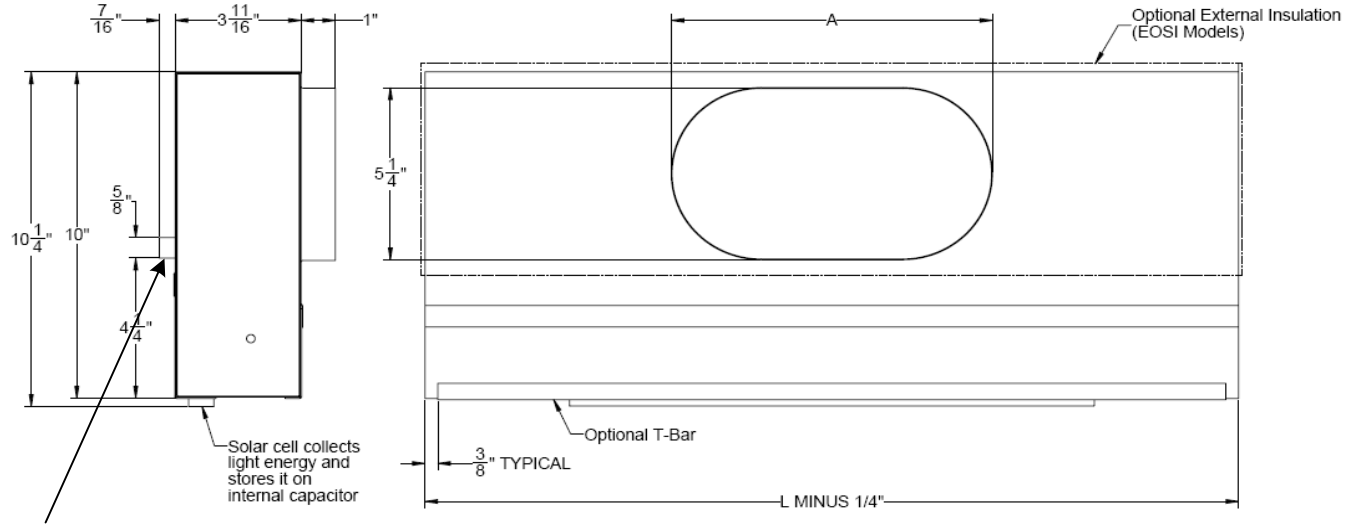
Plenum Slot Diffusers • Solar Powered
Auto Changeover • Bi-directional Air Pattern • Standard & Drone Option

EOS (ST) • Standard unit
EOSI (ST) • Standard Unit • Insulated
EOS (DR) • Drone Unit
EOSI (DR) • Drone Unit • Insulated

