Stratos Air Heater Box

Installation instructions

Application:

The Stratos-Air Heater Box (SAHB) is intended for use in applications where the sampled air temperature is expected to be below that of the chosen Stratos-HSSD aspirating smoke detector.

Location:

The SAHB should be positioned in accordance with the recommendations outlined within the “Cold Store Application Guide”. The sampling pipe work should enter the rear of the SAHB using the appropriate number of inlet ports (4 provided) immediately after exiting the cold area. The 2 pipes exiting the base of the SAHB then enter the detector. To allow for the pipe work transition from the SAHB to the detector adequate space should be allowed for 2 x 45^{o} bends per pipe as shown on page 2 of this document.

Principle of operation:

The sampled air is drawn through a network of sampling pipes (max 4 per SAHB, depending on detector used) into the air heater box by the detector aspirator. The air is then drawn over the internal heating element. The element is controlled by a thermostat, which limits the maximum air temperature to 50^{o}C. The heated air then passes through to the detector via the two outlet ports at the base of the SAHB.

Installation:

Before proceeding with installation those inlet and outlet ports not being used should be plugged using the bungs provided. To simplify mechanical installation a template has been provided on page 3 of this document.

A suitable 240VAC (3A) fused supply must be provided, the cable entry for the supply is located at the base of the unit. The supply connection terminals *(fig 1)* are accessed by removing the 4 posidrive-head screws on the front cover plate.

Fig 1. Supply connection terminals

Important: *In order to avoid flow faults from being generated the SAHB should be switched on approximately 15 minutes before the detector, allowing the unit to pre-heat. The exhausted air may be moisture laden, upon re-entering the cold area condensation may form. Suitable precautions should be taken to ensure this condensate does not represent a safety hazard and / or does not obstruct the exhaust.*

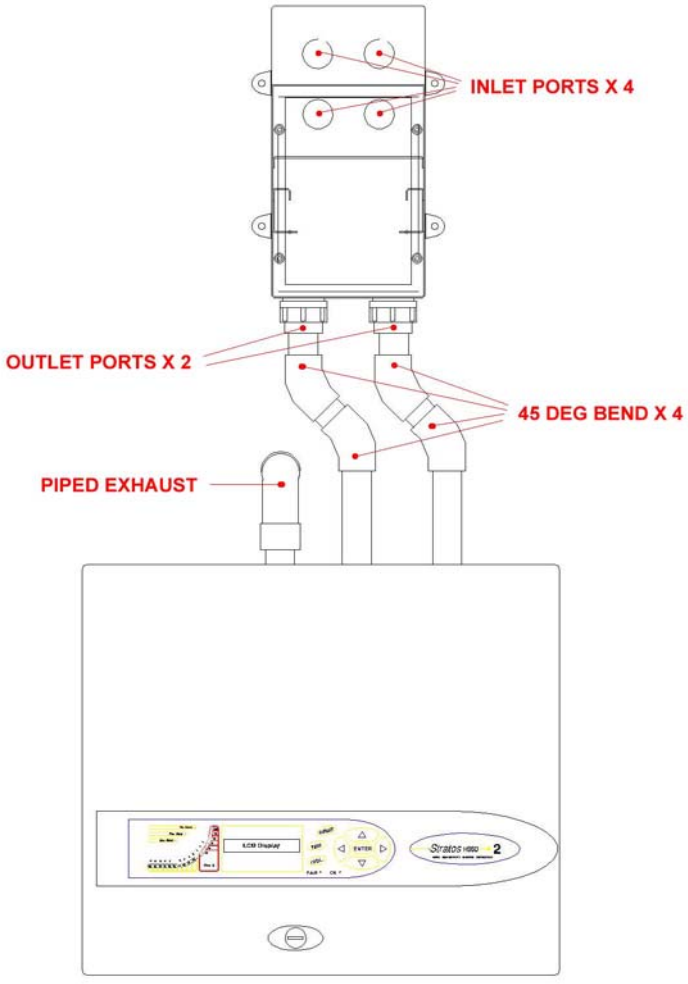

Fig 2. Typical Installation Format

STRATOS-AIR HEATER BOX TEMPLATE