

Introduction to Solar Powered Ventilation

SunCooler™ by NWREC / A Ventilation Technology for Maximum Energy Savings

SC15KD Solar Axial Ventilation Roof Fan Patented



Save Up To 30% on HVAC Energy Costs Solar Powered Off-Grid Ventilation
All in One unit: Induction, Exhaust, Recirculation, Destratification, Ceiling Fan

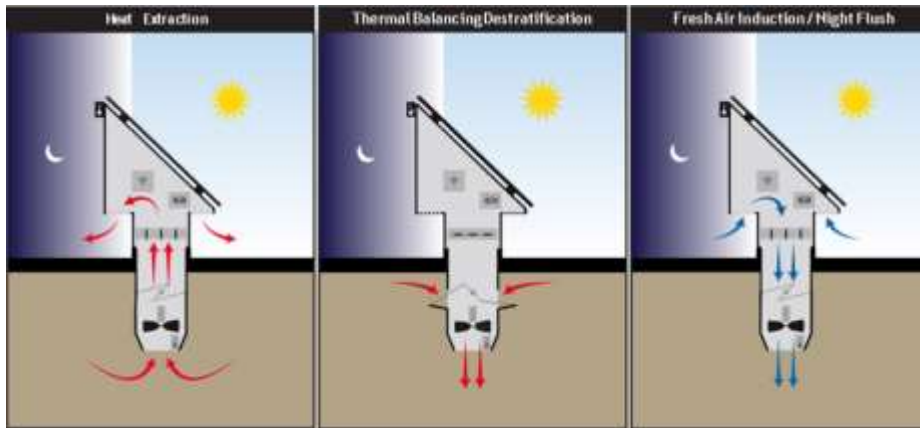
Description

- Off-Grid, solar powered, no wires to run, no grid connection
- Day and night operation
- Wi-Fi and/or USB control: Program/schedule upload
- Bi-directional Air flow handling including outdoor fresh air induction exchange
- Indoor/Outdoor environmental sensing operation: Temp/Humid/Co2/Occupancy
- 100% energy savings over grid powered fans
- DC powered, performance data logging,
- CFM up to 15,000
- Out performs any ceiling fan....*Ceiling fans are limited to indoor air circ.*
- Optional Low decibel rating for classroom setting

Primary functions of the SunCooler Ventilator:

- **Heat Extraction Exhaust:** Evacuates hot ceiling air; smoke, gases, VOCs, contaminants, etc.
- **Thermal Balancing Destratification:** Redirects warm, risen air at the ceiling back down to the floor.
- **Thermal Balancing with Fresh Air Mix:** Same as destratification plus controlled fresh air induction
- **Fresh Air Induction Night Flush:** Injects cool outside nighttime air into the building

Illustration of main functions:



[A New Standard in Energy Conservation](#)

[Achieve Your Energy Conservation Goals](#)

[Reduces HVAC runtime up to 30%](#)

SunCooler Customers

- Army National Guard
- Federal Bureau of Prisons
- Defense Logistics Agency
- Target Corporation
- The State of Oregon
- In Service over 15 years

SunCooler sizes:

2500 CFM

Classrooms, Bathrooms, High Occupancy Spaces

15000 CFM

Distribution Centers, Large Bay Commercial, Industrial Ventilation



SunCoolers are manufactured in Oregon by NW Renewable Energy Corp.

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