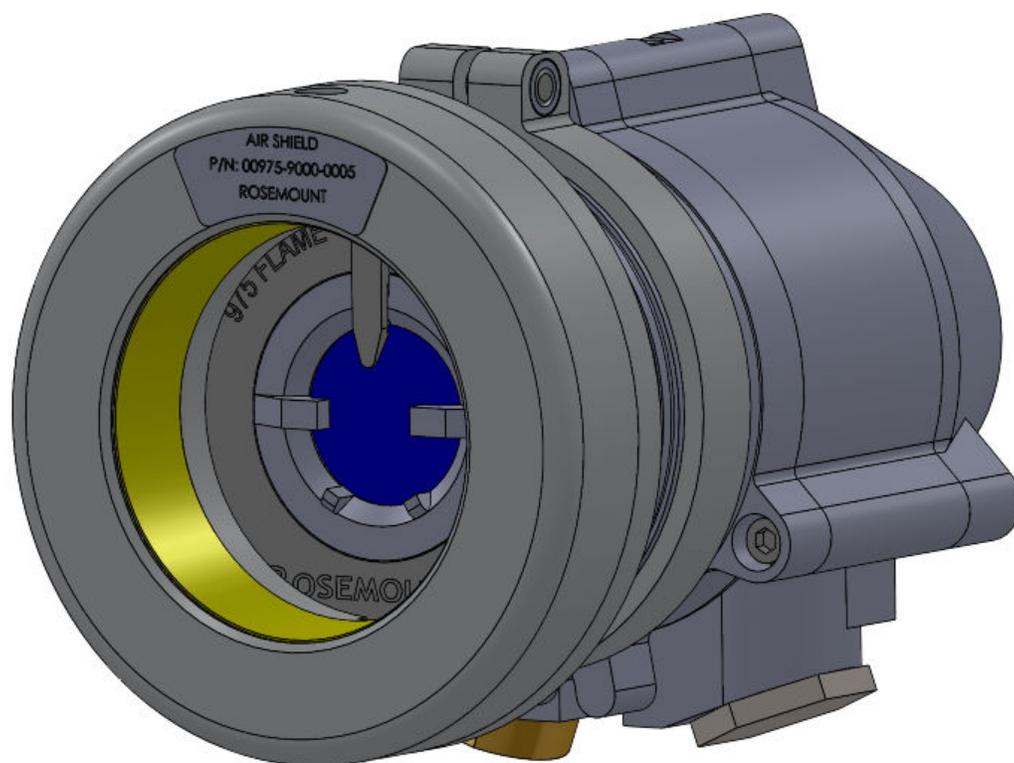


975 Air Shield



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WARNING!

This manual should be read carefully by all individuals who have or will have responsibility for using, maintaining, or servicing the product.

The Detector is not field repairable due to the meticulous alignment and calibration of the sensors and the respective circuits. Do not attempt to modify or repair the internal circuits or change their settings, as this will impair the system's performance and void the Rosemount product warranty.