☐ **EOS/EOSI Standard Unit (ST)**

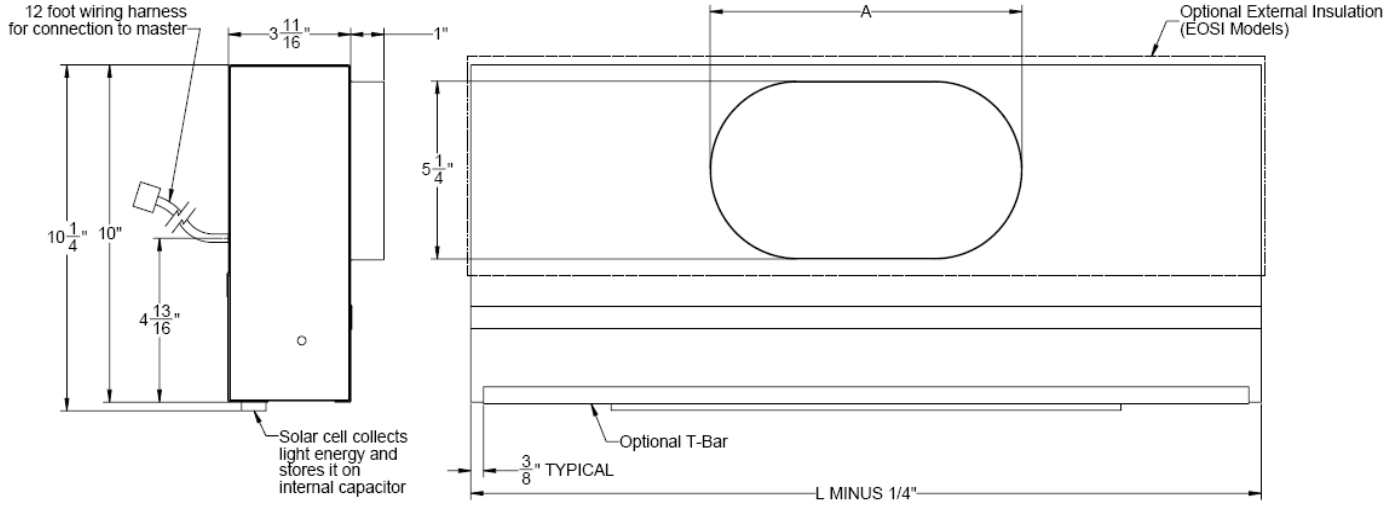


Molex connector comes standard on EOS ST model and is used to connect to Drone unit

Available Inlet Sizes (A)			
6" Oval	6-1/4"	10" Oval	12-1/2"
8" Oval	9-3/8"	12" Oval	15-9/16"

Nominal Length (L)	Available Inlets
24"	6", 8"
48"	10", 12"

☐ **EOS/EOSI Drone Unit (DR)**

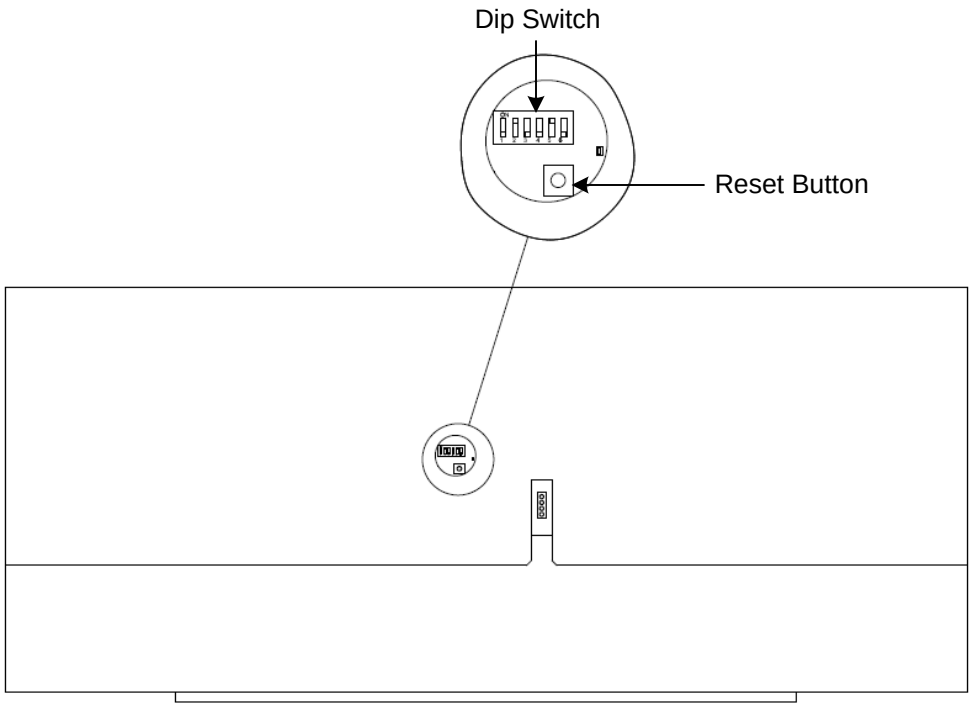


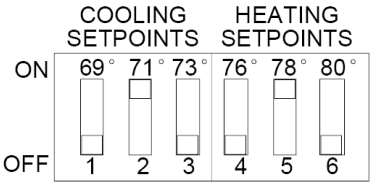
Available Inlet Sizes (A)			
6" Oval	6-1/4"	10" Oval	12-1/2"
8" Oval	9-3/8"	12" Oval	15-9/16"

