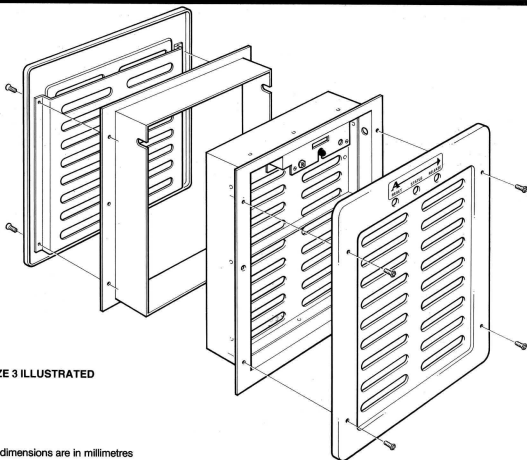


actionair trans/shield

stainless steel sliding plate fire and smoke dampers

INSTALLATION AND OPERATING INSTRUCTIONS



SIZE 3 ILLUSTRATED

All dimensions are in millimetres

Damper Size Number	1	2	3	4	5
Cutting Hole Size W x H	160 x 160	310 x 160	310 x 300	450 x 300	450 x 430

General Information

(1) All Dampers are suitable for vertical application, with the passage and transfer of ventilation air in either direction.

(2) All Dampers are supplied with the Sliding Seal Plate in the closed position to prevent damage in transit and the ingress of building dust and dirt on site and during installation; and it is recommended that the Sliding Seal Plate should remain closed until the actual date of

commissioning.

(3) Flanged Backing Sleeves have a sleeve depth of 40mm, a top flange height of 8mm, sides and bottom flange heights of 20mm, and are supplied 3mm, under the cutting hole size.

(4) Damper Assemblies have a depth of 42mm, a top flange height of 8mm, sides and bottom flange heights of 20mm, and are supplied 1mm, under the Flanged Backing Sleeve size for

always fitting within the Sleeve.

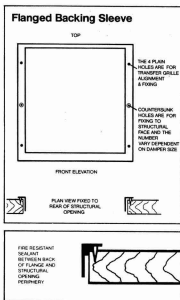
(5) The Cassette regardless of choice of Mode is 140mm wide x 35mm high x 26mm deep.

(6) Transfer Grilles have a top flange height of 45mm, with sides and bottom flange heights of 25mm.

(7) Trans/Shield Dampers are an Actionair Quality Engineered Life Safety Product and should always be fitted and operated in accordance with the instructions provided.

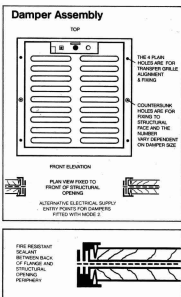
Installation procedure

- (1) Make the structural opening to the actual dimensions of the Cutting Hole Size given for the selected Damper Size Number.
- (2) Locate the Flanged Backing Sleeve with the 8mm flange height at the top into whichever side is deemed to be the rear of the structural opening and when uniformly spaced therein use as template to mark position of all flanged 4mm diameter screw holes.
- (3) The Flanged Backing Sleeve can then be removed and all pilot holes drilled accordingly.
- (4) Relocate the Flanged Backing Sleeve at the same time providing an application of fire resistant sealant between the back of the flange and the structural opening periphery, before screw fixing with the slotted head screws provided to the structure face using all the countersunk flange holes only, as the remaining four side plain holes are for alignment with and fixing through to the structure, of the rear Transfer Grille complete with non vision baffle.



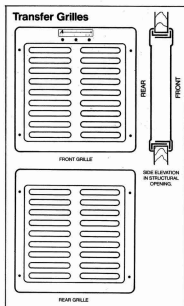
- (5) Locate the Damper Assembly with the Cassette at the top into the opposite front side of the structural opening and inside the Flanged Backing Sleeve and when uniformly spaced therein use as template to mark position of all flanged 4mm diameter screw holes, and note that the two holes in line with the Cassette at each end of both sides of the Damper Assembly are alternative electrical supply entry points for Dampers fitted with Mode 2.

- (6) The Damper Assembly can then be removed and all pilot holes drilled accordingly.
- (7) Relocate the Damper Assembly and if the Damper is fitted with Mode 2, ensure that the electrical power supply is isolated and the wiring is then continued through the appropriate side hole of the Damper Assembly before applying the necessary fire resistant sealant and screw fixing with the slotted head screws provided to the structure face in the same manner as described for the Flanged Backing Sleeve in (4) above.



- (8) If the Damper is fitted with Mode 2 connect the electrical supply wiring to the Cassette terminal block.
- (9) Set the Damper in the open position by engaging a 4mm hexagon allen key in the Cassette Resetting Shaft and turning same in a partial anti-clockwise direction when the Damper should remain in the open position, unless, in the case of Mode 2 operation there is no electrical power supply to the 24 VOLT D.C. Electro Magnet, in which event the Damper will immediately fail-safe closed.
- (10) Release the Damper to the closed position by also using the 4mm hexagon allen key to manually depress the Cassette Release Lever and on closing the Damper disengages within the Cassette a spring loaded Damper Set & Status Pin, the end of which is encapsulated with a distinctive red coloured plastic capping and with an outward movement to a completely exposed position on the Cassette front face provides visual indication of Damper status.

- (11) Once satisfied with the operational testing of the Damper, complete the installation by aligning the side countersunk holes of the rear and front Transfer Grilles with the corresponding side holes in the two non vision baffles (should they have separated from either Grille) and the remaining side flange holes of the Flanged Backing Sleeve and the Damper Assembly respectively and screw fix with the pozi-driv screws provided to either side of the structural opening ensuring that the 45mm flange height of the rear Transfer Grille is at the top and that the three holes in the centre of the 45mm flange height of the top of the front Transfer Grille are in line with and provide access to the functional aspects of the Damper Cassette.



Cassette Interchangeability or Replacement

- (1) Un-screw the four pozi-driv fixing screws of the front Transfer Grille and remove same together with the non vision baffle to expose the Cassette.
- (2) If the Damper is fitted with Mode 2 isolate the electrical power supply before disconnecting the wiring from the Cassette terminal block.
- (3) The Cassette has simple two screw attachment direct to the Damper Static Plate within the Damper Assembly and unscrewing the two slotted head screws enables the Cassette to be withdrawn outward from the Damper Assembly.
- (4) Cassette interchangeability or replacement is achieved through reversing all the foregoing procedure.

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Actionair, South Street, Whitstable, Kent CT5 3DU England
Tel: (01227) 276100 Fax: (01227) 264262 International Code: +441227
Email: sales@actionair.co.uk Website: www.actionair.co.uk

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