Warranty

- Limited Warranty.** Subject to the limitations contained in Section 10 (Limitation of Remedy and Liability) herein, Seller warrants that (a) the licensed firmware embodied in the Goods will execute the programming instructions provided by Seller; (b) that the Goods manufactured by Seller will be free from defects in materials or workmanship under normal use and care; and (c) Services will be performed by trained personnel using proper equipment and instrumentation for the particular Service provided. The foregoing warranties will apply until the expiration of the applicable warranty period. Sensors and detectors are warranted against defective parts and workmanship for 24 months from the date of purchase and other electronic assemblies for 36 months from the date of purchase. Products purchased by Seller from a third party for resale to Buyer (**Resale Products**) shall carry only the warranty extended by the original manufacturer. Buyer agrees that Seller has no liability for Resale Products beyond making a reasonable commercial effort to arrange for procurement and shipping of the Resale Products. If Buyer discovers any warranty defects and notifies Seller thereof in writing during the applicable warranty period, Seller shall, at its option, (i) correct any errors that are found by Seller in the firmware or Services; (ii) repair or replace FOB point of manufacture that portion of the Goods found by Seller to be defective; or (iii) refund the purchase price of the defective portion of the Goods/Services. All replacements or repairs necessitated by inadequate maintenance; normal wear and usage; unsuitable power sources or environmental conditions; accident; misuse; improper installation; modification; repair; use of unauthorized replacement parts; storage or handling; or any other cause not the fault of Seller, are not covered by this limited warranty and shall be replaced or repaired at Buyer's sole expense and Seller shall not be obligated to pay any costs or charges incurred by Buyer or any other party except as may be agreed upon in writing in advance by Seller. All costs of dismantling, reinstallation, freight and the time and expenses of Seller's personnel and representatives for site travel and diagnosis under this limited warranty clause shall be borne by Buyer unless accepted in writing by Seller. Goods repaired and parts replaced by Seller during the warranty period shall be in warranty for the remainder of the original warranty period or 90 days, whichever is longer. This limited warranty is the only warranty made by Seller and can be amended only in a writing signed by an authorized representative of Seller. The limited warranty herein ceases to be effective if Buyer fails to operate and use the Goods sold hereunder in a safe and reasonable manner and in accordance with any written instructions from the manufacturers. THE WARRANTIES AND REMEDIES SET FORTH ABOVE ARE EXCLUSIVE. THERE ARE NO REPRESENTATIONS OR WARRANTIES OF ANY KIND, EXPRESS OR IMPLIED, AS TO MERCHANTABILITY, FITNESS FOR PARTICULAR PURPOSE OR ANY OTHER MATTER WITH RESPECT TO ANY OF THE GOODS OR SERVICES.
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Release History

Revision	Date	Revision History
A	June 2016	First release

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1 General Description

This document describes the installation instructions for the Air Shield P/N: 00975-9000-0005.

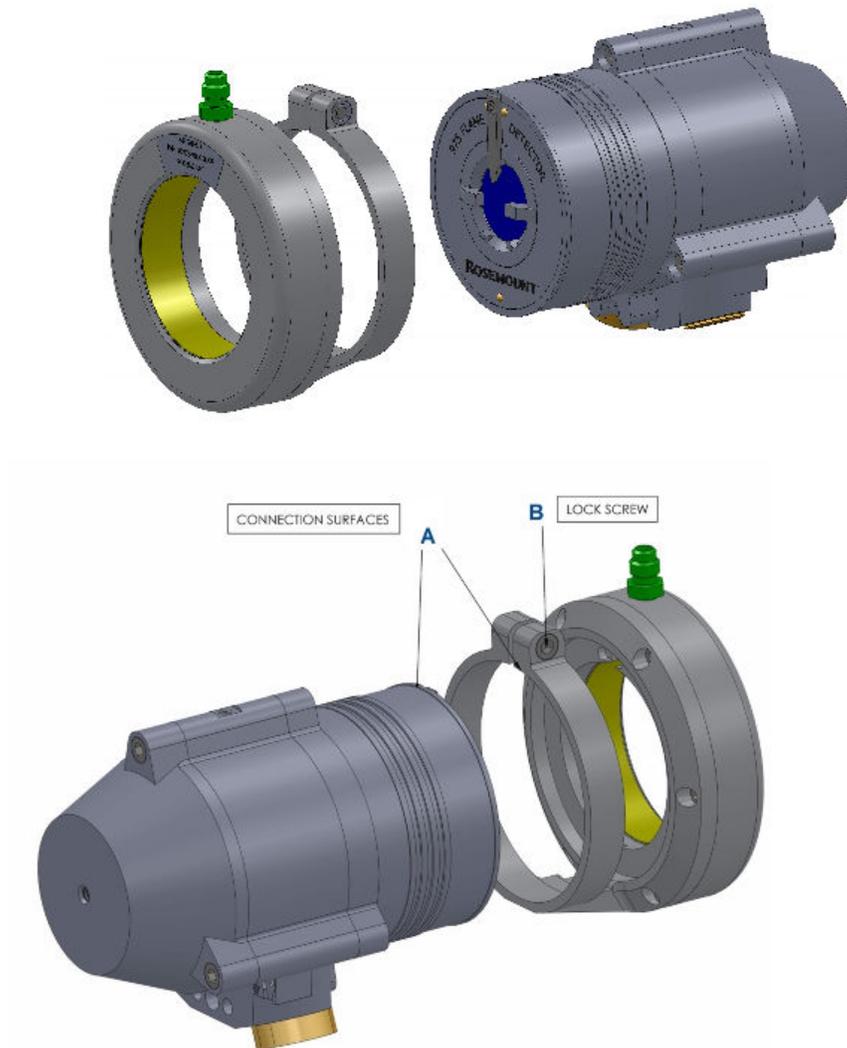
The Air Shield is suitable for use with the Rosemount 975 Flame Detectors (975MR, 975HR, 975UF, and 975UR) for both the aluminum and stainless steel enclosures.

