

## **SECTION 233713 - DIFFUSERS, REGISTERS, & GRILLES**

### **PART 1 - GENERAL**

#### 1.1 SUMMARY

- A. Section Includes:
  - 1. Square ceiling diffusers.
  - 2. Linear slot diffusers.
  - 3. Linear vane diffusers.
  - 4. Louvered grilles.
  - 5. Spiral duct grilles.
  
- B. Related Requirements:
  - 1. Section 233300 "Air Duct Accessories".
  - 2. Section 233716 "Fabric Air-Diffusion Devices".

#### 1.2 ACTION SUBMITTALS

- A. Product Data: For each type of product.

### **PART 2 - PRODUCTS**

#### 2.1 SQUARE CEILING DIFFUSERS: (CD-1, 2, & 3, RG-1, EG-1 & 2, TG-1)

- A. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the work include, but are not limited to:
  - 1. Greenheck
  - 2. Krueger
  - 3. Nailor
  - 4. Price
  - 5. Titus
  
- B. Devices shall be specifically designed for variable-air-volume flows.
  
- C. Material: Steel.
  
- D. Finish: Powder coat, white.
  
- E. Face Size: 24 by 24 inches.
  
- F. Face Style: Plaque.

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DIFFUSERS

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- G. Mounting: T-bar.
- H. Pattern: Fixed.

## 2.2 LINEAR SLOT DIFFUSERS: (SD-1)

- A. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the work include, but are not limited to:
  - 1. Greenheck
  - 2. Krueger
  - 3. Nailor
  - 4. Price
- B. Devices shall be specifically designed for variable-air-volume flows.
- C. Material - Shell: Steel.
- D. Material - Pattern Controller and Tees: Aluminum.
- E. Finish - Face and Shell: Powder coat, black.
- F. Finish - Pattern Controller: Powder coat, black.
- G. Finish - Tees: Powder coat, white.
- H. Slot Width: 1 inch.
- I. Number of Slots: Four.
- J. Length: 48 inches.
- K. Accessories: Center notch.

## 2.3 LINEAR VANE DIFFUSERS: (LD-1 & 2)

- A. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the work include, but are not limited to:
  - 1. Greenheck
  - 2. Krueger
  - 3. Nailor
  - 4. Price
- B. Devices shall be specifically designed for variable-air-volume flows.
- C. Material: Aluminum.

- D. Finish: Powder coat, white.
- E. Face Size: 48 by 5 inches (LD-1) and 60 by 5 inches (LD-2).
- F. Face Style: Deflection louvers.
- G. Mounting: Surface.
- H. Pattern: Fixed.
- I. Accessories
  - 1. Remote operated cable balance damper

#### 2.4 LOUVERED GRILLES: (RG-2, 3, & 4, TG-2)

- A. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the work include, but are not limited to:
  - 1. Greenheck
  - 2. Krueger
  - 3. Nailor
  - 4. Price
- B. Material: Aluminum.
- C. Finish: Powder coat, white.
- D. Face Blade Arrangement: Horizontal spaced 1/2 inch apart.
- E. Core Construction: Integral.
- F. Frame: 1-1/4 inches wide.
- G. Mounting: Countersunk screw.
- H. Accessories:
  - 1. Aluminum opposed blade damper (RG-2, 3, & 4)

#### 2.5 SPIRAL DUCT GRILLES: (SG-1)

- A. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the work include, but are not limited to:
  - 1. Greenheck
  - 2. Krueger
  - 3. Nailor
  - 4. Price

- B. Material: Aluminum.
- C. Finish: Powder coat, white.
- D. Face Blade Arrangement: Horizontal spaced 3/4 inch apart.
- E. Core Construction: Integral.
- F. Frame: 1 inch wide.
- G. Mounting: Countersunk screw.
- H. Accessories:
  - 1. Rod operated air scoop

### **PART 3 - EXECUTION**

#### 3.1 INSTALLATION

- A. Install diffusers, registers, and grilles level and plumb.
- B. Outlets and Inlets: Drawings indicate general arrangement of ducts, fittings, and accessories. Air outlet and inlet locations have been indicated to achieve design requirements for air volume, noise criteria, airflow pattern, throw, and pressure drop. Make final locations where indicated, as much as practical. For units installed in lay-in ceiling panels, locate units in the center of panel. Where architectural features or other items conflict with installation, notify Architect for a determination of final location. Install diffusers, registers, and grilles with airtight connections to ducts and to allow service and maintenance of dampers.

#### 3.2 ADJUSTING

- A. After installation, adjust diffusers and registers to air patterns indicated, or as directed, before starting air balancing.

END OF SECTION 233713