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ARCHITECTURAL & PLAQUE DIFFUSERS



◀ **PRISM**
This supply diffuser features an arcuate faceplate. Center square appliqué offers nine standard colors to match interior décor.



◀ **PLQ & 5PLQ**
This supply diffuser features a square plaque faceplate.



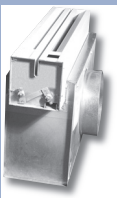
◀ **PLQR**
This supply diffuser features a round plaque faceplate.



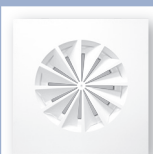
◀ **ASDT, 5ASDT, AVDT, & 5AVDT**
The ASD supply diffusers feature square ceiling tile faceplates. The AVD supply diffusers feature an integral, thermally powered thermostat with VAV control damper.



◀ **ASDP, 5ASDP, AVDP, & 5AVDP**
The ASD supply diffusers feature square plaque-style faceplates. The AVD supply diffusers feature an integral, thermally powered thermostat with VAV control damper.



◀ **LVSD**
LVSD Series linear VAV supply diffuser features an aesthetic appearance with zone temperature control. Self contained and powered; requires no electrical wiring.



◀ **KSD**
This architectural supply diffuser features a center swirl.

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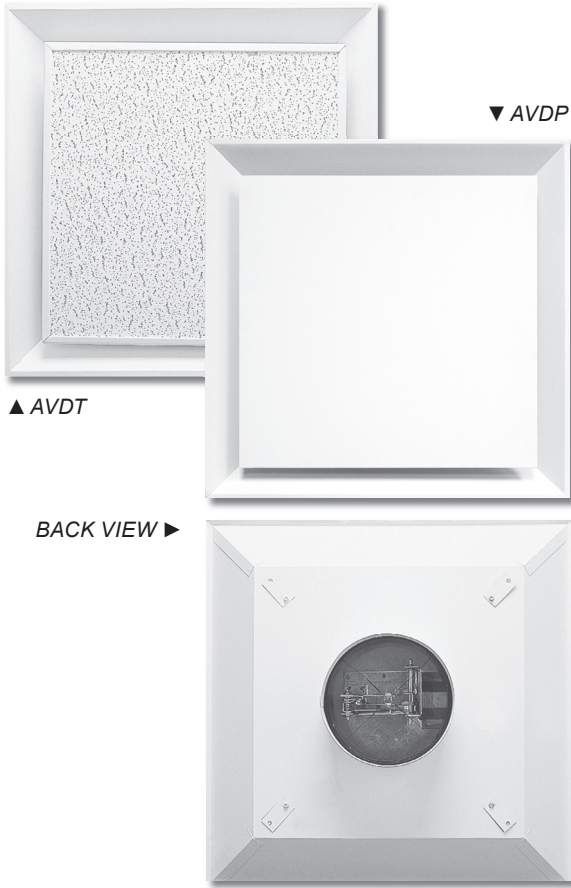
MODEL KSD

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AVDP/AVDT | THERMALLY CONTROLLED VAV DIFFUSERS

ARCHITECTURAL & PLAQUE DIFFUSERS



INTRODUCTION: AVDP/5AVDP/AVDT/5AVDT

The AVDP/AVDT architectural VAV diffuser provides an aesthetically pleasing appearance with zone temperature control. The AVDP diffuser provides a metal plaque face while the AVDT provides a frame that accepts a ceiling tile (by others) to form the plaque face. The diffusers discharge air horizontal to the ceiling causing secondary air circulation and mixing. The AVDP/AVDT is a totally self-contained and self-powered VAV diffuser that require no electrical wiring. The matching non-VAV diffuser for the AVDP is the ASDP while the matching non-VAV diffuser for the AVDT is the ASDT.

MODELS

- MODEL AVDP** - Steel, Plaque VAV Supply Diffuser
 - MODEL 5AVDP** - Aluminum, Plaque VAV Supply Diffuser *
 - MODEL AVDT** - Steel, Ceiling Tile VAV Supply Diffuser
 - MODEL 5AVDT** - Aluminum, Ceiling Tile VAV Supply Diffuser
- ▶ (*) Product contains steel components.