Optical flame detectors are often used in highly polluted or dirty areas that force maintenance personnel to access the detector frequently to clean its optical window. The special Air Shield, developed for Rosemount 975 Flame Detectors, allows their installation under tough environmental conditions, where they may be exposed to oil vapors, sand, dust, and other particulate matter.

2 Installation Instructions

1. Surface preparation (*Figure 2-1*)
 - a. Verify that all connection surfaces (A) are clean.
 - b. Verify that the lock screw (B) is open. The screw is a captive screw.

Figure 2-1: Surface preparation

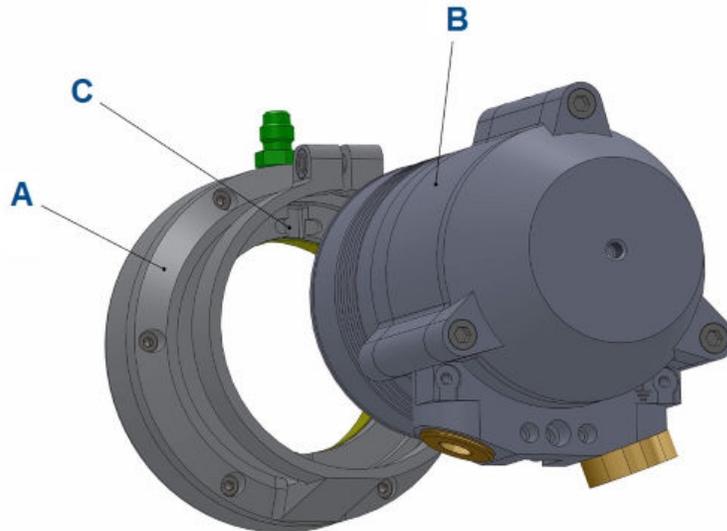


- A. Connection surfaces
B. Lock screw
-

2. Assembly of the Air Shield

- a. Refer to [Figure 2-2](#). Assemble the Air Shield (A) on the detector (B).

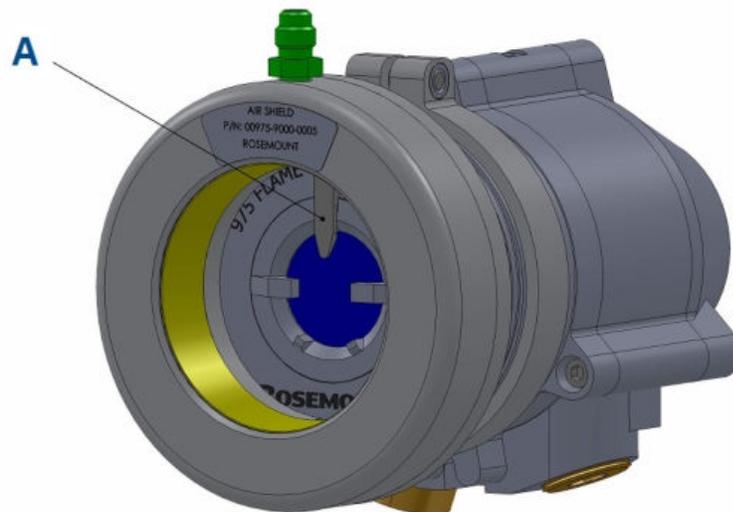
Figure 2-2: Assembly of the Air Shield, rear view



