

SunCooler™ Tech Specs 2015

The following specifications and performance data provided for the SunCooler™ *Patent Pending* Solar Powered Rooftop Ventilator and Destratifier, is proprietary and is the exclusive property of NWREC. This information is made available for the exclusive use and purpose of evaluating unit performance characteristics in the determination of suitability for applicational use by perspective customers, architects, engineers and building owners. Copyright NWREC 2015©

Quick Install Curb Adapters Available To Install The SunCooler Ventilator Onto Your Existing Roof Curb.

- Stock and Custom Sizes for All SC Models
- Flat or Pitched Roofs
- Dampers Are: Motorized with Spring Return, Low leakage rated or AMCA Class 1A Seal Rated.

SunCooler™ Base Model Specifications:

- SC1000 24vdc. Exterior Mounted Waterproof Disconnect Switch
 - Air handling capability up to 1000 cfm .125 SP
 - Single Photovoltaic Module High Efficiency Multi-crystalline 120 watt 4 amp
 - Propeller: 12" four blade
 - Fan Motor speed: up to 900 rpm variable
 - Safety shutdown thermal fuse 180F
 - Weight: 100lbs Base Model. W/options < 200lbs
 - Roof Curb Mounting Dimensions
 - Max curb OD without use of curb adapter: 19.75" sq. (min. 18.5") W/O Destratifier
- SC2500 36vdc. Exterior Mounted Waterproof Disconnect Switch
 - Air handling capability up to 2500 cfm .125 SP
 - Single Photovoltaic Module High Efficiency Mono-crystalline 285 watt 8 amp
 - Propeller: 16" four blade
 - Fan Motor speed: up to 900 rpm variable
 - Safety shutdown thermal fuse 180F
 - Weight: 150lbs Base Model. W/options < 250lbs
 - Roof Curb Mounting Dimensions
 - Max curb OD without use of curb adapter: 23.75" sq. (min. 22.5") W/O Destratifier
- SC15,000 48vdc. Exterior Mounted Waterproof Disconnect Switch
 - Air handling capability up to 15,000 cfm .125 SP
 - Triple Photovoltaic Module High Efficiency Mono-crystalline >1000 watt 30 amp
 - Propeller: 36" five blade
 - Fan Motor speed: up to 700 rpm variable
 - Safety shutdown thermal fuse 180F
 - Weight: 300lbs +, Base Model. W/options < 1000lbs
 - Roof Curb Mounting Dimensions
 - Max curb OD without use of curb adapter: 45.75" sq. (min. 44.5") W/O Destratifier

SC Unit Constructed Material specs:

Upper Housing Structure Materials:

- Housing: .050" 5005-H32 Commercial Clear Anodized Aluminum
- Fasteners Stainless Steel
- Removable Service Access Panel

Upper Housing Interior Components:

- All Items Plenum Rated
- SC Control Box Sealed from Plenum Air and is Vented to Outside.
- Battery Box Sealed from Plenum Air and is Vented to Outside

Lower Base Housing:

- Powder Coated 16 gauge Galvanized Steel
- Screen Vent 1/2" mesh Poly Coated Hot dipped Galvanized

Optional Destratifier Housing Unit:

- Housing: .050" 5005-H32 Commercial Clear Anodized Aluminum

Confirm fastener attachment requirements to roof curb and roof curb to roof deck through your local structural Engineer.

