

SOL-A-VENT SOLAR POWERED ROOF VENTS



Installation Instructions

STEP 1: Before installing the Sol-A-Vent set the appropriate desired angle of the solar panel relative to the roof pitch by, 1) turning the vent stack on its base and by 2) rotating the top section of the adjustable seam. You will likely need to loosen the (4) slotted bolts on the vent stack sides to rotate the upper panels freely on the base flange.

STEP 2: For flat (horizontal) roof installation: Prepare an opening in the roof membrane and an 8" opening in the roof insulation. Install the Sol-A-Vent beneath the roof membrane but on top of the insulation. Secure with nails or screws if appropriate. Flash in the base according to standard details for the roof membrane in use.

For a steep roof installation: After step 1 prepare an 8" opening in the roof deck to access the area to be vented. Attach the vent to the deck with screws or nails and make final adjustments to the desired angle of the Sol-A-Vent panel. Re-tighten the (4) slotted bolts and then flash in the vent base appropriately.

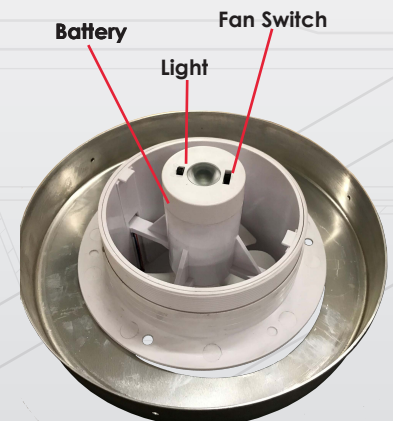
Battery Specifications: Capacity: 2500mAh Voltage: 4.8V

Switch Operation

The Day/Night features two switches located on the bottom of the battery compartment. The three-position fan switch can be set to **IN 'Intake'**, **OUT 'Exhaust'**, or **'Off'** positions. **OUT EXHAUST** is normally used with one vent on a roof deck. This allows the movement of air out of your roof system. If you use multiple vents then you can use a combination **IN INTAKE** and **OUT EXHAUST**. This allows air to be moved in and out of the roof system if needed. The second switch controls 'On'/'Off' operation of the LED accessory light. **SWITCH MUST BE TURNED ON BEFORE INSTALLING VENT ON ROOF DECK.**

Rechargeable Battery

Each Day/Night vent is equipped with a built-in replaceable battery. The solar array keeps the battery charged during daylight hours so that it can run the fan at night and during low light situations. The Day/Night will run for up to 24 hours without sunlight on a fully charged battery. Average battery life is 3-5 years, depending on climate conditions. **The battery can be replaced by removing the three screws on the side of the aluminum stack. This allows you to remove the entire top of the solar vent to be able to access the solar battery. Then carefully unscrewing the switch housing which acts as the battery compartment cover. Be careful not to pull the**



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the wire leads from the battery compartment cover. Unplug the wire leads connecting the battery pack to the switch housing, and remove the battery pack. Take care not to over-stress the wire leads when reinstalling the battery compartment cover.

NOTE: To maximize battery life, make sure it is fully charged as possible during initial use. To fully charge, expose vent to the sun, (not a light bulb) for 24 to 36 hours. This will insure a fully-charged battery. (Depending on angle to the sun, weather conditions, and shadowing of the solar array, the time necessary to charge the battery may vary).

MAINTENANCE

Your Day/Night Vent is a maintenance-free ventilator. However, it is recommended to periodically clean the solar array with a mild cleaner to ensure the vent charges continuously and receives maximum sunlight. If after a few years of operation, the battery is no longer performing at peak performance, replace it with part N20890—NiMH Replacement Battery Pack. The battery can be replaced by carefully unscrewing the switch housing which acts as the battery compartment cover. Be careful not to pull the wire leads from the battery compartment cover. Unplug the wire leads connecting the battery pack to the switch housing, and remove the battery pack. Take care not to over-stress the wire leads when reinstalling the battery compartment cover.

Trouble Shooting—Day/Night Vent Stops Running:

- Check the On-Off Switch—Make sure the switch is on.
- Check the Solar Array—Make sure the solar array has adequate exposure to sunlight and is not in a shaded area.
- Check/Replace the Battery—If the switch is on and the vent is not working, the battery may be dead. A dead battery short circuits the solar array and will not deliver power to the motor. Test the vent without the battery in it by placing the array in direct sun to see if the motor turns (make sure the switch is on). If the motor turns, the battery is dead.

NOTE: The vent will work without the battery, but only during sunlight hours.

- Check the Solar Array & Fan Motor
If the motor still did not turn when the battery was removed, either the array is damaged or the motor does not work. Contact Technical Service for warranty concerns – 800-828-8424.