

SAS ARCHITECTURAL SQUARE

Excellence in air distribution is achieved with an accurate layout and diffuser selection to assure proper distribution, secondary air movement, and lack of drafts or "dumping".



The SAS "D" architectural square ceiling diffuser, like the standard SAS, is extremely flexible and economical to install. The diffuser is suitable for most types of force air systems in buildings utilizing T-Bar ceiling systems. This diffuser can be adapted to fit a variety of standard ceilings such as lay-in T-Bar, surface mount, and fine line as well as other specialty ceiling types.

This unit not only satisfies the architectural criteria, but also maintains the engineering requirements. The SAS "D", designed to accept a ceiling tile, allows the architect to match the existing ceiling tile pattern creating a harmonious appearance with the ceiling system.

The appearance panel consists of a back pan and four flanged side plates with mitered corners. This design simplifies the installation of the tile. In addition, the diffuser is equipped with a hinged panel and quick release latches, which reduce the time required for installing the tile. The ceiling tile may be installed before or after the diffuser is placed in the ceiling.

FEATURES

PERFORMANCE

- Positive Horizontal Discharge
- Quiet Operation
- Maximum Secondary Air Circulation

APPEARANCE

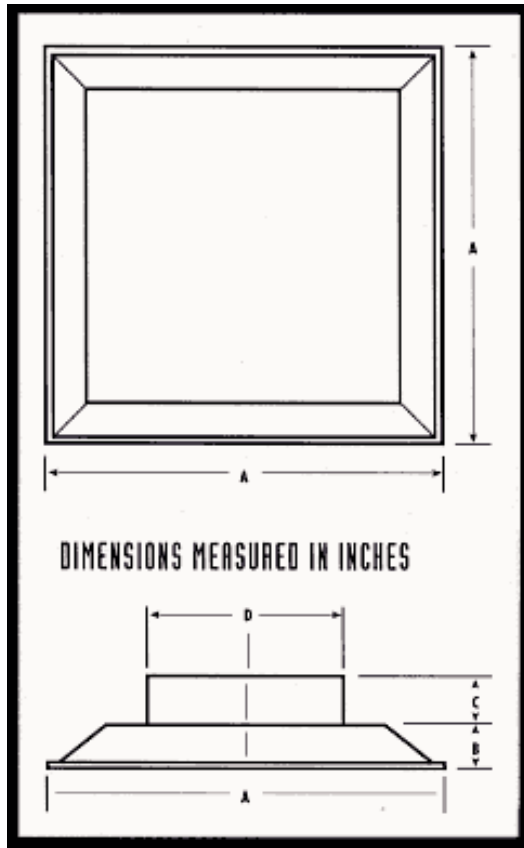
- Clean, simple, unobtrusive
- aesthetically pleasing

FLEXIBILITY

- Multiple Discharge Patterns
Fits modular ceiling systems (spline, plaster or fineline grids)
- Simple to relocate with occupancy changes
- Suitable for Low Temperature Distribution systems

ECONOMICAL

- Easy to install
- simple to Service



By its design, the SAS "D" always discharges the air horizontal to the ceiling which creates the "coanda effect," prevents drafts, and maintains maximum secondary circulation. Job conditions often change and diffusers become oversized resulting in the necessity for field adjustments. Opposed blade dampers, butterfly dampers, and other conventional dampering devices reduce the discharge velocity and can cause a dramatic effect on the diffuser performance, as well as increasing the sound level. The optional exclusive "ring damper" can insure the performance of the air distribution system, and offer flexibility beyond the design capabilities of standard diffusers.

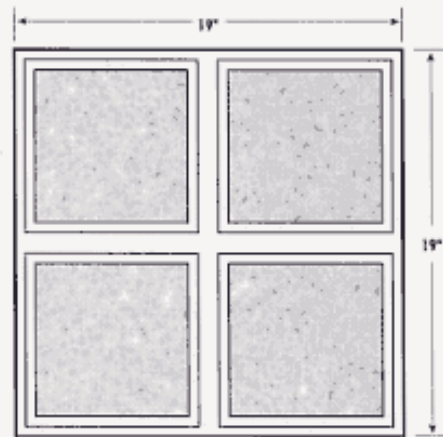
When the "ring damper" is adjusted from maximum to minimum, the A_k factor will vary. As a result, the adjusted diffuser will still maintain the discharge pattern, throw and secondary air circulation required to maintain the desired air distribution.

Optional baffle kits are available to alter the discharge pattern.

MODEL NUMBER

SAS	24	A	4	D	10	W
SAS Series	nominal size in inches	(A) appearance panel, (P) perforated face, (D) architectural appearance panel, (S) special	direction of discharge (4) four way	optional damper or blank—no damper	inlet size (06, 08, 10, 12, and 14) inches available	finish, (W) white, (B) black, (S) special
SAS Series Supply Air Square ceiling diffuser						

TRIMMED TILE DIMENSIONS



*Refer to Form No. VSF0194-140 for complete ceiling tile installation instructions.