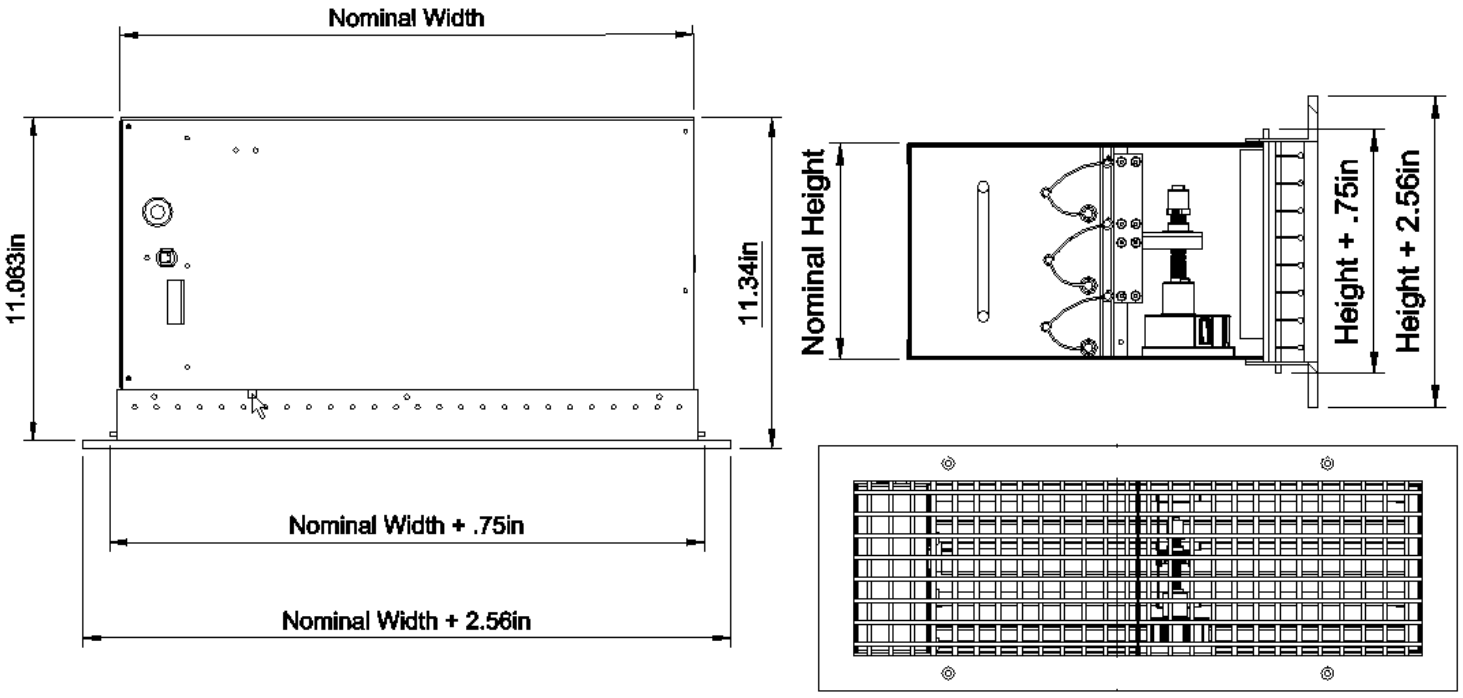
T_3 Series VAV Diffusers

Digital Controlled Sidewall-mounted Diffuser
Model: T_3SW

Model Configurations

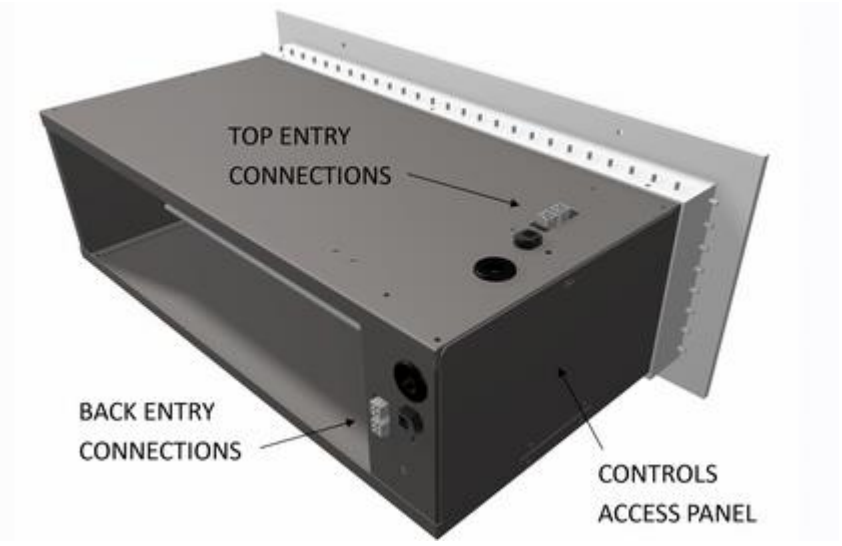
☐ T3SW-2



	Length (inches)										
Height (inches)	12"	14"	16"	18"	20"	22"	24"	26"	28"	30"	32"
4"	X	X	X	X	X	X	X	X	X	N/A	N/A
6"	N/A	N/A	N/A	N/A	X	X	X	X	X	X	X

Cable Connections