- A. Air Shield
- B. Detector
- C. Groove

- b. Refer to [Figure 2-2](#) and [Figure 2-3](#). Verify that the guard (A in [Figure 2-3](#)) fits to the appropriate groove (C in [Figure 2-2](#)).

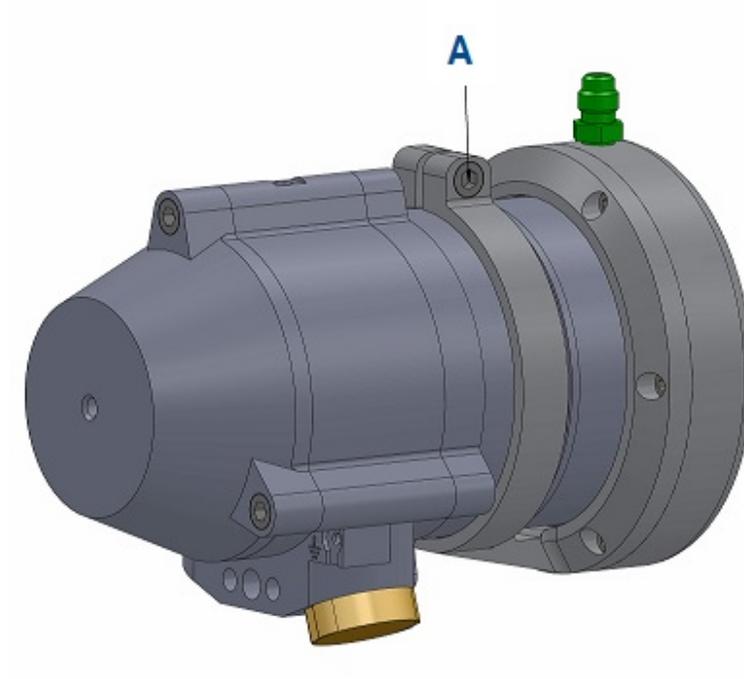
Figure 2-3: Assembly of the Air Shield, front view



- A. Guard

- c. Refer to [Figure 2-4](#). Lock the screw (A).

