



## OpenAir<sup>®</sup> NEMA Type 4X Weather Shield Kit

### Product Description

NEMA Type 4X Weather Shield Kit for use with GBB, GCA, GDE, GEB, GIB, GLB, GMA, and GQD OpenAir Actuators. This weather shield provides protection against the elements for actuators installed onto dampers in indoor or outdoor installations. The weather shield is easy to install, with all necessary hardware included in the kit.

**NOTE:** This unit is approved for NEMA 4X protection only when used with a water-tight conduit connector(s).

### Contents

- NEMA Type 4X Weather Shield Enclosure Assembly
- NEMA Type 4X Weather Shield Cover
- Cover Retainers (4)
- Anti-rotation Brackets (3)
- Synthetic Grease Packet
- Self-drilling No. 12-14 x 2-1/2" Weather Shield Assembly Mounting Screws (4)
- Mounting Foot/Stand Offs (4)
- No. 6 Mounting Foot Screws (4)
- No. 8 Phillips Head Sheet Metal Screws (2)
- NEMA 4X Shaft Adapter Assembly

### Product Number

ASK75.7U

### Temperature Rating

-25°F to 130°F (-32°C to 55°C)

### Required Tools

- 1/4-inch power nut driver
- No. 2 Phillips Screw Driver
- 10 mm wrench
- Knockout punch

### Expected Installation Time

20 minutes

### Prerequisites

- See the installation instructions that come with the actuator for additional details on the function and wiring of the actuator.
- Obtain appropriate outdoor electrical fittings needed for connection to the 1/2-inch knockout.

### Caution Notation

<b>CAUTION</b>		Equipment damage or loss of data may occur if you do not perform a procedure as specified.
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### Installation

1. Using a conduit knockout punch, make a hole(s) through the weather shield at the preferred conduit location(s).
2. Ensure that the damper is in the desired location for assembly of the un-powered OpenAir<sup>™</sup> actuator being mounted.

**NOTE:** You can mount the Weather Shield Kit in any orientation.



#### CAUTION:

The damper shaft length must be between 2.5" (63.5 mm) Max. and 1.0" (25.4 mm) Min.

3. Assemble NEMA Type 4X Shaft Adapter Assembly to the damper shaft. No special orientation is required. Tighten the 10 mm hex nut to 7.5 ft-lb (10 Nm).

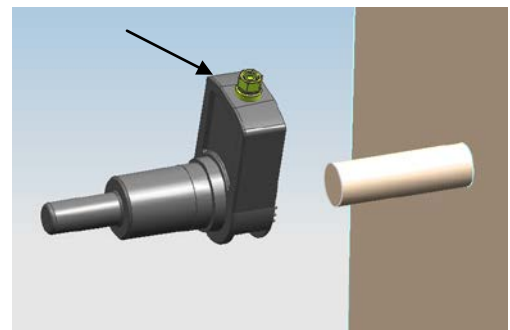
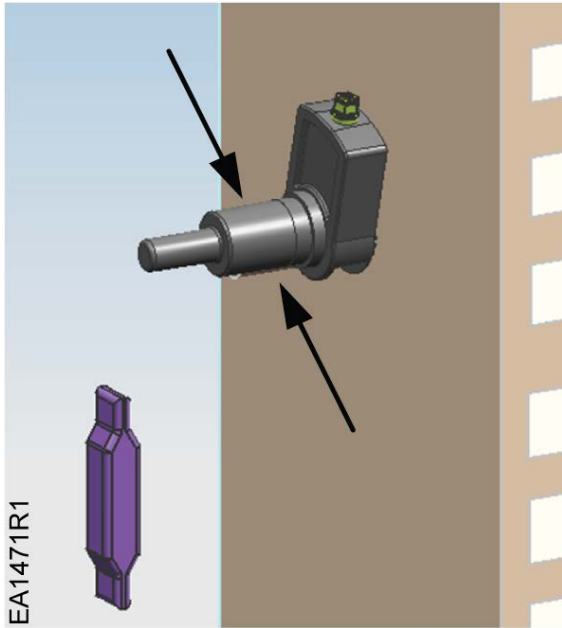


