

Helios Solar-Powered VAV Diffuser

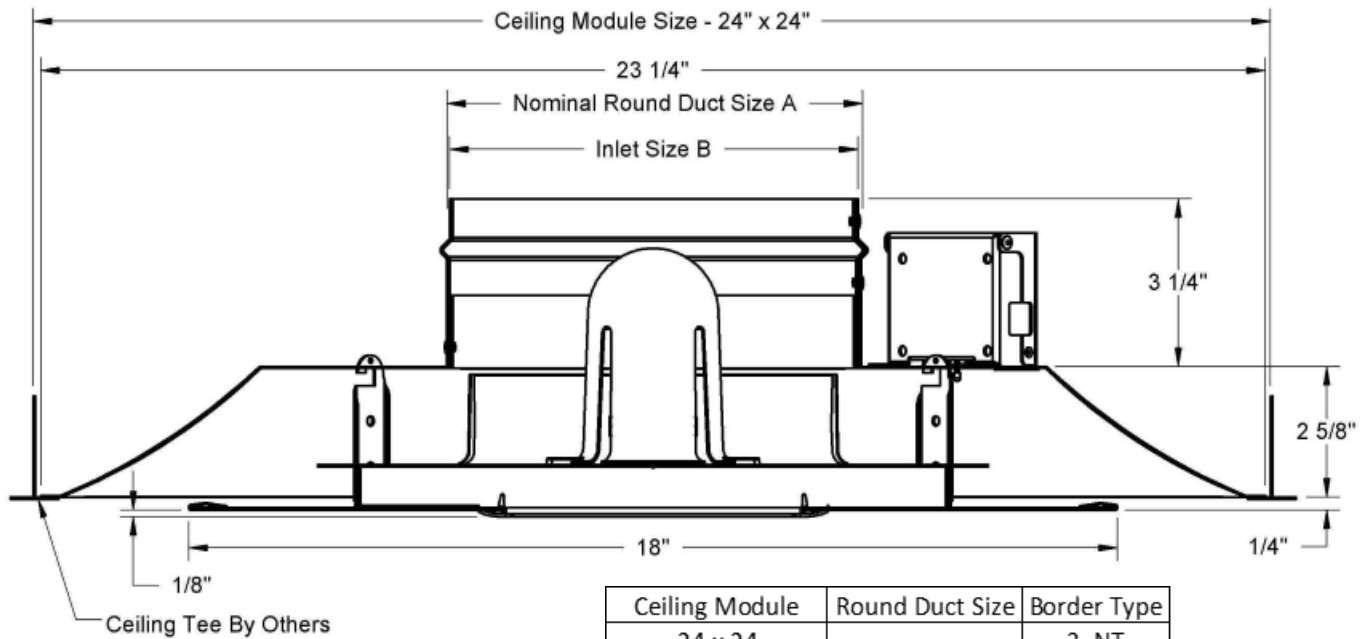
Digital Control • Steel • Square Plaque • Horizontal Pattern
Model: HELIOS



Model Configuration

HELIOS, 902 MHz

Border Type 3 (Lay-In)

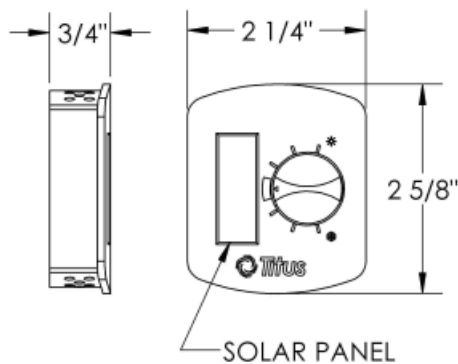


Dimensions are in inches unless otherwise specified.

Wireless Control

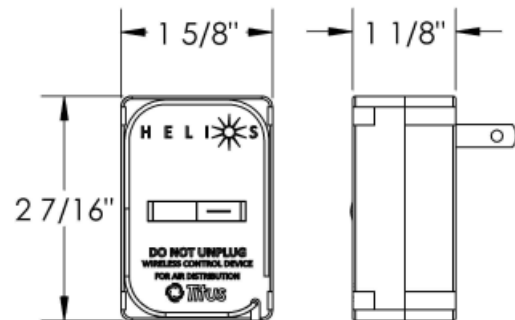
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Wall Sensor model STWN, 902 MHz



The light-powered wall sensor provides wireless control of the Helios diffuser.

Postmaster model TAPCU, 902 MHz



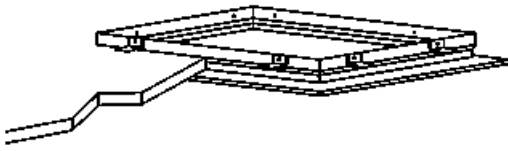
The plug-in postmaster facilitates wireless communication between the wall sensor and Helios diffuser.

The HELIOS can be wirelessly controlled by a solar powered wall sensor and a plug-in postmaster communication module. Single zones of up to 15 diffusers can be created by pushbutton pairing of the diffuser(s), wall sensor and postmaster.

Other Available Border Types

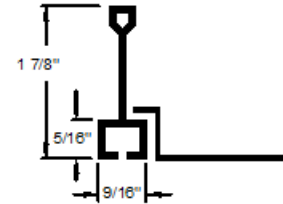
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TRM Rapid Mount Frame for Surface Mounting Applications.



The TRM frame is shipped separate for field installation. Once the TRM is installed, the HELIOS diffuser simply lays into the frame. This option allows access into the ceiling after installation.

Border Type NT (Narrow Tee)



Overview

Installing Face Panel

1. Insert the hook brackets into the slots in the backpan.
2. Rotate the face panel clockwise until...
3. The hooks positively engage in the secondary slots in the backpan.

Removing Face Panel

1. Lift the faceplate towards the back pan to disengage the hook brackets from the backpan slots.
2. Rotate the faceplate counter-clockwise.
3. Lower the faceplate away from the back pan.

General Description

The HELIOS is a solar-powered electronically controlled Variable geometry diffuser capable of varying the supply of cold and warm air into the space by means of regulating a movable actuator ring damper vertically in the diffuser.

Supply air from the variable geometry diffuser shall discharge horizontally in a 360° pattern and shall maintain air movement in the space throughout the range of volume variation from 100% to 25%.

- 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 position of the control ring is varied by lead drive screw actuator mounted on the control disc.
- A built-in auto-calibration feature ensures that the volume control damper position is always correct.
- The HELIOS diffuser satisfies 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 cold rolled 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.