**Price Stainless Steel Louvered Face Filter Return Grille**

**Division 23 – Heating, Ventilating, and Air Conditioning**

**Section 23 37 13 – Diffusers, Registers, and Grilles**

The following specification is for a defined application. Price would be pleased to assist in developing a specification for your specific need.

**PART 1 – GENERAL**

* 1. **Section includes**:
1. Louvered Face Return Grille.
2. Louvered Face Filter Return Grille.

**1.02 Related Requirements**

1. Section 01 30 00 – Administrative Requirements
2. Section 01 40 00 – Quality Requirements
3. Section 01 60 00 – Product Requirements
4. Section 01 74 19 – Construction/Demolition Waste Management and Disposal
5. Section 01 78 00 – Closeout Submittals
6. Section 01 79 00 – Demonstration and Training
7. Section 23 31 00 – HVAC Ducts and Casings
8. Section 23 32 00 – Air Plenums and Chases

**1.03 Reference Standards**

A. ASHRAE Standard 55 – Thermal Environmental Conditions for Human Occupancy; 2013

B. ASHRAE Standard 70 – Method of Testing the Performance of Air Outlets and Air Inlets; 2006

**1.04 Administrative Requirements**

A. Pre-installation Meeting: Conduct a pre-installation meeting one week prior to the start of the work of this section; require attendance by all affected installers.

B. Sequencing: Ensure that utility connections are achieved in an orderly and efficient manner.

**1.05 Submittals**

A. See Section 01 30 00 – Administrative Requirements for submittal procedures.

B. Product Data: Provide data indicating configuration, general assembly, and materials used in fabrication. Include catalog performance ratings that indicate air volume flow, initial pressure drop, sound performance, and throw, as tested in accordance with ASHRAE Standard 70-2006.

C. Shop Drawings: Indicate configuration, general assembly, and materials used in fabrication.

D. Certificates: Certify that air capacities, pressure drops, and selection procedures meet or exceed specified requirements.

E. Manufacturer's Installation Instructions: Indicate support and hanging details, installation instructions, recommendations, and service clearances required.

F. Project Record Documents: Record actual locations of units and control components.

G. Operation and Maintenance Data: Include manufacturer's descriptive literature, operating instructions, maintenance and repair data, and parts lists.

H. Warranty: Submit manufacturer warranty and ensure forms have been completed in Owner's name and registered with manufacturer.

I. Maintenance Materials: Furnish the following for Owner's use in maintenance of project.

1. See Section 01 60 00 - Product Requirements for additional provisions.

**1.06 Quality Assurance**

1. Manufacturer Qualifications: Company specializing in manufacturing the type of products specified in this section, with minimum ten years of documented experience.
2. Product Listing Organization Qualifications: An organization recognized by OSHA as a Nationally Recognized Testing Laboratory (NRTL) and acceptable to authorities having jurisdiction.

**1.07 Warranty**

1. See Section 01 78 00 - Closeout Submittals, for additional warranty requirements.
2. Provide 18 month manufacturer warranty from date of shipment for grilles and registers.

**PART 2 – PRODUCTS**

**2.01** **Louvered Face** **Return Grilles and Registers**

1. Basis of Design: Price Industries, Inc.
2. Stainless Steel Louvered Face Return Grille: 730H, 735H
3. Stainless Steel Louvered Face Return Register: 730HDSS, 735HDSS

**2.02 Stainless Steel Louvered Face** **Return Grille**

1. Description
	1. Furnish and install Price Model [730H], [735H] stainless steel louvered frame return grilles of sizes and mounting types designated by the plans and air distribution schedule.
2. Construction:
	1. Grilles shall be stainless steel construction with 45 degree deflection fixed louver blades.
	2. Louver blades shall be spaced (**select one**):
		1. ¾ inch (19 mm) on center [730H]
		2. ½ inch (13 mm) on center [735H]
	3. The blades shall run parallel to the [long or short] dimension of the grille.
	4. The grille shall be attached to the mounting frame by stainless steel quarter turn quick-release fasteners.
	5. The border style shall suitable for sidewall surface mounting.
3. Finish(**select one**):
	1. The border shall have a #4 polished finish.
	2. The blades shall have a 2B mill finish.

**2.03** **Stainless Steel Louvered Face** **Return Register**

1. Description:
	1. Furnish and install Price Model [730HDSS], [735HDSS] stainless steel louvered filter return registers of sizes and mounting types designated by the plans and air distribution schedule.
2. Construction:
	1. Registers shall be stainless steel construction with 45 degree deflection fixed louver blades.
	2. Louver blades shall be spaced (**select one**):
		1. ¾ inch (19 mm) on center [730HDSS]
		2. ½ inch (13 mm) on center [735HDSS]
	3. The blades shall run parallel to the [long or short] dimension of the grille.
	4. The register shall be attached to the mounting frame by stainless steel quarter turn quick-release fasteners.
	5. The border style shall suitable for sidewall surface mounting.
3. Finish (**select one**):
	1. The border shall have a #4 polished finish.
	2. The blades shall have a 2B mill finish.
4. Damper:
	1. Registers shall be supplied with a stainless steel, opposed blade damper.

**PART 3 – EXECUTION**

**3.01 Examination**

A. Verify that conditions are suitable for installation.

B. Verify that field measurements are as shown on the drawings.

**3.02 Installation**

1. Install in accordance with manufacturer’s instructions.
2. See drawings for the size(s) and locations of high capacity flush face diffuser inlets.
3. Support components individually from structure in accordance with SMACNA (SRM).
4. Do not support components from ductwork.
5. Connect to ductwork in accordance with Section 23 31 00.

**3.03 Adjusting**

1. Ensure supply air to the flush face diffusers by performing pitot traverse of the main supply duct.
2. Balance outlets according to manufacturer’s recommendations.
3. Verify that field measurements are as shown on the drawings.

**3.04 Field Quality Control**

1. See Section 01 40 00 – Quality Requirements for additional requirements.

**3.05 Cleaning**

1. See Section 01 74 19 – Construction Waste Management and Disposal for additional requirements.

**3.06 Closeout Activities**

1. See Section 01 78 00 – Closeout Submittals for closeout documentation requirements.
2. See Section 01 79 00 – Demonstration and Training for additional requirements.