



R&D PRESSURE STABILISER INSTALLATION INSTRUCTIONS

EBS PRESSURE STABILISERS – ELECTRO / THERMAL RELEASE 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 1a. Image showing the front face of the pressure stabiliser / fire damper unit.



Figure 1b. Image showing the electromagnetic release mechanism.

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. Carefully remove the stabiliser packaging cross checking its reference number to the builder's drawings. Each electro magnetically released fire damper unit is supplied with an individual release mechanism as shown in Figure 1b.

STEP 2

Remove the loose fitting rear support flange and egg crate grill from the back of the stabiliser.

STEP 3

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 airflow. **The stabiliser must be installed with its front in the room of the highest pressure, with the airflow in the direction of the arrow.**

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 4

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. Please note that rear flanges are individually matched to each stabiliser and should not be interchanged.

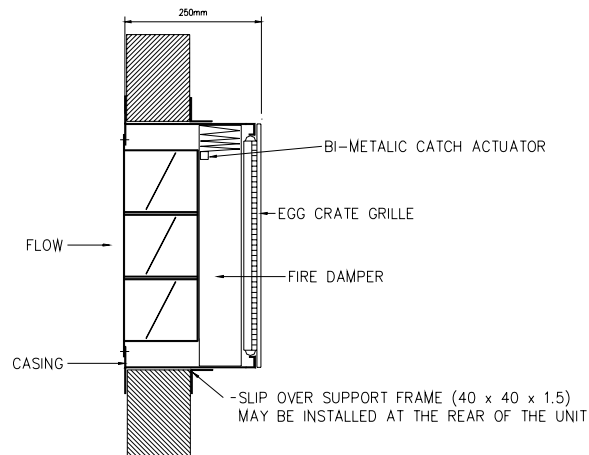


Figure 2. Cross sectional end view of pressure stabiliser & fire damper.

STEP 5

Install the release mechanism in a suitable location. The release cable can enter the fire damper casing on either the right or left hand side. The stuffing gland supplied should be used to protect the release cable from damage where it enters the enclosure. Follow the attached Actionair instructions to connect the cable to the fire damper mechanism. **Ensure that the release mechanism is of the correct voltage before terminating the supply cable.**

STEP 6

Apply a bead of white silicon sealant around the edges of the case flange and wall and also the rear support flange and the wall. Also apply a bead of sealant around the joint of the stabiliser body and fire damper case.

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:

R&D Ventilation Systems
Industrial Estate
Neath Abbey
Neath
UK
SA10 7DR

Tel: +44 (0) 1792 813231
Fax: +44 (0) 1792 321816
Email mail@rdvent.com
Web www.rdvent.com