Nominal Length (L)	Available Inlets
24"	6", 8"
48"	10", 12"

Note: All dimensions are in inches

Temperature Band Adjustment Details





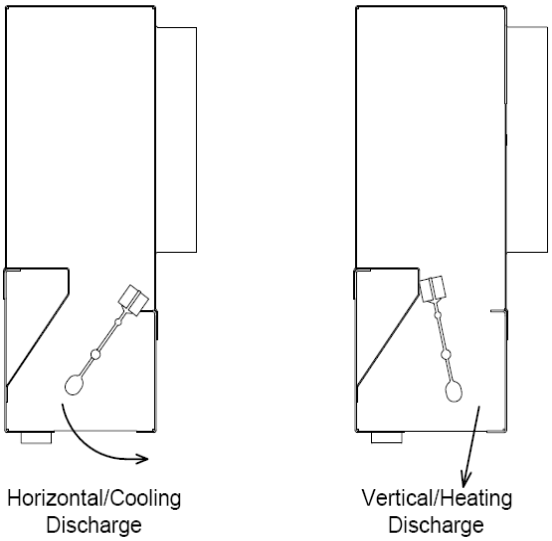
Procedure to adjust temperature band:

Locate dip switch (side opposite inlet). Remove plastic plug and set both cooling and heating temperatures to desired set-point. Only one cooling switch and one heating switch should be in the "ON" position. The remaining switches should be in the "OFF" position. After selecting set points, press "RESET" button.

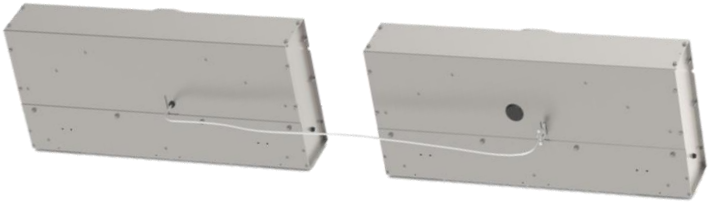
Note: Diffusers will ship from factory with the standard default temperature set-points of 71ºF and 78º F (shown in diagram above)

Initial Startup:
The EOS Standard (ST) & Drone (DR) units utilize solar energy harvesting to power the internal actuator and provide the auto-changeover action between cooling and heating blade positions. This is accomplished by exposing the diffuser to room or ambient light to charge the energy accumulator. In most cases, the solar cell will charge the energy storage device in the first few hours of operation.

Horizontal & Vertical Airflow Discharge Patterns



Master & Drone Configuration



Drone Unit Master Unit

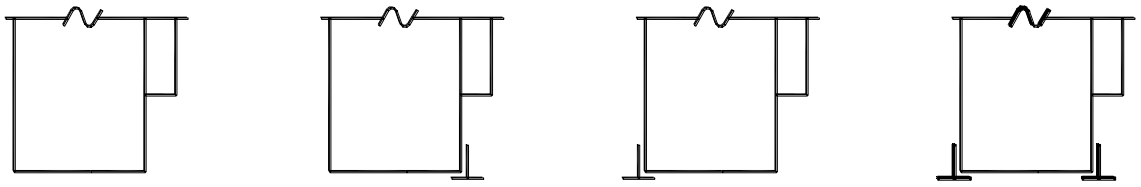
All EOS/EOSI-NT standard units (ST) are shipped with a molex connector for connection to the drone. All drone units (DR) are shipped with a factory mounted 12' cable for connection to the standard unit. To operate as a master-drone setup, simply connect the drone cable to the standard unit and set the temperature set-points for each unit. The standard unit will automatically detect the drone unit and start the master-drone operation mode. Drone unit does not have to be the same length as master. A 24" drone will work with a 48" master and a 48" drone will work with a 24" drone unit.

