

DMPR-KC150 Adjustable Horizontal Blade-to-Blade Bracket

Use the DMPR-KC150 Adjustable Horizontal Blade-to-Blade Bracket to horizontally couple two dampers which operate in the same or opposite (face/bypass) direction. One kit is required for every 24 inches of damper height.

Kit Includes

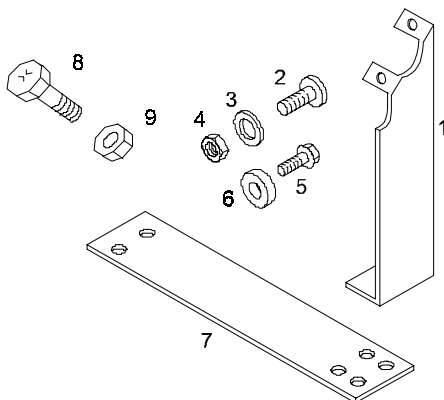


Figure 1: Kit Components

Table 1: Kit Components

Item	Description	Quantity
1	Bracket	2
2	Machine Screw, 1/4-20	4
3	Lock Washer	4
4	Hex Nut, #10, 1/4-20	4
5	#12-24 x 1/2 inch Self-tapping Hex-head Screw	4
6	Modified Spacing Washer	4
7	Horizontal Coupling Bar	1
8	#10-32 x 1-1/4 inch long Hex-head Screw	4
9	#10-32 Hex Nut	4

Tools Required

- screwdriver, flat-blade, 5/16 inch or #12 nut driver
- drill, 3/16 inch (5 mm) drill bit
- wrench, 5/16 and 7/16 inch

Procedure

Note: For a damper operating in a face/bypass application, one of the dampers must be turned around. Couple the panels using a DMPR-KC201 Damper Fastener Kit.

To install the bracket kit, proceed as follows:

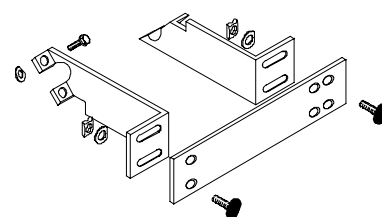


Figure 2: Assembling Kit for Face/Bypass Application

1. Attach the horizontal coupling bar (item 7 in Figure 1) to the brackets (item 1 in Figure 1) using the 1/4 inch machine screws (item 2 in Figure 1), lock washers (item 3 in Figure 1), and hex nuts (item 4 in Figure 1). Do not tighten the screws at this time.

Table 2: Recommended Drive Locations

Damper Height, in.	Blades
24 or less	No. 1 or 3
Greater than 24 but less than 48	Nos. 3 and 5
Greater than 48	Nos. 3, 5, and 7

2. Locate the connecting blade(s) specified in Table 2.

3. Set the kit against the blade(s) and slide the legs until the holes align with the following:

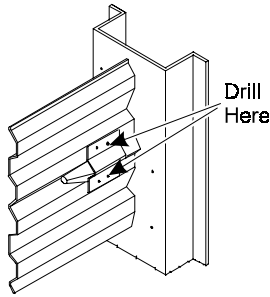


Figure 3: 16-Gauge Blades

- 16-Gauge blades - drill out the first punch marks from the end channel.

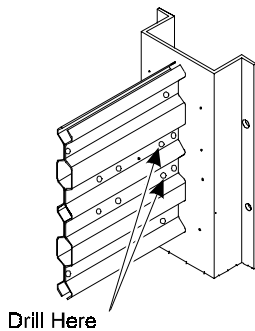


Figure 4: Double-Piece Blades

- Double-piece blades - drill out the second set of nuggets from the end.

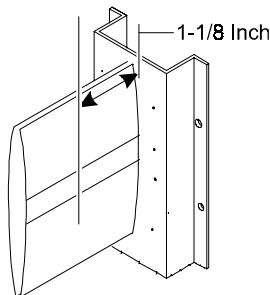


Figure 5: Airfoil Blades

- Airfoil blades - measure 1-1/8 inches from the end channel and drill on the lines etched in the blade.

For application at conditions beyond these specifications, consult the local Johnson Controls representative. Johnson Controls, Inc. shall not be liable for damages resulting from misapplication or misuse of its products.

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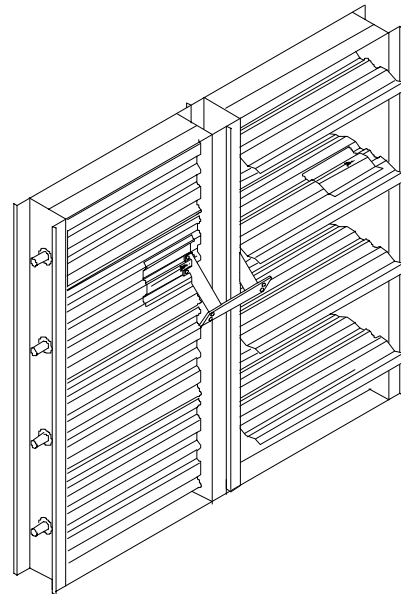


Figure 6: Locating Bracket

4. Position the blades of each damper for the desired operation as shown in Figure 6.
5. Secure the blade arm to the preferred driving blade. Refer to Table 2 for blade arm location.
 - 16-gauge blade: Use the two #12-24 x 1/2 inch hex-head, self-tapping screws (item 5 in Figure 1), and the modified washers (item 6 in Figure 1).
 - Double-piece blade: Use the two #12-24 x 1/2 inch hex-head, self-tapping screws (item 5 in Figure 1).
 - Airfoil blade: Use the two #10-32 x 1-1/4 inch hex-head screws (item 8 in Figure 1) and two #10-32 hex nuts (item 9 in Figure 1).
6. Tighten the machine screws and hex nuts at this time.
7. Stroke the dampers to verify full unobstructed travel.



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