FEATURES

- Optional Warm-up to Provide Constant Volume Heating with Automatic Changeover
- Variable Discharge Area
- All Controls Accessible from Face of Diffuser

PANEL SIZE

- 12"x12" (AVDP/5AVDP Only)
- 24"x24"

FINISHES

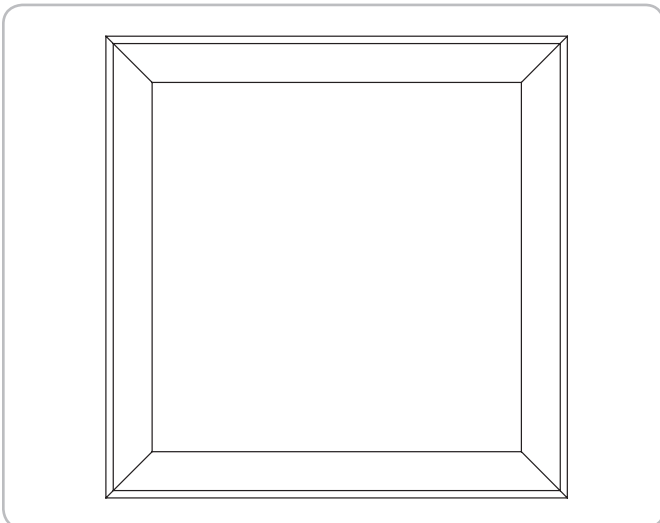
- Standard Finish is British White
- Optional Finishes Available

OPTION

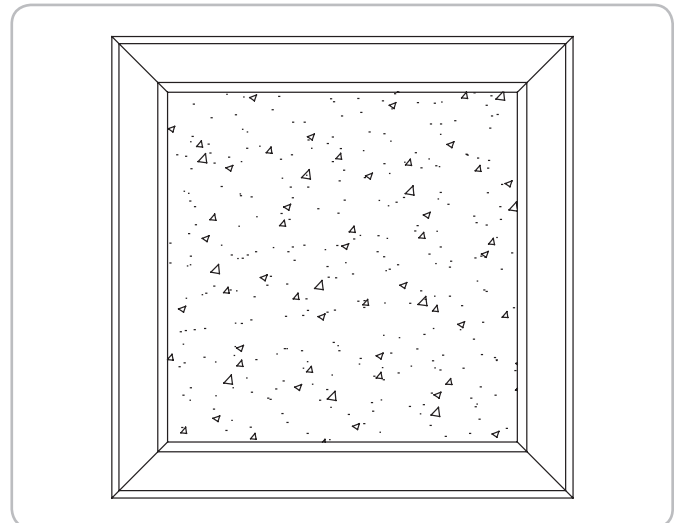
- Control for Constant Volume Heat

AVDP/5AVDP/AVDT/5AVDT DIMENSIONAL INFORMATION

▼ AVDP/5AVDP, FACE VIEW (PLAQUE STYLE)



▼ AVDT/5AVDT, FACE VIEW (CEILING TILE STYLE)



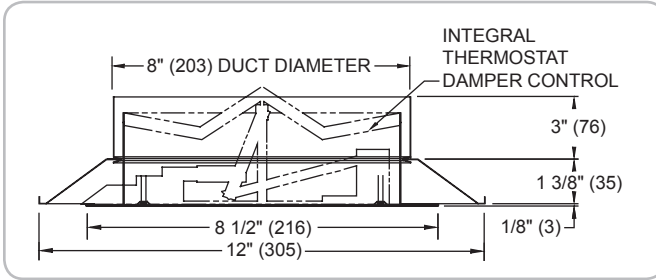
AVDP - AVDT

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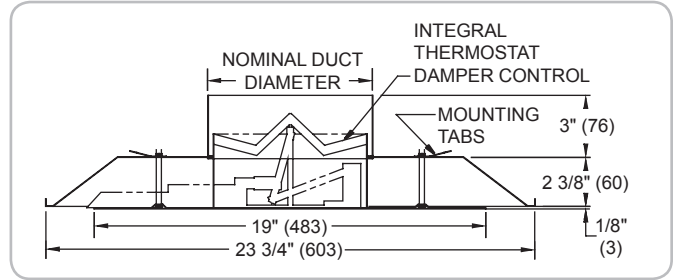
AVDP/5AVDP/AVDT/5AVDT DIMENSIONAL INFORMATION

▼ **AVDP/5AVDP, CROSS SECTION 12"x12" PANEL**

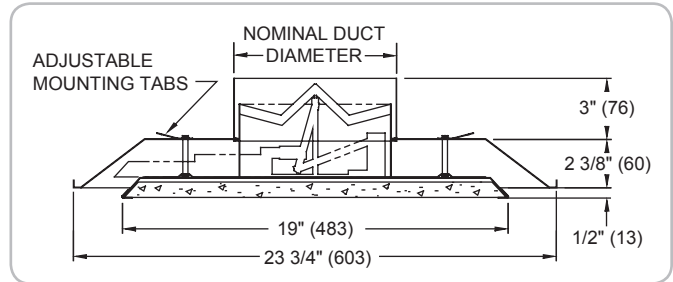


► Dimensions in () are mm.