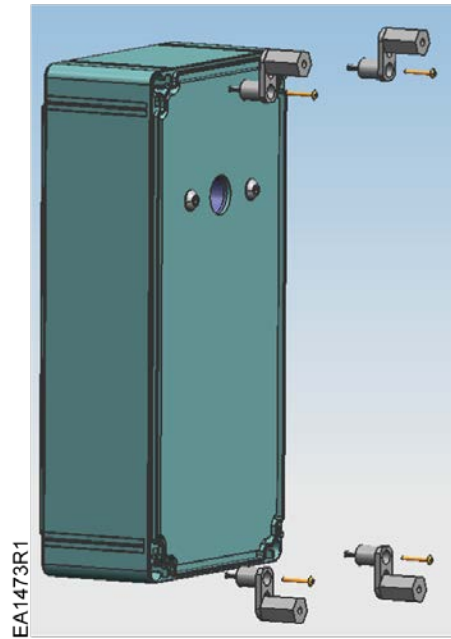
Figure 1. Shaft Adapter Assembly Hex Nut Location.

4. Apply a liberal coating of grease from the Synthetic Grease Packet to the entire surface of the large diameter of the NEMA Type 4X Shaft Adapter Assembly.



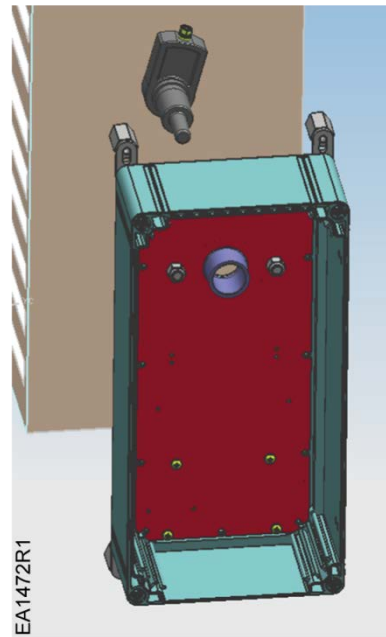
**Figure 2. Grease Application Point.**

5. Assemble the four Mounting Foot/Stand Offs to the Weather Shield Enclosure using the Mounting Foot Screws (provided).



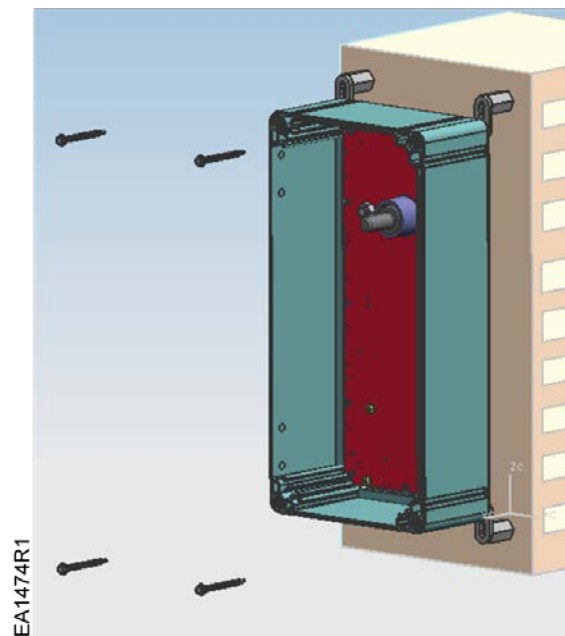
**Figure 3. Mounting Foot/Stand Offs.**

6. Slide the Weather Shield Enclosure Assembly onto the NEMA Type 4X Shaft Adapter.



**Figure 4. Assembly and Adapter.**

7. Attach the Weather Shield Enclosure Assembly to the damper frame or ductwork using four No. 12-14 Self-Drilling Screws (provided).



**Figure 5. Assembly, Mounted.**

8. Three Anti-rotation Brackets are included:
- GDE/GLB/GQD (Narrowest center section/Smallest Anti-rotation Pin)
  - GMA/ GEB
  - GBB/GCA/GIB (Widest center section/Largest Anti-rotation Pin)
- Select the proper bracket for the OpenAir Actuator being mounted in the NEMA Type 4X enclosure.
9. Attach the bracket using the two No. 8 Phillips Head Sheet Metal Screws (provided).

