



Ceiling Module A	Nominal Round Duct Sizes B	С	D
610	125	29	92
	203	32	95
	254 , 303	35	98

Ceiling Module	Face Size	Nominal Round Duct Size	Border Type
610 x 610	610 x 610	125, 203, 254, 303	2, 3, 4, 5, NT

Other Available Border Types Check if provided.





Other Available Border Types – cont. Check ☑ if provided.











Control disc springs (A) must be disconnected from control disc (B) to ensure that the diffuser is in the fully open position for commissioning purposes.

After commissioning, ensure that each control disc spring (A) is attached to both the control disc (B) and the lever arm (C).

To adjust cooling temperature setpoint, turn adjustment ring (D) so that the center vertical bar lines up with the desired temperature.

To offset the temperature in heating mode, adjust the offset tab (E) in either direction.

Minimum airflow is set by using the grey ring (F). This is expressed as a percentage of maximum airflow. Full shut off is achieved by turning the grey ring (F) fully clockwise.

General Description

- The T₃SQ is a thermal variable volume diffuser. The diffuser maintains space temperature by varying the volume of air delivered to the space. The amount of air delivered will depend on the supply air temperature (SAT), the room temperature setpoint, and the room temperature.
- The T₃SQ is available heating and cooling configurations.
- As the volume of air is decreased by the control disc, the velocity of air is increased, thereby maintaining the longest throw and best entrainment. This insures superior air distribution at all damper positions.
- The curvature of the backpan works with the formed edges of the face panel to deliver a tight horizontal air pattern, without excessive noise or pressure drop over the full range of operation.

- The T₃SQ uses an induction plug to accurately measure the room temperature. This eliminates the need for a wall mounted thermostat or sensor and provides the most accurate way of measuring the room air temperature.
- The position of the control disc is varied by means of a wax filled thermal element which responds to changes in sensed temperature. The wax contained in the thermal element melts at the formulated temperatures to expand or contract the actuator assembly, modulating the control disc.
- When the wax cools down the actuator assembly retracts under the action of a return spring, causing the control disc to move in the opposite direction to counter the change in sensed temperature.

- Adjustment of the room temperature setpoint is achieved by rotating the adjustment ring. The adjustment ring has calibrated markings and the setpoint may be adjusted to suit individual requirements.
- Adjustment of minimum airflow is achieved by rotating the grey minimum airflow adjustment ring.
- The T₃SQ diffuser is designed to satisfy architectural, as well as, engineering criteria. The strong, clean, unobtrusive lines harmonize with the ceiling, without sacrificing performance. The standard finish is #26 White.
- The face panel and backpan are constructed from 18 gauge steel. The formed outer edge also assures a straight and level surface.

This submittal is meant to demonstrate general dimensions of this product. The drawings are not meant to detail every aspect of the product. Drawings are not to scale. Titus reserves the right to make changes without written notice.



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