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# SUPPLEMENTAL INSTRUCTIONS

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## Fresh Air Damper with Barometric Exhaust (FAD-BE5) and without Barometric Exhaust (FAD-NE5)



Damper kit includes:

- (1) 543-222 intake blank off plate
- (1) 543-220 exhaust blank off plate (FAD-NE5 only)
- (1) 539-406 FAD assembly
- (1) 539-410 barometric exhaust assembly (FAD-BE5 only)
- (1) 139-413 barometric exhaust partition (FAD-BE5 only)
- (10) 1012-086 screw type AB HXWHD#10-16X1/2
- (1) 7960-818\* supplemental instructions

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BMC, Inc.  
Bryan, Ohio 43506

Manual : 7960-818D  
Supersedes: 7960-818C  
Date: 2-19-20

## Installation

### **WARNING**

**Electrical shock hazard.**

**Disconnect remote electrical power supply or supplies before servicing.**

**Failure to do so could result in electric shock or death.**

### **WARNING**

**Exposed moving parts.**

**Disconnect electrical power before servicing.**

**Failure to do so could result in severe injury or amputation.**

### **CAUTION**

**Cut hazard.**

**Wear gloves to avoid contact with sharp edges.**

**Failure to do so could result in personal injury.**

Disconnect all power to unit (see Figure 1).

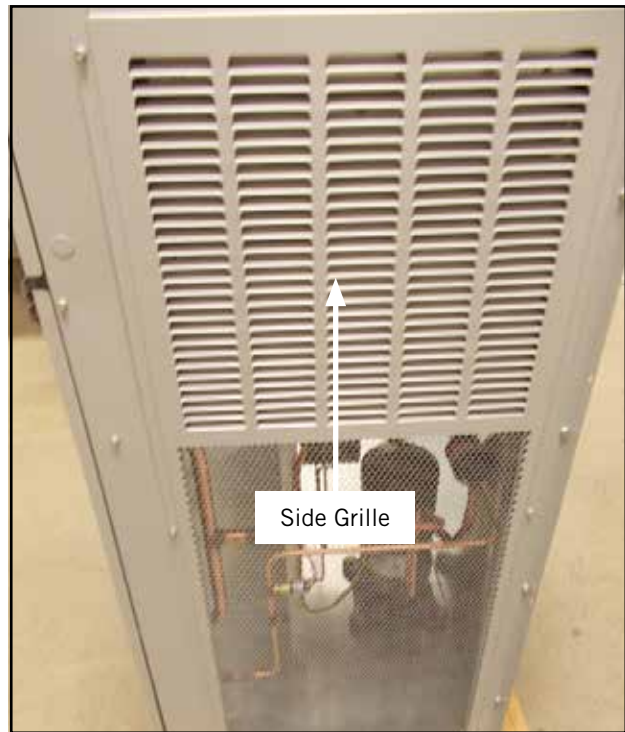
**FIGURE 1**  
**Disconnect Power**



**IMPORTANT:** Sheet metal has sharp edges. The use of personal protective equipment (PPE) is required.

Remove right side grille (see Figure 2).

**FIGURE 2**  
**Remove Side Grille**



Remove intake blank off plate from right side and discard (see Figure 3).

**FIGURE 3**  
**Remove Right Side Intake Blank Off Plate**



### FAD-NE5 Installations

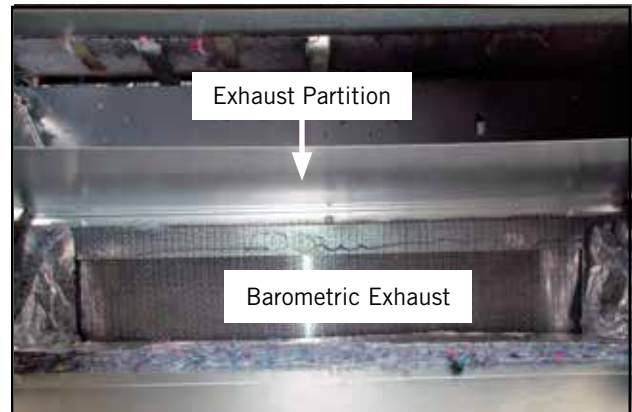
If an exhaust blank off plate is not already in place, install the blank off plate through return opening or right side intake opening using six (6) 1012-086 screws (see Figure 4).

