. The unit shall be provided pre-assembled comprising of a rigidly constructed single skinned galvanised sheet steel case, electric element heater battery, and integrated control system.

B. Square spigots shall be fitted with 30mm mez flanges as indicated in the schedule and detail drawings.

C. Circular spigots shall be fitted with rubber gasket seals as indicated in the schedule and detail drawings.

D. The unit casework shall incorporate high quality leak resistant neoprene gaskets on service doors and panels.

E. Access for maintenance shall be via a removable controls package & heater element assembly.

F. Plantroom unit casework & spigots shall be provided naturally finished in high quality galvanised steel.

G. Weatherproof units shall be supplied powdercoated signal gray RAL7004 as standard. Alternative colour according to schedule.

H. Weatherproof units shall be supplied with a weather lid.

I. The unit shall be designed for duct mounting.

1.3. Heater Battery

A. The unit shall be fitted with electric element heating as indicated in the schedule and detail drawings.

B. The electric heater battery shall be suitable for single or three-phase supply with thyristor control as indicated in the schedule and detail drawings.

C. The electric heater battery shall consist of a number of elements sized to suit the steps and phases as indicated in the schedule and detail drawings. The elements shall consist of a tubular incolloy shroud containing compressed magnesium oxide powder packed around a Nickel Chromium resistance wire. The elements shall be evenly spread across the open area of the duct.

D. Where multiple elements are required to achieve the steps and phases as indicated in the schedule, elements shall be linked by copper bus bar or terminated with electrical connectors.

E. The electric heater battery shall be fitted as standard with a 130 °C non-adjustable thermal safety cutout, with manual reset.

F. All electric heaters shall be 1500V flash tested, and resistance tested for correct component assembly. Test certificates shall be available on request.

1.4. Controls

A. The unit shall be supplied with a fitted controls package as standard.

B. The controls package shall include as standard volt-free fan run & trip indication, 1 or 3 phase thyristor heat control, and fan control up to 4A 230V @ 50Hz.

C. The controls package shall include as standard a lockable door isolator.

D. The controls package shall include as standard an independent safety circuit, including thermal and airflow pressure safety cut out switches.

E. The controls package shall be available with an optional LCD room control unit or inputs responding to 0-10Vdc control signal from remote source to control temperature.

F. The room control unit shall include as standard a built-in room sensor, temperature adjustment, on/off/auto control, time clock setup & fan run-on timer adjustment, fault display, commissioning & control parameters and a tamper proof case design with PIN code access.

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