

Square / Rectangular Directional

SMD / AMD

Louvered Face Fixed Air Pattern

Furnish and install Price model SMD steel, AMD aluminum directional louvered face diffusers of the sizes and mounting types shown on the plans and air distribution schedule. Diffusers shall consist of an outer frame assembly, which facilitates mounting in the application shown. A collar that allows connection to the square (or rectangular) duct size indicated shall be an integral part of the frame assembly. An inner core assembly consisting of fixed louvers capable of producing the air flow discharge pattern indicated on the plans shall be fully removable from the installed diffuser frame for access to any dampers or other ductwork components located in or near the diffuser neck. The inner core assemblies shall be identically constructed so that directional core assemblies providing different air flow discharge patterns may be interchanged between frames, provided the frame duct connections are of the same size. Finish shall be B12 white powder coat. Paint finish shall pass 500 hours of salt spray exposure with no measurable creep in accordance with ASTM D1654 and 1000 hours with no rusting or blistering as per ASTM D610 and ASTM D714.

LCMD

Light Commercial Directional Diffuser

Furnish and install Price model LCMD directional louvered face diffuser of the sizes and mounting types shown on the plans and air distribution schedule. Diffusers shall consist of an outer frame assembly which facilitates mounting in the application shown. A collar that allows connection to the square (or rectangular) duct size indicated shall be an integral part of the frame assembly. Diffuser shall be of all extruded aluminum construction, including an extruded aluminum frame. An inner core assembly consisting of fixed louvers capable of producing the air flow discharge pattern indicated on the plans shall be fully removable from the installed diffuser frame for access to any dampers or other ductwork components located in or near the diffuser neck. Diffuser louver patterns shall be available in 1, 2, 2 way corner, 3 and 4 way horizontal patterns. Louvered blades shall be spaced one (1) inch from each other. The inner core assemblies shall be identically constructed so that directional core assemblies providing different air flow discharge patterns may be interchanged between frames, provided the frame duct connections are of the same size. Finish shall be B12 white powder coat. Paint finish shall pass 500 hours of salt spray exposure with no measurable creep in accordance with ASTM D1654 and 1000 hours with no rusting or blistering as per ASTM D610 and ASTM D714.

SMD-FR

Supply - Louvered Face, Fixed Air Pattern, Fire-Rated

Furnish and install Price model SMD-FR directional louvered face diffusers of the sizes and mounting types shown on the plans and air distribution schedule. Diffusers shall be Fire-Rated Assemblies listed in the UL, Underwriters Laboratories Fire Resistance Directory and in the ULC, Underwriters Laboratories of Canada Equipment and Materials Directory. Diffusers shall meet UL time vs. temperature test criteria and NFPA 90A requirements. This design is intended for use in an exposed grid suspended ceiling (T-bar Lay-in) with up to a three-hour rating and must be installed in accordance with installation instructions.

Diffusers shall consist of an outer frame assembly, which facilitates mounting in the application shown. A collar that allows connection to the square (or rectangular) duct size indicated shall be an integral part of the assembly. An inner core assembly consisting of fixed louvers capable of producing the air flow discharge pattern indicated on the plans shall be fully removable from the installed diffuser frame for access to any dampers or other ductwork components located in or near the diffuser neck. The inner core assemblies shall be identically constructed so that directional core assemblies providing different air flow discharge patterns may be interchanged between frames, provided the frame duct connections are of the same size. Diffuser shall incorporate a non-adjustable butterfly-type ceiling radiation damper, a 165 °F [74 °C] fusible link, and a non-asbestos thermal blanket. Finish shall be B12 white powder coat. Paint finish shall pass 500 hours of salt spray exposure with no measurable creep in accordance with ASTM D1654 and 1000 hours with no rusting or blistering as per ASTM D610 and ASTM D714.