**FIGURE 4**  
**Exhaust Blank Off Plate**



Install barometric exhaust through return or through right side intake opening. Then install the exhaust partition (from the top of the exhaust to the grille) to divide the return opening. The plate should come out of the return opening and be flush with the grille (see Figure 6).

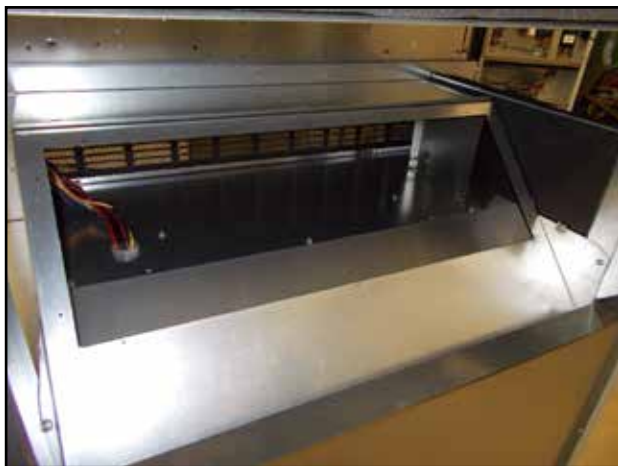
**FIGURE 6**  
**Barometric Exhaust and Partition installed**



### FAD-BE5 Installations

If an exhaust blank plate is already in place, remove the existing blank off plate through return or through right side intake opening and discard (see Figure 4). Figure 5 shows exhaust after blank off plate is removed. Barometric exhaust will be installed in same location.

**FIGURE 5**  
**Exhaust After Blank Off Plate is Removed**



Screw must be removed from FAD blade adjustment bracket before installation to ensure the correct fit (see Figure 7).

**FIGURE 7**  
**Remove FAD Blade Adjusting Screw**



*FAD-NE5 Installations:* Skip to instructions following Figure 6.

Install FAD on right side of unit. After installation, remove two (2) screws fastening the blade (see Figure 8).

After installation of the FAD components, re-install the right side grille and restore power to the unit.

**FIGURE 8**  
**Remove Blade Screws**

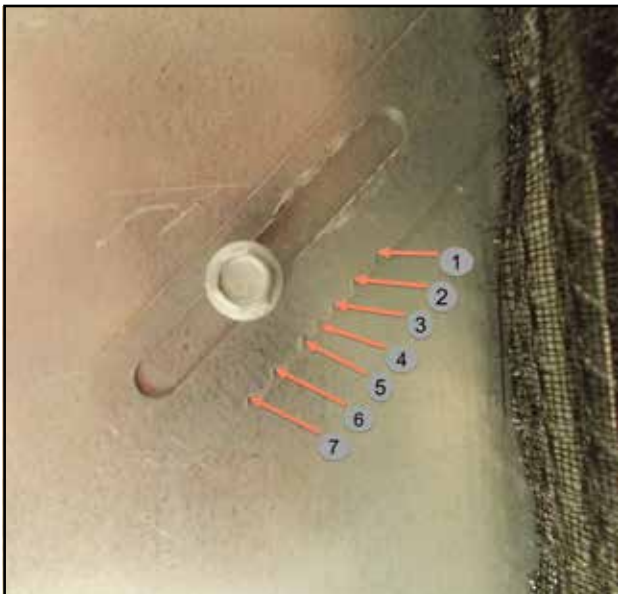


Re-install screw in FAD blade adjustment bracket (see Figure 9).