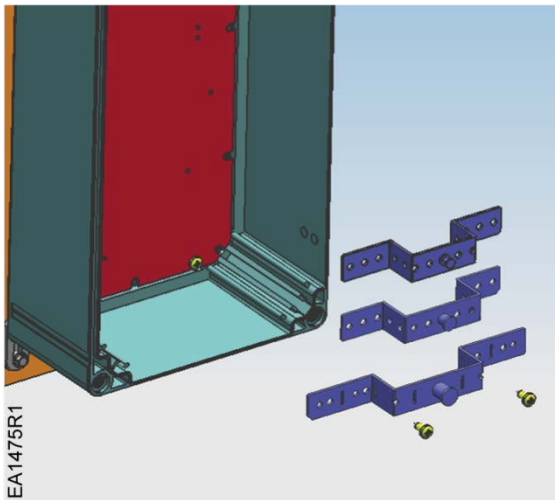


Figure 6. Anti-rotation Brackets.

10. Select the pre-drilled holes in the NEMA Type 4X enclosure backplane for the Anti-rotation Brackets that correspond to the actuator being used.

GDE, GLB

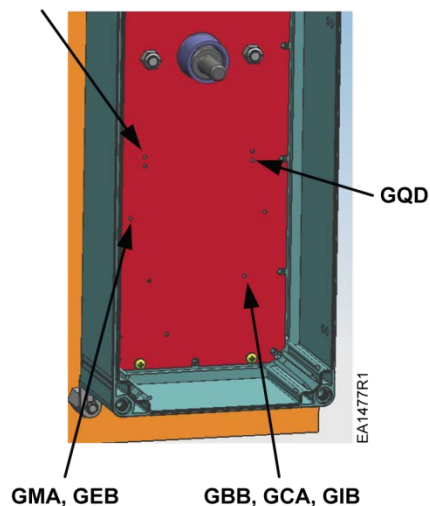


Figure 7. Pre-drilled Bracket Locations.

11. All of the OpenAir Actuators, with the exception of GDE and GLB, have removable

shaft adapters. Assemble the shaft adapter to the back side of the actuator and attach the retaining clip.

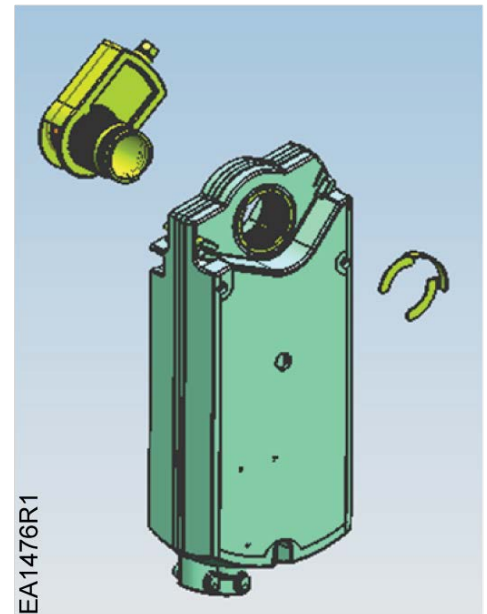


Figure 8. Removable Shaft Adapter and Retaining Clip.

12. Slide the OpenAir Actuator assembly onto the shaft and anti-rotation bracket installed in the NEMA Type 4X Enclosure Assembly. Tighten the hex nut (3 mm, 4 mm, or 10 mm depending on actuator) to 7.5 ft-lb (10 Nm).

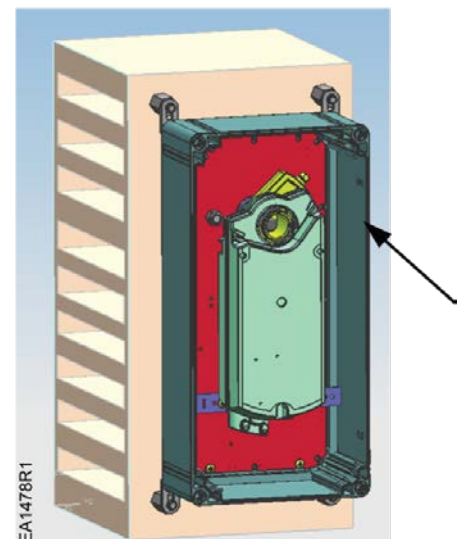
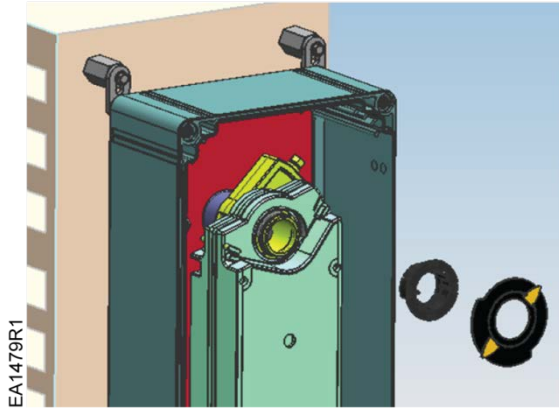


Figure 9. Actuator Installed in Enclosure.