Accessories (Optional) Check ☑ if provided.

☐ External Insulation (EOSI)

Accessories (Optional) Check ☑ if provided.

Optional Factory-Furnished T-Bars



0
☐ No T-Bars

1
☐ One T-Bar, Inlet Side

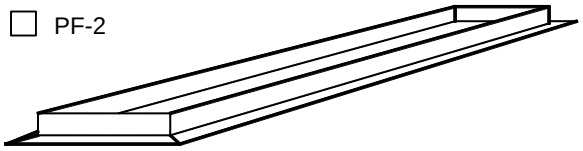
1L
☐ One T-Bar, Side Opposite Inlet

2
☐ Two T-Bars, Outside Edge

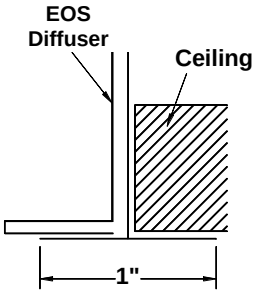
Note: Factory supplied outside T-bars are 1" wide.

Optional Slot Diffuser Plaster Frame

☐ PF-2



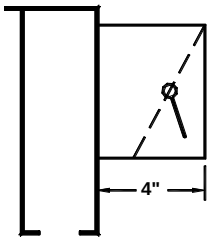
Opening in ceiling should be:
Length = Module plus ½-inch
Width = Plenum width plus ¾-inch



The PF-2 slot diffuser mounting frame can be used in sheetrock or plaster ceiling. The frame is mounted in the ceiling by others. The EOS is mounted on the inside lip of the frame. Plaster frame is 1 1/2" high.

Optional Inlet Damper

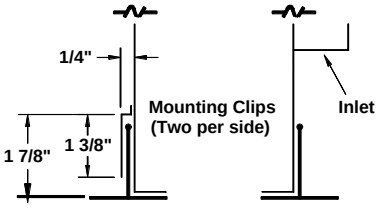
☐ ID (Shipped loose)



Optional Mounting Clips

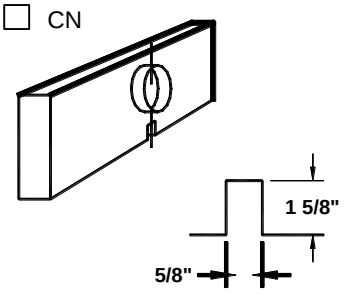
☐ MTC-1 (One side)

☐ MTC-2 (Both sides)



Optional Cross Notch

☐ CN



Standard Finish: #02 Black pattern controllers and exposed surfaces, white optional T-Bars.

General Description

- The EOS is an auto-changeover diffuser with a bi-directional air pattern for cooling and heating applications.
- Available in two styles: Standard (ST) & Drone (DR). The standard unit can function as a stand-alone unit or a master unit in a master-drone setup. The Drone comes with 12' attached cable for connection to master.
- The EOS ST & DR features energy harvesting technology from solar and ambient room light to power an actuator. Internal temperature sensors monitor supply air temperature and automatically adjusts the air pattern for horizontal airflow (cooling) or vertical airflow (heating).
- Diffuser should be installed at a maximum distance of 18 inches from exterior surfaces to prevent downdrafts in occupied zone.
- Operates on a narrow temperature band (71º F to 78º F). Each setpoint is adjustable in one increment of 2 degrees up or down for maximum flexibility.
- Smart logic programming on internal P.C. board checks supply air temperature in 10 minute intervals to ensure proper airflow direction is maintained for cooling and heating applications.
- Solar cell mounted on face collects light energy and stores on internal capacitor.
- Standard configuration includes 10-inch plenum height, 2-inch slot width and Earthquake tabs (2 per unit).
- Choice of three arrangements of optional factory installed T-bars.
- Optional plaster frame for surface mount applications.
- Optional external insulation (foil encapsulated).
- Material is steel with miscellaneous aluminum parts.