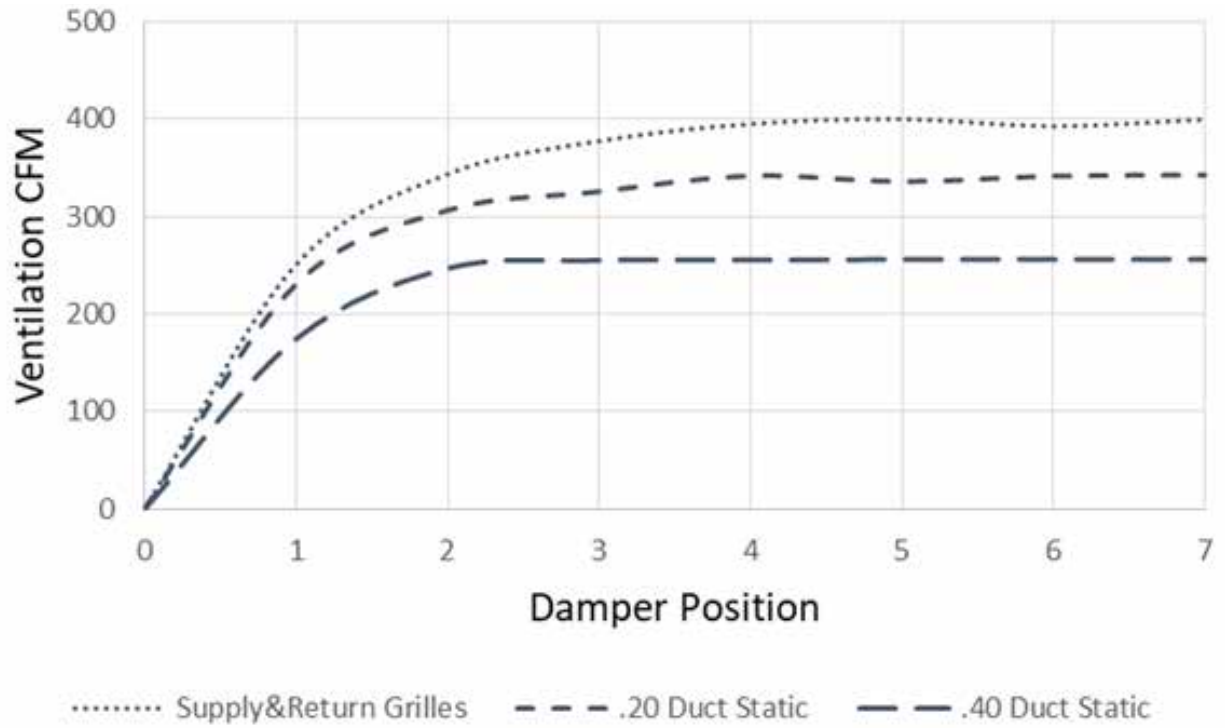
The amount of outside fresh air brought into the structure is dependent on the blade stop pin location (Figure 9) and atmospheric pressure in the conditioned space.

Refer to graphs 1-10 (beginning on page 5) for ventilation air CFM per blade pin setting with and without exhaust.

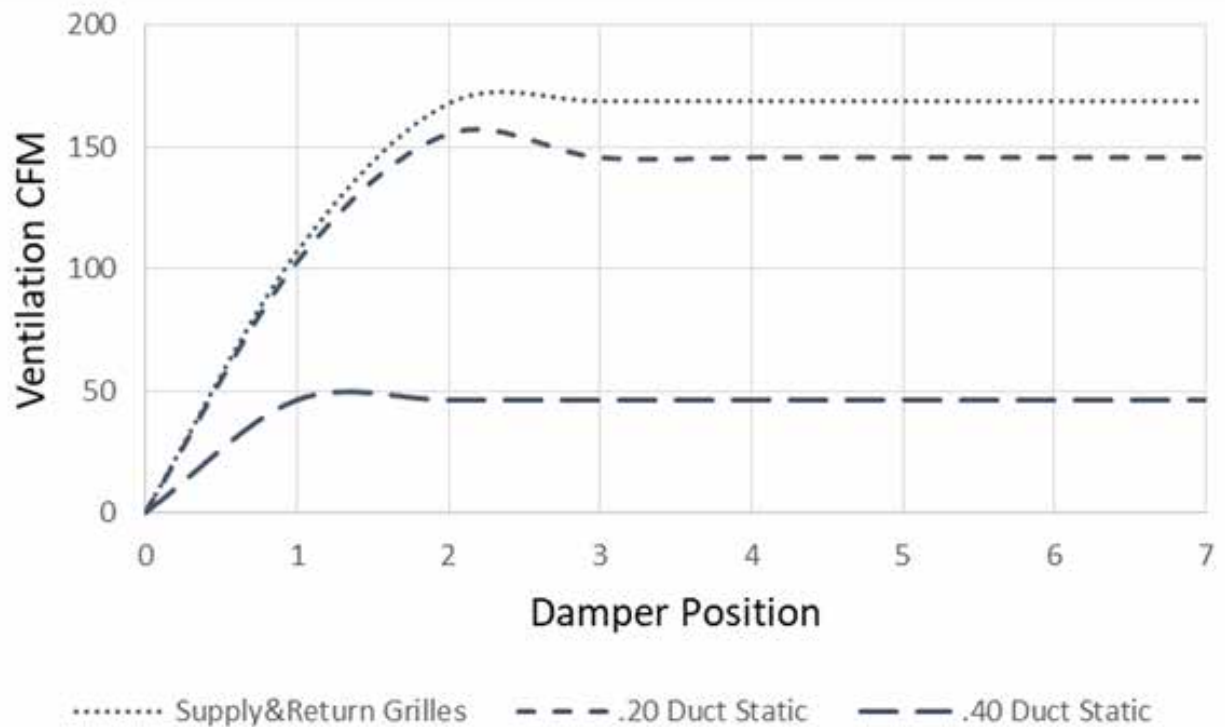
**FIGURE 9**  
**Re-Install Blade Adjustment Bracket Screw**



