# Drop Box Module | High Capacity Supply



# **ENGINEERING SPECIFICATION & CONFIGURATION**

# **SECTION 1: GENERAL**

# 1.01 - Section Covers

A. Drop Box Diffusers

### 1.02 - Related Requirements

- A. Section Includes:
  - 1. High-Capacity Drop Box Module

#### 1.03 - Submittals

- A. Product Data: For each type of product indicated, include the following:
  - Data Sheet: Indicate materials of construction, finish and mounting details and performance data including throw, static pressure, sound ratings

#### **SECTION 2: PRODUCTS**

### 2.01 - Manufacturer

- A. Manufacturer: Krueger
  - Drop Box Module with DPL Drum Louver Outlets
  - 2. Drop Box Module with 6880-20V Industrial Supply Grilles

# 2.02 - Drop Box Module with DPL Drum Louver Outlets

### A. Description:

 Furnish and install Krueger model DBM with drum louver outlets of various sizes indicated on the plans and air distribution schedule

#### B. Construction:

- Dropbox will consist of 0.044" plain steel plenum and DPL outlets will be constructed of aluminum
- 2. Dropbox diffusers shall consist of an interior baffle pyramid
- 3. The rectangular inlets shall have a minimum of a 3.75" depth available for duct connection
- 4. DPL diffusers can be adjusted 30° up and down from the central position and the blades can be individually adjusted for horizontal spread
- Dropbox shall have a nominal capacity of (select one):
  - a. 4,000 CFM capacity (4-way outlet)
  - b. 5,000 CFM capacity (4-way outlet)
  - c. 7,500 CFM capacity (4-way outlet)
  - d. 10,000 CFM capacity (6-way outlet)
  - e. 12,500 CFM capacity (6-way outlet)
  - f. 15,000 CFM capacity (6-way outlet)
  - g. 17,500 CFM capacity (6-way outlet) h. 20,000 CFM capacity (6-way outlet)
  - i. 22,500 CFM capacity (6-way outlet)
  - j. 25,000 CFM capacity (6-way outlet)

- C. Finish: Standard Finish will be #44 white. Optional finishes shall be available
  - 1. The standard finish will be an electrophoretic enamel paint, baked at 310° F for 30 minutes
  - 2. The paint thickness shall be 1.0 1.2 mils
  - 3. The finish shall have a pencil hardness of HB-H per ASTM D3363-92A
  - 4. The paint shall meet the requirements of ASTM D2794-93, with a direct impact resistance greater than 100 inch-pounds and a reverse impact resistance greater than 80 inch-pounds
  - 5. The paint must pass a 100-hour ASTM B117 Corrosive Environments Salt Spray Test without creepage, blistering or deterioration of film

### D. Accessories:

- 1. Internal 1" Black Fiberglass Insulation
- 2. Internal 1" Black Fiber Free Insulation

# 2.03 - Drop Box Module with 6880-20V Industrial Supply Grilles

- A. Description:
  - Furnish and install Krueger model DBM with industrial supply grilles of various sizes indicated on the plans and air distribution schedule

## B. Construction:

- Dropbox will consist of 0.044" plain steel plenum and 6880-20V industrial double deflection supply grilles will be constructed of steel
- Dropbox diffusers shall consist of an interior baffle pyramid
- 3. The rectangular inlets shall have a minimum of a 3.75" depth available for duct connection
- 4. Dropbox shall have a nominal capacity of (select one):
  - a. 4,000 CFM capacity (4-way outlet)
  - b. 5,000 CFM capacity (4-way outlet)
  - c. 7,500 CFM capacity (4-way outlet)
  - d. 10,000 CFM capacity (6-way outlet)
  - e. 12,500 CFM capacity (6-way outlet)
  - f. 15,000 CFM capacity (6-way outlet)
  - g. 17,500 CFM capacity (6-way outlet) h. 20,000 CFM capacity (6-way outlet)
  - i. 22,500 CFM capacity (6-way outlet)
  - j. 25,000 CFM capacity (6-way outlet)
- C. Finish: Standard Finish will be #44 white. Optional finishes shall be available
  - 1. The standard finish will be an electrophoretic enamel paint, baked at 310° F for 30 minutes
  - 2. The paint thickness shall be 1.0 1.2 mils
  - 3. The finish shall have a pencil hardness of HB-H per ASTM D3363-92A





# ENGINEERING SPECIFICATION & CONFIGURATION (CONTINUED)

- 4. The paint shall meet the requirements of ASTM D2794-93, with a direct impact resistance greater than 100 inch-pounds and a reverse impact resistance greater than 80 inch-pounds
- 5. The paint must pass a 100-hour ASTM B117 Corrosive Environments Salt Spray Test without creepage, blistering or deterioration of film

# D. Accessories:

- 1. Internal 1" Black Fiberglass Insulation
- 2. Internal 1" Black Fiber Free Insulation

### **SECTION 3: EXECUTION**

### 3.01 - Examination

- A. Ensure that all conditions are appropriate before beginning installation
- B. Ensure all field measurements align with the specifications depicted in the drawings
- C. Notify architect of any inadequate preparation if another installer is responsible for installation before proceeding

### 3.02 - Installation

- A. Install Diffusers level and plumb
- B. Verify diffuser air patterns are as indicated on drawings during installation
- C. Diffusers shall be installed with airtight connection to ducts to allow the service and maintenance of dampers

# 3.03 - Closeout Activities

A. After installation, verify diffuser air patterns as directed before starting air balance

#### 1. SERIES: (X)

DBM - Drop Box Module

# 2. NUMBER OF OUTLETS: (X)

4 - 4 Outlets

6 - 6 Outlets

# 3. CFM: (XXXXX)

4,000

5,000

7,500

10,000

12,500

15.000

17,500

20,000

22,500

25,000

# 4. INSULATION: (X)

H - Fiberglass

Y - Fiber-free

# 5. OUTLET TYPE: (X)

- D DPL Drum Louver
- G 6880-20V Grille

# 6. FINISH: (XX)

01 - Mill

07 - Enamel Paint Match

35 - Black

44 - British White

M1-65© Copyright Krueger 2024