



R&D PRESSURE STABILISER INSTALLATION INSTRUCTIONS

EBS PRESSURE STABILISERS / MODE 5 FIRE DAMPERS

WARNING

The R&D pressure stabiliser is a precision instrument. Care must be taken in handling and storage.

INSTALLATION

It is strongly recommended that the pressure stabilisers units are not installed until the majority of the building and decorative works are complete. The aperture into which the stabiliser is installed should be lined with a timber frame or a similar material to enable the stabiliser to be screw fixed into place.



Figure 1. Image showing the front face of the pressure stabiliser.

STEP 1

Identify the stabiliser to be installed. Each stabiliser is individually packaged, but there may be more than one stabiliser per packing crate. The stabiliser packing will be marked with its unique reference number. An additional identification label is attached to the stabiliser body located behind the top flange.

STEP 2

Carefully remove the stabiliser packaging cross checking its reference number to the builder's drawings.

STEP 3

Remove the egg crate grill and its angle support frame., then remove the loose fitting rear support flange.

STEP 4

Install the stabiliser / fire damper unit in the centre of the aperture leaving equal spaces around the top, bottom and sides. Ensure that the serial number label is situated at the bottom right hand side of the stabiliser. This label also shows the direction of the air flow. **The stabiliser must be installed with its front in the room of the highest pressure, with the air flow in the direction of the arrow. See Figure 1 above.**

The stabiliser / fire damper unit must be installed squarely in both the vertical and horizontal directions. Screw fix the unit to the wall through the front flange

important: All gaps between the stabiliser casing and the wall must be completely filled with a fire resistant material, approved by the local fire officer and / or regulations. Intumescent paste should be applied between the wall and the stabiliser case flange and the rear support flange.

STEP 5

Install the rear support flange. This is inserted onto the casing from the other side of the wall. The flange is then screw fixed in a similar manner to the stabiliser. Note: depending on wall thickness the rear flange can be installed with the angle facing into or away from the wall. Access to the motor drive compartment should not be impeded. Please note that rear flanges are individually matched to each stabiliser and should not be interchanged.

STEP 6

Insert the motor and limit switch cable through the 20mm holes located at the top of the casing, ensuring that the grommets are correctly located in the holes. Please refer to the Actionair instruction manual for cable termination details.

STEP 7

Replace the egg crate grill and its support flange.

ACCESS TO THE MOTOR CASSETTE

STEP 1

Remove the egg crate grill and its support flange, as detailed above.

STEP 2

Remove the 3No M5 pan head fixing screws located behind the egg crate grill. Remove the 3No M5 screws from the outside of the cover.

STEP 3

Remove the side cover plate giving access to the motor cassette and thermal trip switch. See Figure 2.

STEP 4

Access to this compartment allows the motor cassette to be removed, manual operation of the thermal trip and manual operation of the drive mechanism. Please note that the 5mm Allan key required to manually operate the drive is attached to the cable behind the cover.

IN CASE OF DIFFICULTY

Please contact R&D Ventilation Systems quoting the serial number of the stabiliser, which is printed on the airflow direction label:

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Figure 2. Image showing the motor cassette with cover removed