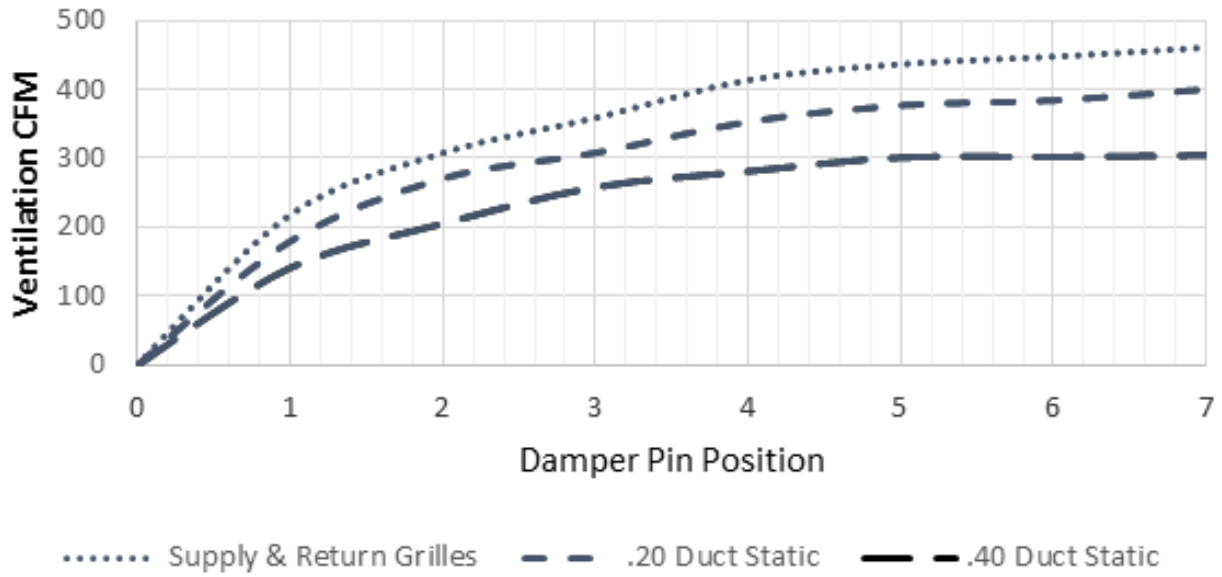
**GRAPH 1**  
**W3SAC FAD-BE5 W/Exhaust Ventilation Delivery**