▼ **AVDP/5AVDP, CROSS SECTION 24"x24" PANEL**

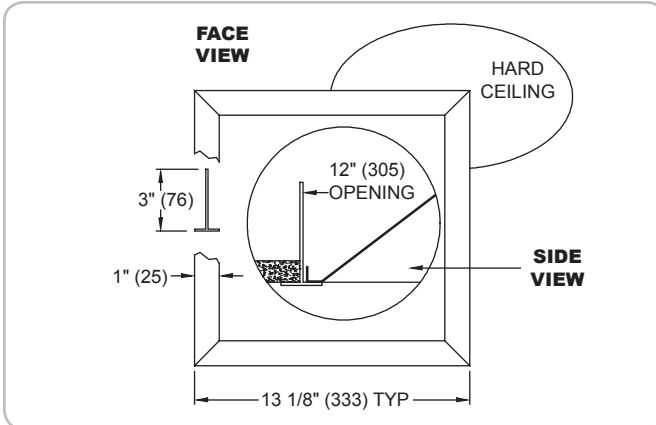


▼ **AVDT/5AVDT, CROSS SECTION 24"x24" PANEL**

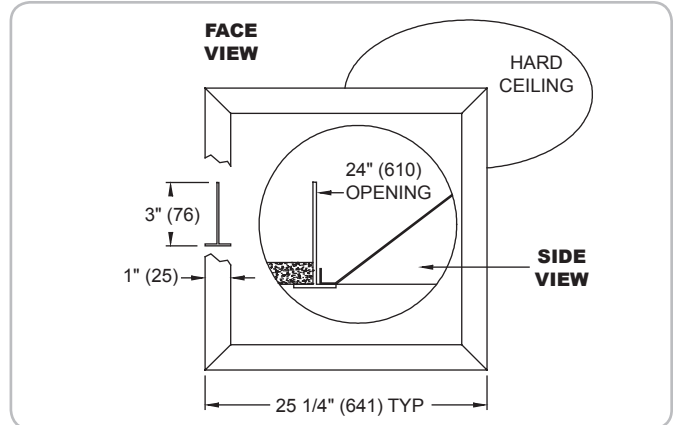


AVDP/5AVDP/AVDT/5AVDT ADAPTER FRAMES

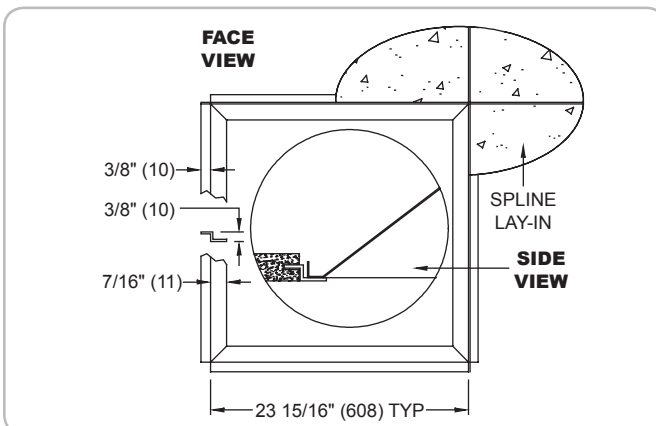
▼ **AVDP/5AVDP, FRAME 20, SURFACE MOUNT, ADAPTER FRAME 12"x12" PANEL**