Options:

- Volume adjustment for balancing
- 212 °F [100 °C] fusible link
- Optional finishes available
- Optional T-bar Lay-in Panel

Square / Rectangular Directional

SMDA / AMDA

Adjustable Air Pattern

Furnish and install Price model SMDA steel, AMDA aluminum directional louvered face diffusers of the sizes and mounting types shown on the plans and air distribution schedule. Diffusers shall consist of an outer frame assembly, which facilitates mounting in the application shown. A collar that allows connection to the square (or rectangular) duct size indicated shall be an integral part of the frame assembly. An inner core assembly consisting of fixed louvers capable of producing the air flow discharge pattern indicated on the plans shall be fully removable from the installed diffuser frame for access to any dampers or other ductwork components located in or near the diffuser neck. A set of adjustment vanes shall be provided on each side of the diffuser to allow for field adjustment from horizontal to vertical air flow discharge.

Finish shall be B12 white powder coat. Paint finish shall pass 500 hours of salt spray exposure with no measurable creep in accordance with ASTM D1654 and 1000 hours with no rusting or blistering as per ASTM D610 and ASTM D714.

SMDP

Fixed Air Pattern

Furnish and install Price model SMDP steel louvered face diffusers of the sizes and mounting types shown on the plans and air distribution schedule. Diffusers shall consist of an outer frame assembly, which facilitates mounting in the application shown. A collar that allows connection to the square duct size indicated shall be an integral part of the frame assembly. An inner core assembly consisting of fixed louvers with a plaque in the center shall be fully removable from the installed diffuser frame for access to any dampers or other ductwork components located in or near the diffuser neck. Finish shall be B12 white powder coat. Paint finish shall pass 500 hours of salt spray exposure with no measurable creep in accordance with ASTM D1654 and 1000 hours with no rusting or blistering as per ASTM D610 and ASTM D714.

SMDA-FR

Supply - Louvered Face, Adjustable Air Pattern, Fire-Rated

Furnish and install Price model SMDA-FR directional louvered face diffusers of the sizes and mounting types shown on the plans and air distribution schedule. Diffusers shall be Fire-Rated Assemblies listed in the UL, Underwriters Laboratories Fire Resistance Directory and in the ULC, Underwriters Laboratories of Canada Equipment and Materials Directory. Diffusers shall meet UL time vs. temperature test criteria and NFPA 90A requirements. This design is intended for use in an exposed grid suspended ceiling (T-bar Lay-in) with up to a three-hour rating and must be installed in accordance with installation instructions.

Diffusers shall consist of an outer frame assembly, which facilitates mounting in the application shown. A collar that allows connection to the square (or rectangular) duct size indicated shall be an integral part of the assembly. An inner core assembly consisting of fixed louvers capable of producing the air flow discharge pattern indicated on the plans shall be fully removable from the installed diffuser frame for access to any dampers or other ductwork components located in or near the diffuser neck. The inner core assemblies shall be identically constructed so that directional core assemblies providing different air flow discharge patterns may be interchanged between frames, provided the frame duct connections are of the same size. A set of adjustment vanes shall be provided on each side of the diffuser to allow for field adjustment from horizontal to vertical air flow discharge. Diffuser shall incorporate a non-adjustable butterfly-type ceiling radiation damper, a 165 °F [74 °C] fusible link, and a non-asbestos thermal blanket. Finish shall be B12 white powder coat. Paint finish shall pass 500 hours of salt spray exposure with no measurable creep in accordance with ASTM D1654 and 1000 hours with no rusting or blistering as per ASTM D610 and ASTM D714.

Options:

- Volume adjustment for balancing
- 212 °F [100 °C] fusible link
- Optional finishes available
- Optional T-bar Lay-in Panel

Square / Rectangular Directional

CSRD

Furnish and install Price model CSRD square or rectangular neck directional supply and return air combination diffusers of sizes and capacities as shown on the drawings (or the diffuser schedule). Diffuser shall supply air to the space with horizontal air flow pattern through outer slots and return air through a center mounted core of $1\frac{1}{2}$ in. x $1\frac{1}{2}$ in. x $1\frac{1}{2}$ in. aluminum egg crate.

Supply section of diffuser shall provide ceiling blanketing air pattern and shall adapt to variable volume roof top units.

Diffusers shall consist of an outer frame (flanged) sub-assembly for surface mounting and a removable* inner core, along with center eggcrate (*on most sizes).

Finish shall be B12 white powder coat. Paint finish shall pass 500 hours of salt spray exposure with no measurable creep in accordance with ASTM D1654 and 1000 hours with no rusting or blistering as per ASTM D610 and ASTM D714.