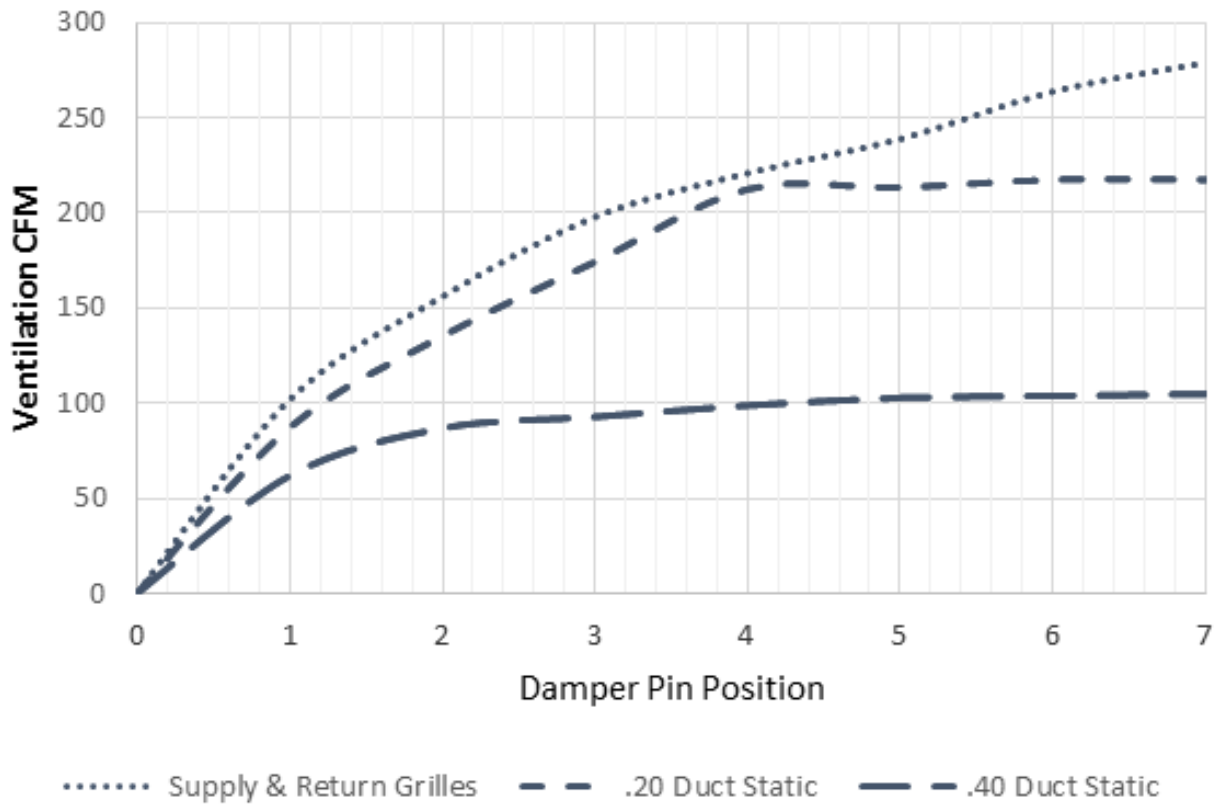
**GRAPH 2**  
**W3SAC FAD-NE5 W/O Exhaust Ventilation Delivery**



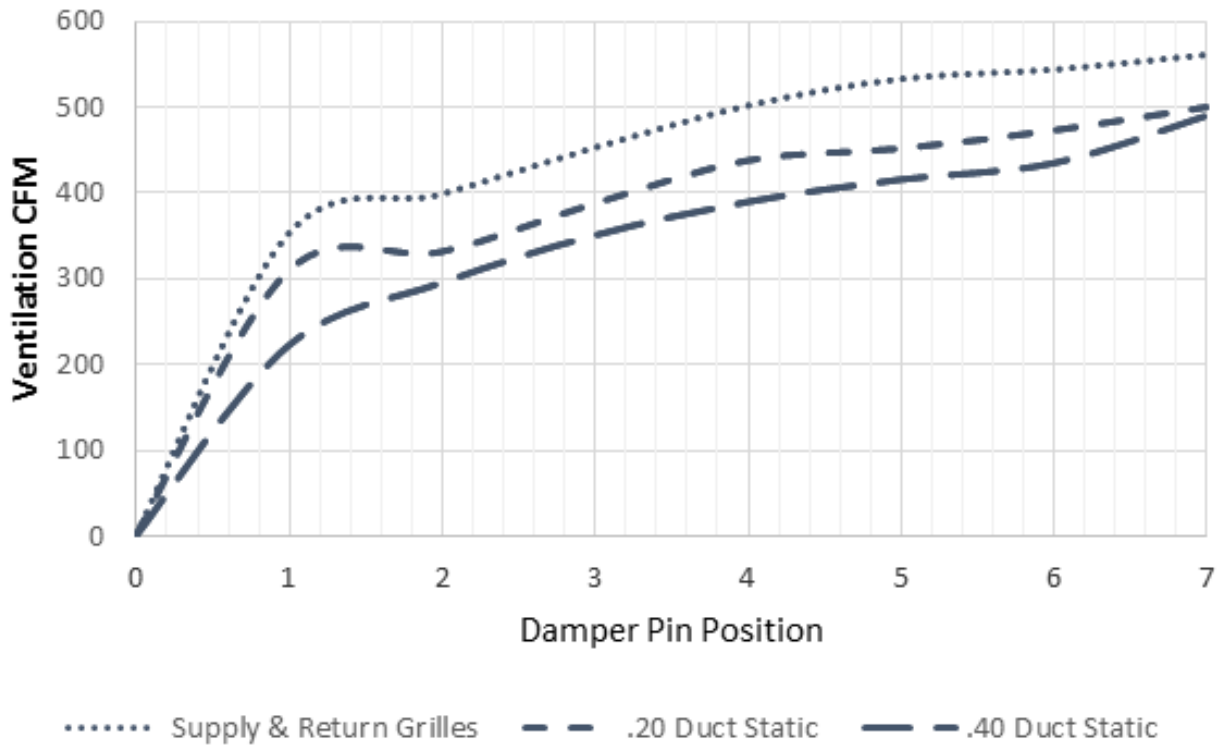
**GRAPH 3**  
**W/J42\*C FAD-BE5 W/Exhaust Ventilation Delivery**