Figure 2-4: Locking the screw

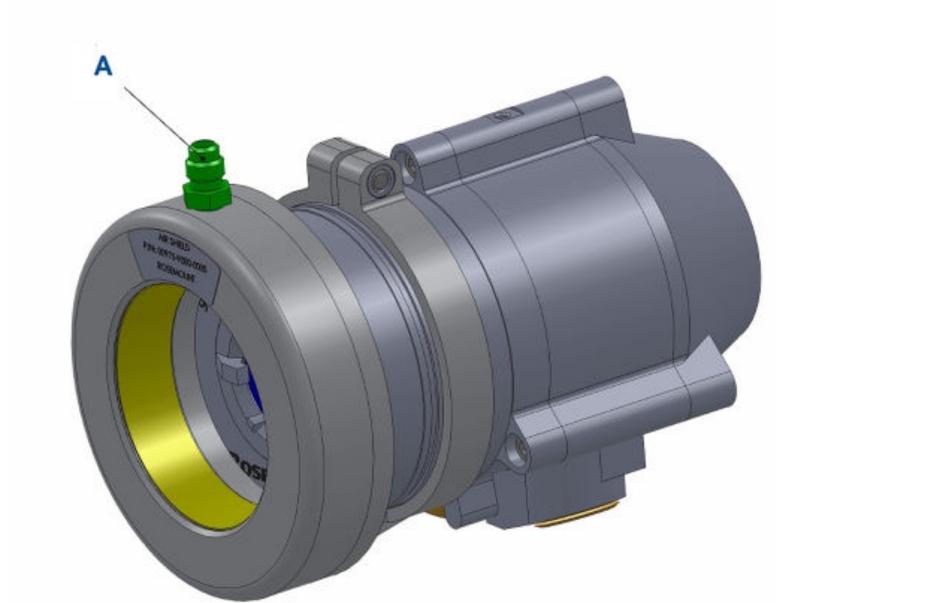


A. Screw

The air shield is now mounted.

- d. Refer to [Figure 2-5](#). Attach the air pressure hose to the quick fit air connection (A).
-

Figure 2-5: Quick fit air connection



A. Quick fit air connection

3 Technical Specifications

Air pressure source: Clean, dry, and oil-free air

Pressure: 2-3 bar(30-45 psi)

Fitting: 7/16 in. - 20 UNF-2A

Operation temperature: -67 °F to 185 °F (-55 °C to 85 °C)

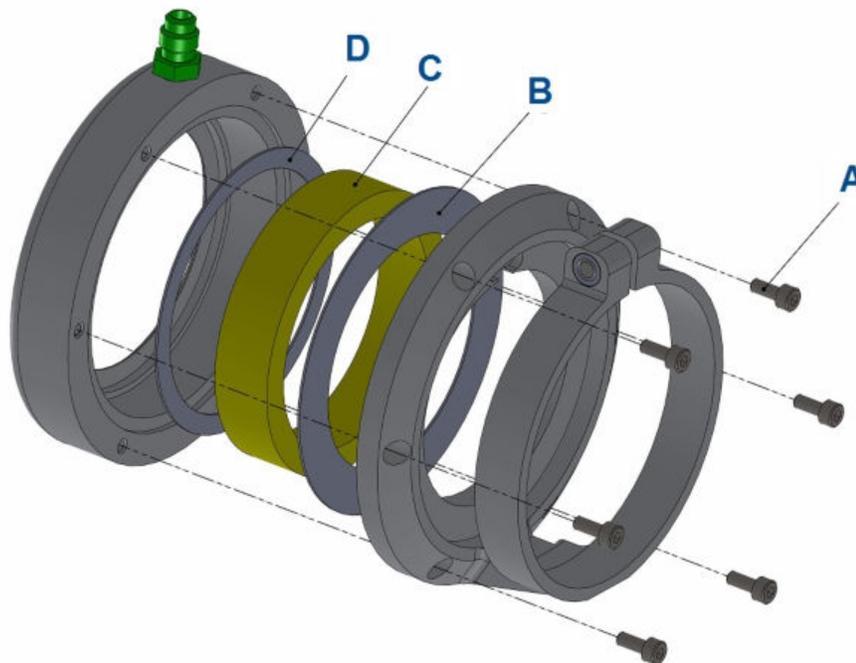
⚠ WARNING!

The temperature of the air supply to the Air Shield should never exceed 140 °F (60 °C).

4 Filter Replacement

1. Remove the six rear screws (Item A - M4 x 10 A4) and open the Air Shield

Figure 4-1: Filter Replacement



- A. Six rear screws
- B. Larger gasket
- C. Filter
- D. Smaller gasket

2. Remove the larger gasket (Item B) and then remove the filter (Item C).
3. Remove the smaller gasket (Item D) and replace it with a new one.
4. Mount the new filter into the Air Shield.
5. Fit the new larger gasket (Item B).
6. Close the Air Shield and lock the screws (Item A).

5 Technical Support

For all technical assistance or support contact:

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