

INTRODUCTION

Krueger's AFH displacement diffuser is intended to be mounted in a suspended ceiling installation or in applications requiring both cooling and heating. The diffuser is designed to produce a vertical low velocity displacement air pattern when supplying cool air or an adjustable high velocity pattern when supplying heated air. The diffuser switches from cooling to heating mode or vice versa with an electric actuator. When the AFH is in cooling mode, it discharges air evenly across the perforated face with minimal turbulence or induction of room air. The cool air falls slowly to the floor and gradually fills the space. When the AFH is in heating mode, it discharges air parallel to the face, towards the perimeter, with a high velocity jet.

The superior air quality and low noise levels make the AFH suitable for offices, classrooms, or any application where air quality demands are high, or where there may be minimal floor space and a requirement for both cooling and overhead heating must be met.

MODEL

AFH - Flat-Faced, Flush Mount, Lay-in T-bar,
Low-Velocity, Supply Unit

FEATURES

- 20 gage front panel.
- Dual plenum chambers allow heating/cooling changeover.
- Heating supplied by 1" Designflo® (DFL) linear slot diffuser with adjustable pattern controllers (available in 1-slot or 2-slot configurations).

PANEL SIZES

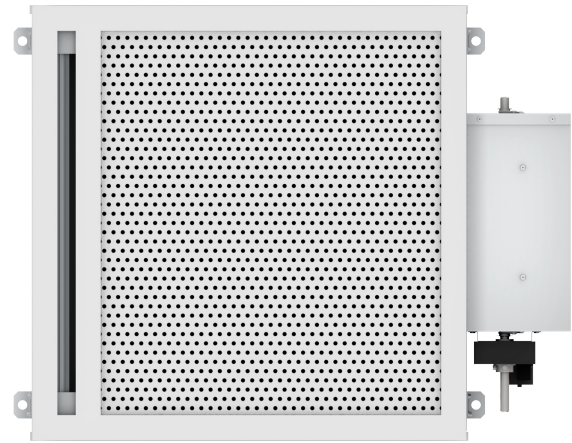
- 24" x 24" or 48" x 24"

OPTIONS

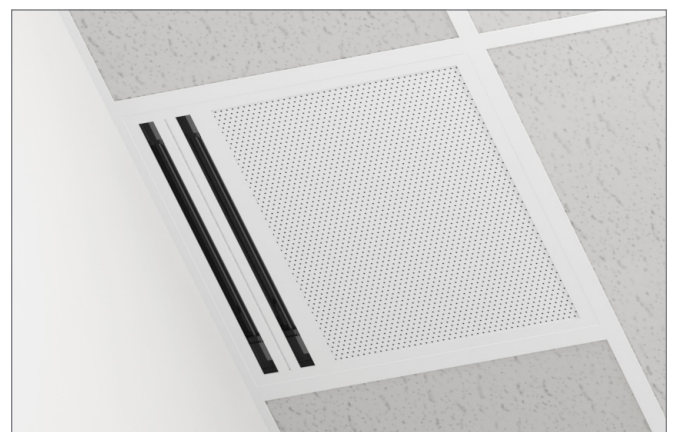
- Plenum Insulation
- Electric Actuator
- Inlet Probe

FINISHES

- Standard is #44 British White.
- Custom colors available.



AFH, featuring a 1-slot configuration.



AFH installed view, featuring a 2-slot configuration.

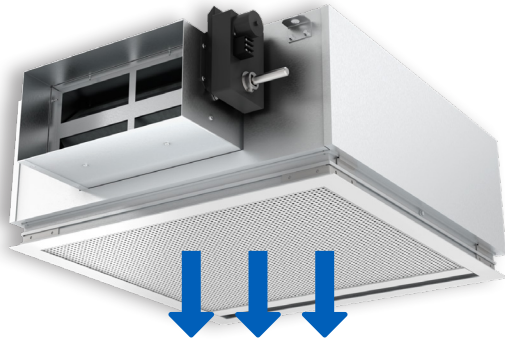
APPLICATION

FUNCTION

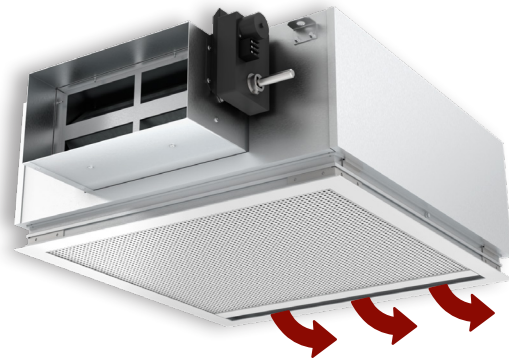
In cooling mode, low velocity air is discharged into the space through the perforated face, normally at a slightly lower temperature than setpoint. In heating mode, higher velocity air is discharged into the space through the linear slot diffusers, either one direction or two, normally at slightly higher temperatures than setpoint.

Cool supply air flows at floor level and gradually pervades through the occupied space before rising due to the convection of warm surfaces. Warm supply air flows downward along cold windows, tempering the air as it moves into the occupied space.

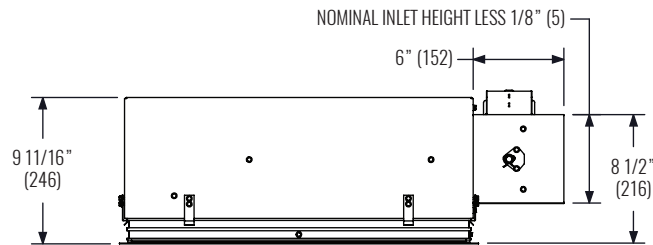
AFH IN COOLING MODE



AFH IN HEATING MODE



DIMENSIONAL DATA



| PANEL SIZE | INLET SIZES | |
|------------|-------------|-------|
| | DUCT SIZE | DEPTH |
| 24" x 24" | 6" x 6" | 6" |
| | 12" x 6" | |
| | 18" x 6" | |
| 48" x 24" | 24" x 6" | 6" |
| | 30" x 6" | |
| | 36" x 6" | |