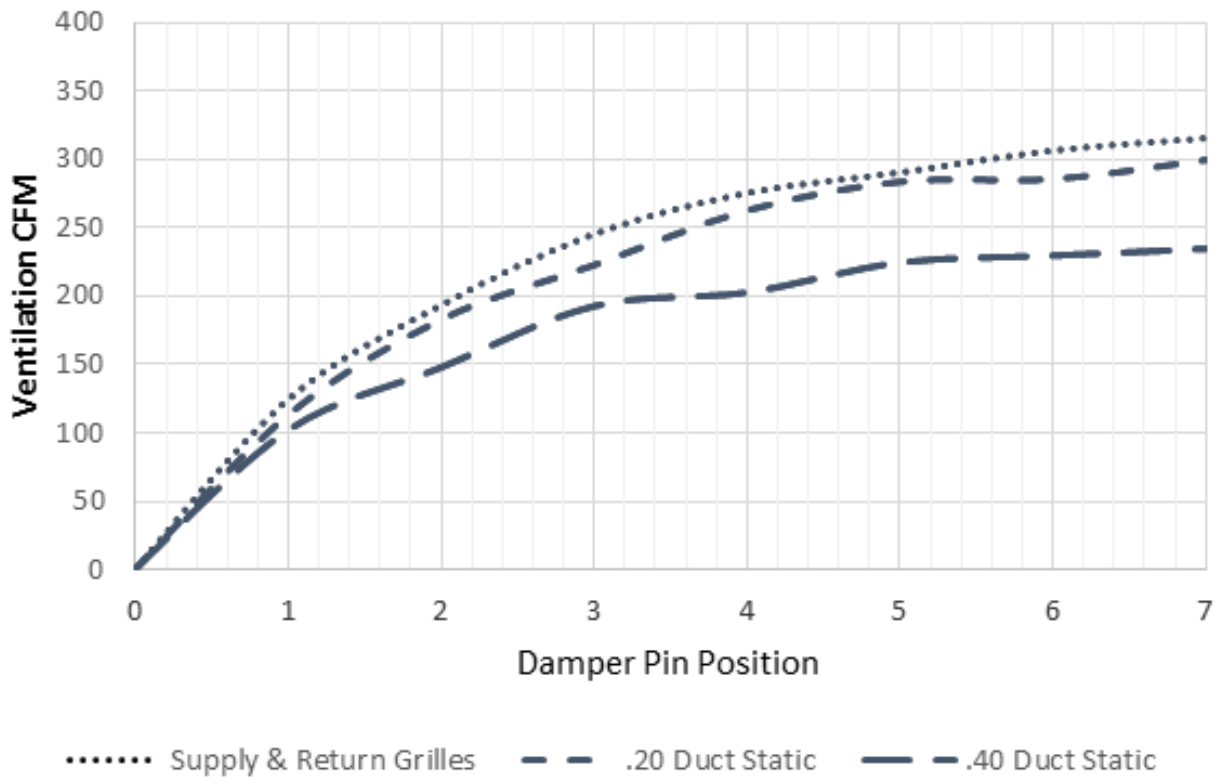
**GRAPH 4**  
**W/J42\*C FAD-NE5 W/O Exhaust Ventilation Delivery**



