SPECIFICATIONS

VTD

VTD Suggested Specification

The thermally powered VAV diffusers shall be the Tuttle & Bailey model VTD. The diffuser shall be thermally powered to vary the supply of air into the space in either heating or cooling mode, by means of modulating a variable aperture damper known as a control disc, vertically within the diffuser. Primary air from the diffuser shall be discharged horizontally in a 360° pattern. The thermal room sensing element shall be located behind an induction cap in the center of the diffuser panel and shall provide no more than 1°F thermal dead-band between induced temperature and zone temperature.

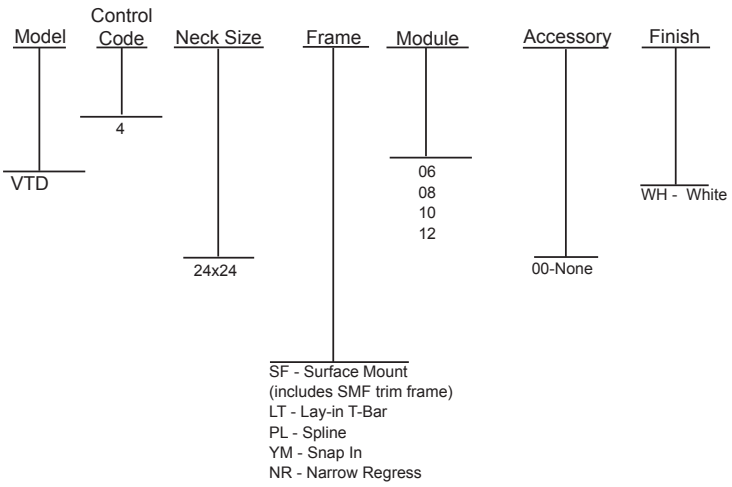
Each diffuser shall be individually adjustable to sense room temperature within the space between 68°F and 77°F. Each diffuser control disc actuating mechanism shall be individually adjustable for minimum airflow from 0 to 30%. Each diffuser is to be fitted with a single thermal supply air sensing element to automatically toggle between cooling and heating mode and be able to vary the supply of air into the space in either mode. Each diffuser shall be self-contained and require no external power source to maintain space temperature throughout the range of operation.

Ceiling diffusers shall be square, architectural, panel face diffusers. The diffuser shall have an unitary face panel mounted on a one piece, seamless back pan. The exposed surface of the face panel shall be smooth, flat and free of visible fasteners. The face panel cannot project more than 1/4-inch below the outside border of the diffuser back pan.

The diffuser neck shall have a minimum 1 1/8-inch depth available for duct connection.

Finish shall be an anodic acrylic baked type, baked at 315°F.

All test data shall be obtained in accordance with ANSI/ASHRAE Standard 70–1991, and ARI Standard 880–98. The diffuser shall carry an active ARI certification.



Example: VTD - 4 - 24x24 - LT - 08 - 00 - WH

Specialty Products