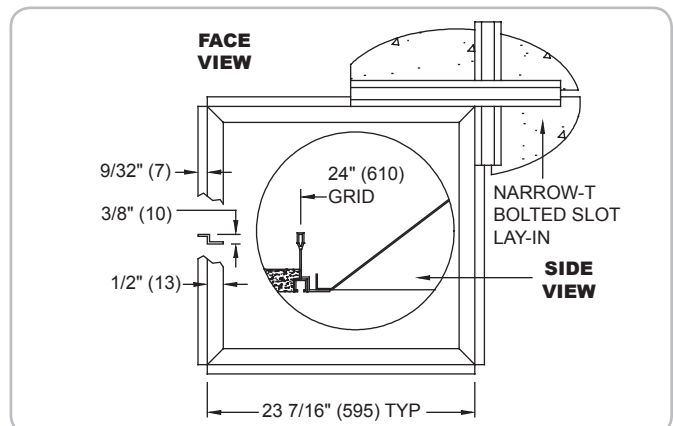
▼ **AVDP/5AVDP/AVDT/5AVDT, FRAME 20, SURFACE MOUNT, ADAPTER FRAME 24"x24" PANEL**



▼ **AVDP/5AVDP/AVDT/5AVDT, FRAME 27, SPLINE, ADAPTER FRAME 24"x24" PANEL**



▼ **AVDP/5AVDP/AVDT/5AVDT, FRAME 98, NARROW-T, ADAPTER FRAME 24"x24" PANEL**



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ARCHITECTURAL & PLAQUE DIFFUSERS

AVDP - AVDT



AVDP/5AVDP/AVDT/5AVDT SUGGESTED SPECIFICATION & CONFIGURATION

AVDP/5AVDP

The architectural VAV cooling plaque face diffuser shall be Krueger model AVDP (steel) or 5AVDP (aluminum) with integral thermally-powered thermostats and sliding sleeve type VAV control damper. Diffusers using disk, plate or diffusion blade type dampers will not be acceptable. The AVDP shall be constructed of 24 gage galvanized steel and the 5AVDP shall be constructed of 0.040" aluminum. The diffusers shall have a square face and round neck resulting in 360° discharge of air in the horizontal plane. The plaque face shall not exceed 1/8" drop below the ceiling plane. Temperature set points shall be field adjustable from the face of the diffuser through a temperature range of 70°F to 78°F.

An optional second thermal actuator is available to automatically change from VAV cooling to constant volume heating with field adjustable damper position from full open to any lower setting. Changeover actuation shall occur when the supply air temperature is 78°F or above for heating and 70°F or below for cooling.

AVDT/5AVDT

The architectural VAV cooling ceiling tile face diffuser shall be Krueger model AVDT (steel) or 5AVDT (aluminum) with integral thermally-powered thermostats and sliding sleeve type VAV control damper. Diffusers using disk, plate or diffusion blade type dampers will not be acceptable. The diffuser shall have an appearance panel consisting of a back pan and 4 flanged side plates with mitered corners for installing ceiling tile provided by the ceiling contractor. The AVDT shall be constructed of 24 gage galvanized steel and the 5AVDT shall be constructed of 0.040" aluminum. The diffusers shall have a square face and round neck resulting in 360° discharge of air in the horizontal plane. The appearance panel with ceiling tile installed shall not exceed 1/2" drop below the ceiling plane. Temperature set points shall be field adjustable from the face of the diffuser through a temperature range of 70°F to 78°F.

An optional second thermal actuator is available to automatically change from VAV cooling to constant volume heating with field adjustable damper position from full open to any lower setting. Changeover actuation shall occur when the supply air temperature is 78°F or above for heating and 70°F or below for cooling.

FINISH

The paint finish shall be British White.

1. **SERIES: (XXXXX)**
 AVDP - Steel Construction, Plaque-Style Face
 5AVDP - Aluminum Construction, Plaque-Style Face***
 AVDT - Steel Construction, Ceiling Tile Face
 5AVDT - Aluminum Construction, Ceiling Tile Face***
2. **INLET: (XX)**
 8"
 10"
 12"
 14"
3. **PANEL: (XX)x(XX)**
 12"x12" *
 24"x24" **
4. **DAMPER CONTROL: (X)**
 C - VAV Cooling Control
 H - VAV Cooling with Adjustable Constant Volume Heating Control
5. **FINISH: (XX)**
 01 - Mill
 10 - Alumican
 35 - Black
 44 - British White

► Reference page G-33 for adapter frame specification.
 (*) 12"x12" Panel only available with 8" inlet.
 (**) AVDT & 5AVDT only available in 24"x24" panel.
 (***) Product contains steel components.

ARCHITECTURAL & PLAQUE DIFFUSERS

AVDP - AVDT

SAMPLE CONFIGURATION: AVDP - 12 - 24x24 - C - 44