

ecostar esrp-4eh VERTICAL REFRIGERATOR LIGHTING





for 4" Lens Projection Depth

ESRP-4EH

WARNING



- The retrofit installation must only be performed by a licensed electrician.
- To prevent death, injury or damage to property this product must be installed in accordance to National Electric Code (NFPA 70) in the US or Canadian Electrical Code (CSA22.1) in Canada.
- Disconnect power before installing the product or servicing it.
- Use only with Class 2 power unit.

MODEL NUMBERS

This installation instructions covers the following products:

Power Supplies

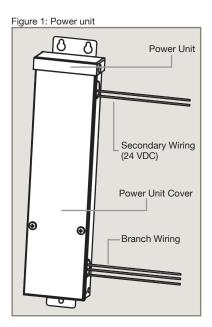
1. 100W Power Unit: PSA-24-100-LE

Luminaires

1. ESRP-4EH Series Luminaires

POWER UNIT INSTALLATION

- 1. Secure power unit (Figure 1) in suitable location.
- 2. Remove cover from power unit.
- 3. Connect secondary wiring (24 VDC) per local code according to supplied wiring diagram. Recommended cable is solid 18AWG NEC Class 2 cable.
- 4. Connect branch wiring per local code according to supplied wiring diagram. (Note: Minimum primary wire size is 16 AWG 300 Volt)
- 5. Power unit must be grounded using the green wire located in the primary wire cavity of the power unit.
- 6. Install power unit cover.









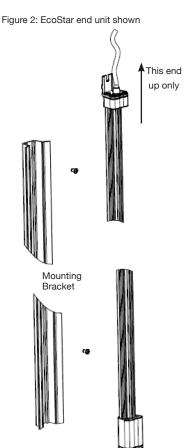
INSTALLATION INSTRUCTIONS

- 1. EcoStar uses one Mounting Bracket per unit mounted on the back side of the mullion, inside the cooler.
- 2. Secure Mounting Bracket with the base against and parallel to the mullion using two self-drilling screws positioned between the two ribs on the base of the bracket (Figure 2). Position screws vertically as far apart as possible with the screws located between shelves for easy access with a cordless screwdriver. Carefully move product on the shelf to provide sufficient clearance to work.

Note:

Center unit Mounting Bracket is bi-directional. End unit Mounting Bracket cut-off wing must be positioned in the direction of light.

- 3. Press the EcoStar unit into the Mounting Bracket "U" channel, between the two end caps of the EcoStar unit, with the lens portion facing inside the cooler. Verify that the EcoStar unit snaps tightly into the "U" channel of the Mounting Bracket. Note: Mount EcoStar system with wire end up.
- 4. See wiring diagram for EcoStar system wiring.
- Secure cable to the mullion and cooler walls.
- Repeat all steps for each EcoStar unit.
- 7. Energize.









POWER SUPPLY CONFIGURATION

1. Determine how many power supplies are needed.

Unit Type	Power Calculation (Watts)	Total Watts	Power Supply Quantity	
Center	1.9 x door height x unit quantity	Sum of Centers,	Divide Total Watts by	
Left end	1.2 x door height x unit quantity	Lefts & Rights	100, round up to nearest	
Right End	1.2 x door height x unit quantity		whole number	

2. Wire appropriate number of EcoStar units to each power supply.

Unit Type	Power Calculation (Watts)	Power Supply Loading
Center	1.9 x door height	Wire as many Centers, Lefts and Rights to
Left end	1.2 x door height	single power supply as long as total Watts is
Right End	1.2 x door height	less than 100

Example Calculation: 8-door, 6-foot case

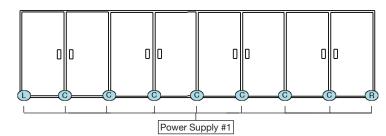
Unit Type	Watts/ Foot	Door Height	Unit Quantity	Total Watts
Center	1.9	6	7	117.6
Left end	1.2	6	1	11.4
Right End	1.2	6	1	11.4

94.2 / 100 = 0.94 (round up to 1)

Example Door Setup: 8-door, 6-foot case

8-Door

- 7 x EcoStar Center Unit
- 1 x EcoStar Left Unit
- 1 x EcoStar Right Unit
- 1 x Power Supply

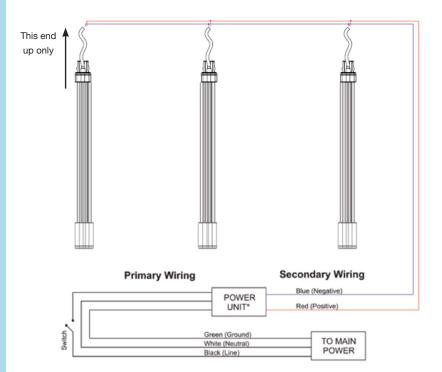


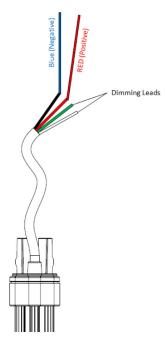






WIRING DIAGRAM





ESRP-4 Wiring

Power Supply Cable
Blue (Negative) - - - Black wire
Red (Positive) - - - - Red wire

Dimming Leads

Green - - - D+ White - - - D-