**GRAPH 5**  
**W4SAC and W/J48°C FAD-BE5 W/Exhaust Ventilation Delivery**

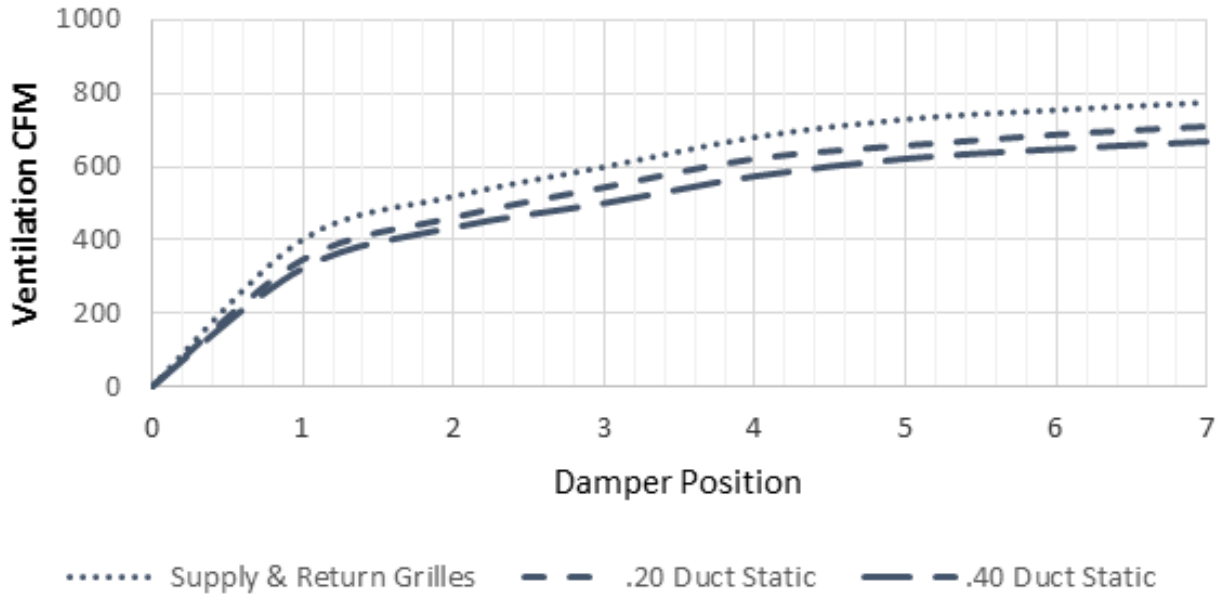


**GRAPH 6**  
**W4SAC and W/J48°C FAD-NE5 W/O Exhaust Ventilation Delivery**

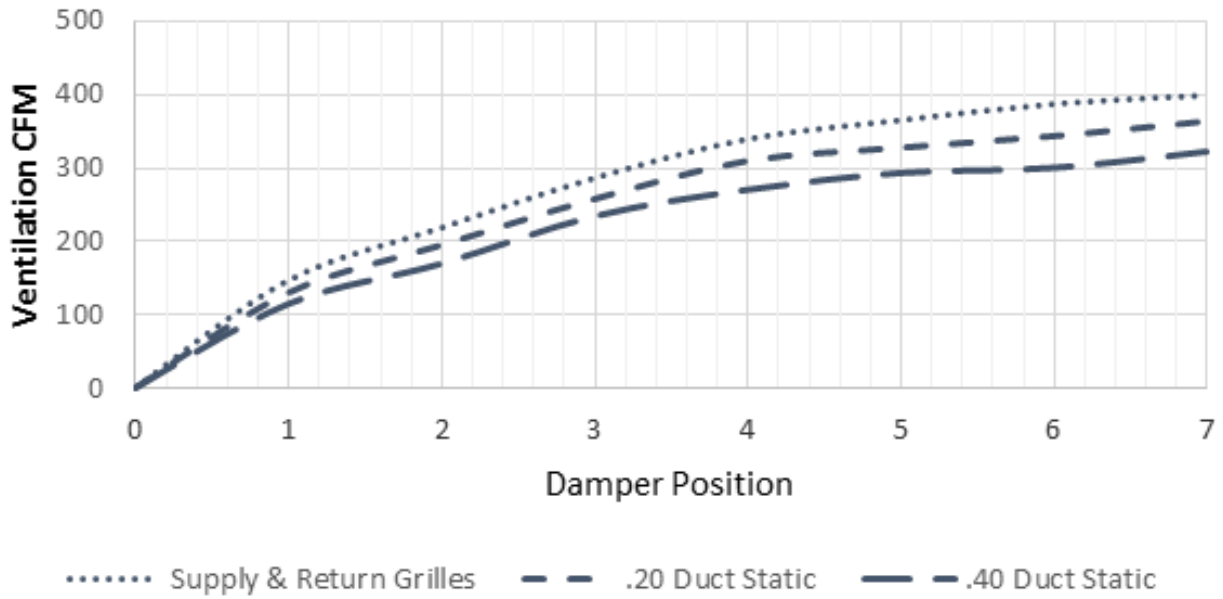




**GRAPH 7**  
**W5SAC and W/J60°C FAD-BE5 W/Exhaust