Depending on the installation, T_3SW's are available with top or back entry cable connections. Top entry is used when there is access between the wall and the duct. Back entry is used when there is only access through the duct. **NOTE: Top Entry and Back Entry connections are separate options.**

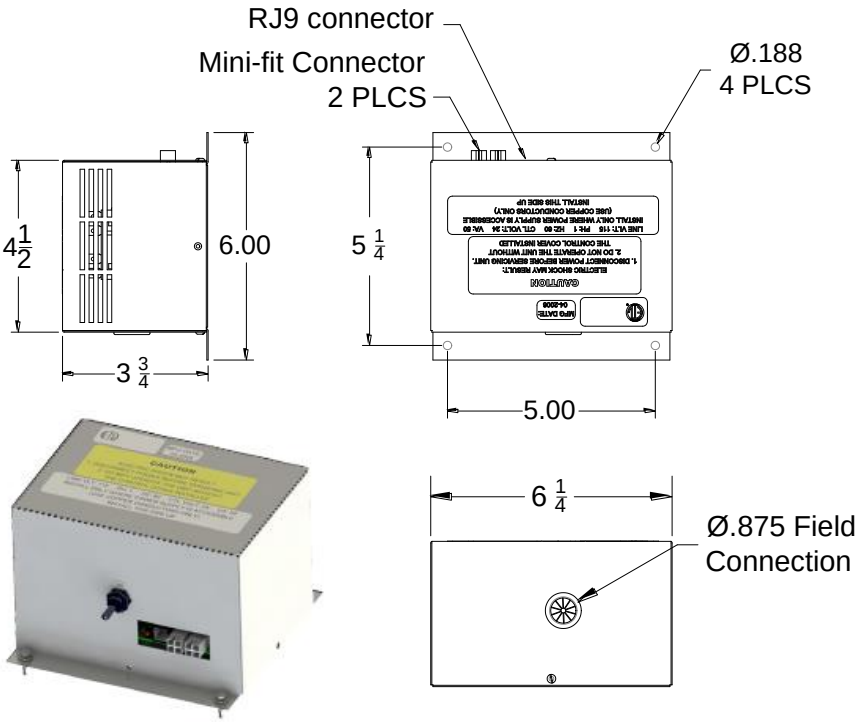


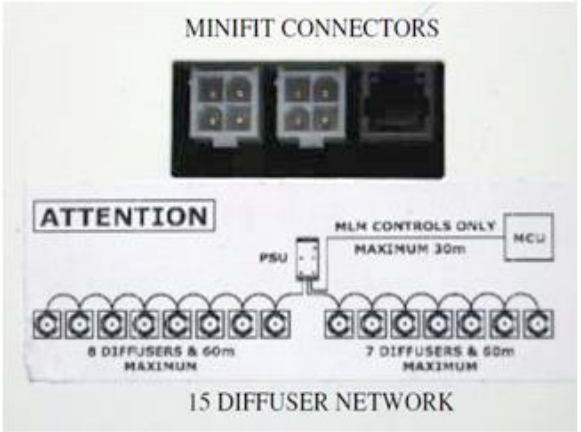
Optional Accessories

Check ☑ if provided.