SMX

Steel Construction

Furnish and install Price model SMX louvered rapid mixing diffusers of the sizes and frame types shown on the plans and schedules.

Diffusers shall consist of a formed steel outer frame (except frames 6 and 33 which shall have an extruded aluminum frame) assembly, which facilitates mounting in the application shown. A collar that allows connection to the square (or rectangular) duct size indicated shall be an integral part of the frame assembly. This collar fits inside the duct.

Optional:

Provide a connecting collar, sized to fit outside the supply duct for a low leakage joint. The formed steel collar shall be welded or clinch locked to the diffuser frame.

The inner core assembly shall consist of formed steel fixed louvers capable of producing the air flow discharge pattern indicated on the plans. Steel mixing vanes shall be fastened to the back of the fixed louvers. Vanes shall be designed to produce high induction and rapid mixing of the primary and room air. Inner core assemblies shall be easily removable from the installed diffuser frame for access to any dampers or other ductwork components located in or near the diffuser neck.

Finish shall be B12 white powder coat. Paint finish shall pass 500 hours of salt spray exposure with no measurable creep in accordance with ASTM D1654 and 1000 hours with no rusting or blistering as per ASTM D610 and ASTM D714.

Options:

- Opposed blade damper shall be of steel construction painted black.
- Corners of core shall be rounded to facilitate cleaning.
- Square to round adaptor shall be of coated steel construction.

SMX-FR

Supply - Louvered Face, Fixed Pattern, Fire-Rated

Furnish and install Price model SMX-FR louvered rapid mixing diffusers of the sizes and frame types shown on the plans and schedules. Diffusers shall be Fire-Rated Assemblies listed in the UL, Underwriters Laboratories Fire Resistance Directory and in the ULC, Underwriters Laboratories of Canada Equipment and Materials Directory. Diffusers shall meet UL time vs. temperature test criteria and NFPA 90A requirements. This design is intended for use in an exposed grid suspended ceiling (T-bar Lay-in) with up to a three-hour rating and must be installed in accordance with installation instructions.

Diffusers shall consist of a formed steel outer frame assembly, which facilitates mounting in the application shown. A collar that allows connection to the square (or rectangular) duct size indicated shall be an integral part of the assembly. This collar fits inside the duct. The inner core assembly shall consist of formed steel fixed louvers capable of producing the air flow discharge pattern indicated on the plans. Steel mixing vanes shall be fastened to the back of the fixed louvers. Vanes shall be designed to produce high induction and rapid mixing of the primary and room air. Inner core assemblies shall be easily removable from the installed diffuser frame for access to any dampers or other ductwork components located in or near the diffuser neck. Diffuser shall incorporate a non-adjustable butterfly-type ceiling radiation damper, a 165 °F [74 °C] fusible link, and a non-asbestos thermal blanket. Finish shall be B12 white powder coat. Paint finish shall pass 500 hours of salt spray exposure with no measurable creep in accordance with ASTM D1654 and 1000 hours with no rusting or blistering as per ASTM D610 and ASTM D714.

Options

- Volume adjustment for balancing
- 212 °F [100 °C] fusible link

Square / Rectangular Directional

- RCC - rounded core corners
- Optional finishes available
- Optional T-bar Lay-in Panel.

AMX

Aluminum Construction

Furnish and install Price model AMX louvered rapid mixing diffusers of the sizes and frame types shown on the plans and schedules. Diffusers shall consist of an extruded aluminum outer frame assembly, which facilitates mounting in the application shown. For styles 3P, 4P, 17P, a steel frame and panel shall be provided. A collar that allows connection to the square (or rectangular) duct size indicated shall be an integral part of the frame assembly. This collar fits inside the duct.

Optional:

Provide a connecting collar, sized to fit outside the supply duct for a low leakage joint. The formed aluminum collar shall be welded or clinch locked to the diffuser frame.

The inner core assembly shall consist of extruded aluminum fixed louvers capable of producing the air flow discharge pattern indicated on the plans. Aluminum mixing vanes shall be fastened to the back of the fixed louvers. Vanes shall be designed to produce high induction and rapid mixing of the primary and room air. Inner core assemblies shall be easily removable from the installed diffuser frame for access to any dampers or other ductwork components located in or near the diffuser neck.