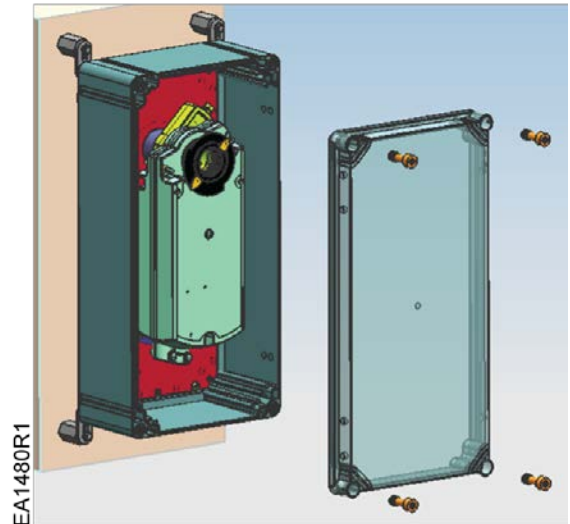
13. Optional: Assemble the adapter and Position Indicator to the end of OpenAir shaft adapter (if applicable).



**Figure 10. Optional Position Indicator.**

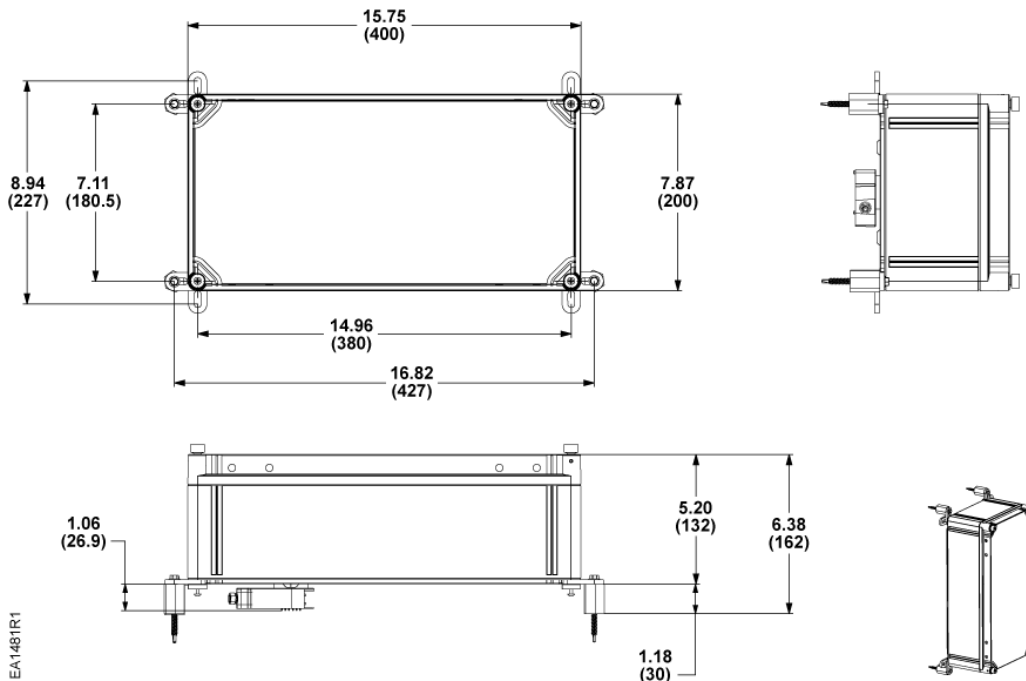
14. Ensure that all wiring is completed and that the damper and actuator are operating properly.

15. Assemble the clear NEMA Type 4X Cover using the (4) cover retainers (supplied).



**Figure 11. NEMA Type 4X Cover.**

The installation is now complete.



**Figure 12. Dimensions in Inches (Millimeters).**

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