☐ Power Module

- ☐ 120/24VAC transformer (T3PM120)
- ☐ 208/24VAC transformer (T3PM208)
- ☐ 277/24VAC transformer (T3PM277)
  - Power conditioner
  - One power module is required for every fifteen (15) master or drone diffusers without electric reheat or fourteen (14) master or drone diffusers with electric reheat.
  - 24VAC output to T_3SQ-M / T_3SQ-D diffusers.
  - Integral circuit protection protects the power module from shorts in the RJ-9 and mini-fit daisy chain cabling.





Power Module Wiring

- A total of 8 diffusers can be daisy chained off one connector and another 7 diffusers can be daisy chained from the other connector for a total of 15 diffusers.
- An RJ9 female connector is also provided on the power module. This connector allows the communication cable to link the maximum 15 diffuser network to the master communications module (MCM).

Optional Accessories

Check ☑ if provided.

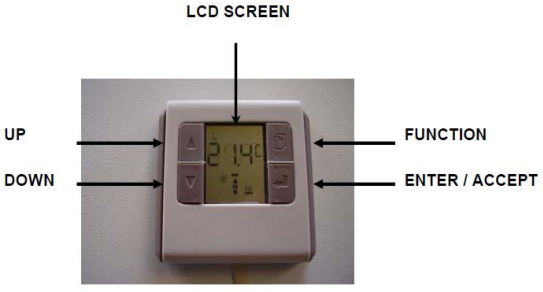
☐ Master Communciation Module

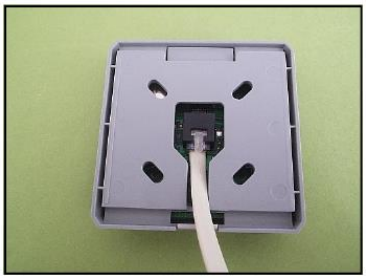
- ☐ MCMSA – Stand Alone
- ☐ MCMB1 – Bacnet (TCP/IP)
- ☐ MCMB2 – Bacnet (MS/TP)
- ☐ MCMLW – LonWorks

  - Available with Standard (Titus) communication module, BACnet, or Lonworks gateway
  - MCM Is the central data collection and distribution point for up to 60 VAV field diffusers per module.
  - Features four diffuser channel inputs which can accommodate up to 15 diffusers per channel.
  - Interface software is designed as a commissioning tool as well as for data monitoring, logging, and fault finding.
  - Software is supplied with each shipment.

☐ Controller / Thermostat

- Each T_3SQ-M master diffuser comes with a controller / thermostat.
- 24VAC RJ-12 control cable connection.
- Room sensor with LCD display
- Provides Setpoint Temperature adjustment & room temp display.
- Interfaces with a USB module in order to interface with software for further functionality.
- Dimensions are 3" x 3 ¼”





General Description

- The T_3SW-2 is a is electronically controlled through a 12V DC actuator capable of varying the supply of cold and warm air into the space by means of regulating a variable aperture damper, known as a control disc, vertically in the diffuser.
- Desired room temperature is maintained by varying supply air volume in accordance with demand. Volume control is achieved by opening or closing a set of aerodynamically shaped vanes so as to increase or decrease the aperture through which the air is discharged. This results in the “VARIABLE GEOMETRY” concept which effectively achieves constant air movement in the room throughout the control range from 100% down to as little as 25%.
- The position of the vanes is varied by means of an electric actuator driving the vanes in response to a signal from a temperature controller. When used in conjunction with an electronic controller, the T_3SW will control room temperature on a proportional/integral basis. Maximum and minimum supply air flow rates may be adjusted electronically on site to suit actual conditions.
- No regular maintenance of the T_3SW-2 is necessary. However, if the actuators or controls require inspection, the unit may be easily removed from its sidewall/bulkhead installation by merely removing 4 screws from the face of the grille and sliding the terminal unit from its unique built-in installation sleeve.
- Unit may be supplied complete with standard modular or BMS compatible electronic controls to provide accurate and reliable proportional -integral cooling and heating control to maintain a constant, comfortable room temperature.