Finish shall be B12 white powder coat. Paint finish shall pass 500 hours of salt spray exposure with no measurable creep in accordance with ASTM D1654 and 1000 hours with no rusting or blistering as per ASTM D610 and ASTM D714.

Options:

- Opposed blade damper shall be of (steel construction painted black) (aluminum construction mill finish)
- Corners of core shall be rounded to facilitate cleaning
- Square to round adaptor shall be of coated steel construction
- 3PAL, 4PAL, 17PAL - all aluminum frame and panel

SMCD / AMCD

Modular Core

Furnish and install Price model SMCD steel, AMCD aluminum directional modular core louvered face diffusers of the sizes and mounting types shown on the plans and air distribution schedule. Diffusers shall consist of an outer frame assembly, which facilitates mounting in the application shown. A collar that allows connection to the square duct size indicated shall be an integral part of the frame assembly. The diffuser core shall consist of fixed louver directional modules that may be easily field adjusted from the diffuser face (without any type of tools or mechanical device) for 1, 2, 3, or 4 way discharge. Each module shall be easily removable to allow for access to any damper or other ductwork component in or near the diffuser neck. Finish shall be B12 white powder coat. Paint finish shall pass 500 hours of salt spray exposure with no measurable creep in accordance with ASTM D1654 and 1000 hours with no rusting or blistering as per ASTM D610 and ASTM D714.

CVD

Curved Vane

Supply and install Price model CVD curved vane supply air diffusers of sizes and mounting styles as shown on the drawings (or diffuser schedule). Diffusers shall have adjustable curved extruded aluminum louver vanes.

Finish of diffuser face shall be B12 White Powder Coat. Paint finish shall pass 500 hours of salt spray exposure with no measurable creep in accordance with ASTM D1654 and 1000 hours with no rusting or blistering as per ASTM D610 and ASTM D714.

Square / Rectangular Directional

SCVD

Supply and install Price model SCVD curved vane supply air diffusers of sizes and mounting styles as shown on the drawings (or diffuser schedule).

Diffusers shall have adjustable curved roll-formed steel louver vanes.

Finish of diffuser face shall be B12 White Powder Coat. Paint finish shall pass 500 hours of salt spray exposure with no measurable creep in accordance with ASTM D1654 and 1000 hours with no rusting or blistering as per ASTM D610 and ASTM D714.

ACVD

Supply and install Price model ACVD curved vane supply air diffusers of sizes and mounting styles as shown on the drawings (or diffuser schedule).

Diffusers shall have adjustable curved roll-formed aluminum louver vanes.

Finish of diffuser face shall be B12 White Powder Coat. Paint finish shall pass 500 hours of salt spray exposure with no measurable creep in accordance with ASTM D1654 and 1000 hours with no rusting or blistering as per ASTM D610 and ASTM D714.

SCVD-FR

Supply - Steel Curved Vane Diffuser Fire-Rated

Furnish and install Price model SCVD-FR ceiling mounted diffusers of size and mounting types designated by the plans and air distribution schedule. Diffusers shall be Fire-Rated Assemblies listed in the UL, Underwriters Laboratories of Canada Equipment and Materials Directory. Diffusers shall meet UL time vs. temperature test criteria and NFPA 90A requirements. This design is intended for use in exposed grid suspended ceiling (T-bar Lay-in) with up to three-hour rating and must be installed in accordance with the installation instructions.

Diffusers shall consist of an outer frame assembly, which facilitates mounting in the application shown. A collar that allows connection to the square duct size indicated shall be an integral part of the assembly. The inner core assembly shall consist of individual adjustable steel curved vanes capable of producing the air flow discharge pattern indicated on the plans. Diffuser shall incorporate a non-adjustable butterfly-type ceiling radiation damper, a 165 °F [74°C] fusible link, and a non-asbestos thermal blanket. Finish shall be B12 white powder coat. Paint finish shall pass 500 hours of salt spray exposure with no measurable creep in accordance with ASTM D1654 and 1000 hours with no rusting or blistering as per ASTM D610 and ASTM D714.

Options:

- Volume adjustment for balancing
- 212 °F [100°C] fusible link
- Optional T-bar Lay-in Panel