Ventilation Delivery**

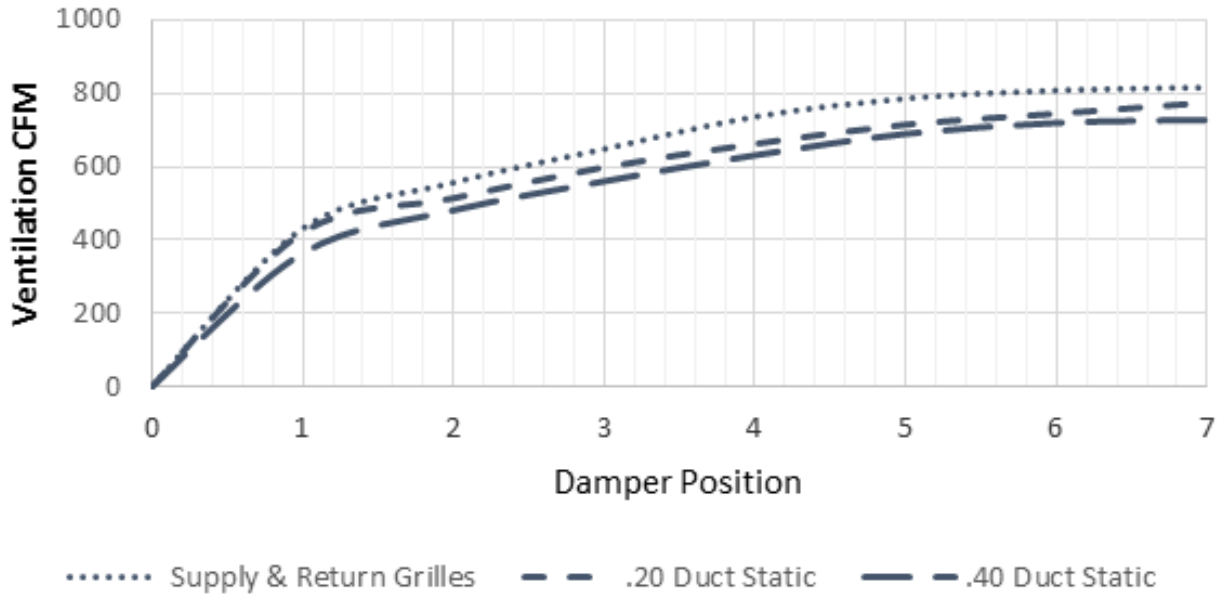


**GRAPH 8**  
**W5SAC and W/J60°C FAD-NE5 W/O Exhaust Ventilation Delivery**





**GRAPH 9**  
**W/J72AC FAD-BE5 W/Exhaust Ventilation Delivery**



**GRAPH 10**  
**W/J72AC FAD-NE5 W/O Exhaust Ventilation Delivery**

