

VAV THERMAL DIFFUSERS

LAD GUIDE SPECIFICATION

THERMALLY POWERED CHANGE-OVER BI-DIRECTIONAL LINEAR DIFFUSERS

Diffusers are of the linear type with a thermo-mechanical powered actuator and automatic change over. Airflow pattern is a horizontal cooling to vertical heating operation when the supply air temperature changes from cool to warm.

The diffuser shall be rated on the air flow tests and sound level measurements in accordance with the applicable ADC and ASHRAE standards. The manufacturer shall certify the catalog performance data.

The cooling/heating change-over set points shall be field adjustable and factory preset at 60° F or less for cooling and 78° F or greater for heating.

The diffuser cooling opening shall have a round directional baffle to divert the supply air in the horizontal cooling pattern to limit the transition turbulence, pressure loss and noise generation.

The diffuser heating opening shall be field adjustable from 25% - 100% to increase the discharge velocity when required to obtain the design air throw.

The diffuser shall be housed in a factory fabricated (24 gauge) galvanized sheet steel plenum with 1/2 inch, 2 pound density insulation lining and an extrusion formed oval inlet duct connection to limit entry turbulence, pressure loss and noise generation.