

Solaro Aire™

Solar Powered Attic Ventilation System

Features & Benefits

MAX AIRE™ MOTOR

- Brushless Electronic Motor with Maximum Yield Technology. This new motor technology was developed by Solaro Energy. Our engineers leveraged lessons learned from our original brushless electronic motor that we used for over 12 years. This new motor technology offers about 30% better efficiency and air moving performance, with an amazing 100,000 hours average motor run time! That's about 25 years of system operation time!
- Solaro Max Aire™ Motor specs: 0 to 19 VDC power input Minimum of 10 watts to a maximum 50 watts current input.



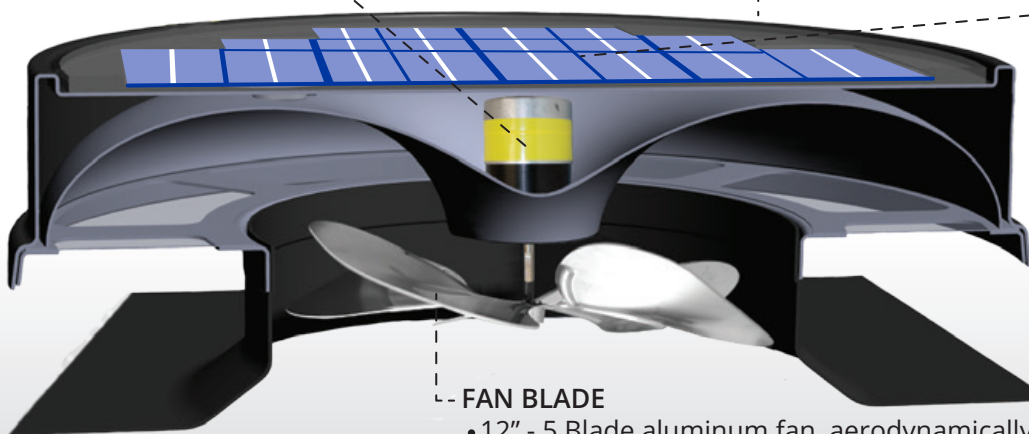
**Solaro
Max Aire Motor™**
Maximum Efficiency Yield Technology

FAN HOUSING

- Encases the Max Aire™ Motor and all electrical components to eliminate moisture and corrosion.
- Seamless construct (no potential leaks)
- Aircraft grade spun aluminum
- Powder-coated finish for durability and curb appeal
- Will not rust or corrode
- 100% Fire Proof- Entire System

SOLAR PANEL

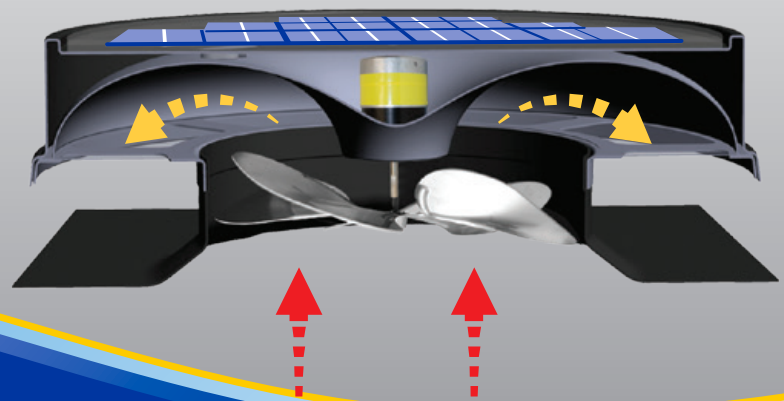
- Unique proprietary design
- Embedded into the unit for maximum beauty and performance
- Low iron - High transmission tempered glass
- High efficiency mono-crystalline solar cells
- Completely stand alone, no wiring required
- Works right out of the box



FAN BLADE

- 12" - 5 Blade aluminum fan, aerodynamically optimized blade to improve airflow.
- Specifically designed for the Solaro Aire™ solar powered ventilation system
- Highest airflow efficiency
- Will not bend or create vibrations
- Operates whisper quite throughout the day

ActiveAire
Technology



The Solaro Aire™ is the only attic fan in the industry to feature Active Aire™ Technology. Specifically designed to guide air through the fan without any obstructions, preventing objects from getting trapped inside the housing causing the motor to overload. This advanced system of uniquely engineered curves extracts the air out of your attic like no other fan, creating a more efficient airflow. With Active Aire™ Technology, you can expect the highest airflow out of any attic fan on the market today.

As the sun begins to rise, your Solaro Aire™ kicks into gear. Working along side the fan blade and motor, Active Aire™ Technology creates a smooth, aerodynamic exit path through the fan's housing. By utilizing these calculated curves, your attic fan can run all day at it's full potential. Extracting the maximum amount of air from your attic.

Solaro Aire™

Solar Powered Attic Ventilation System

REMOTE Features & Benefits

MAX AIRE™ MOTOR

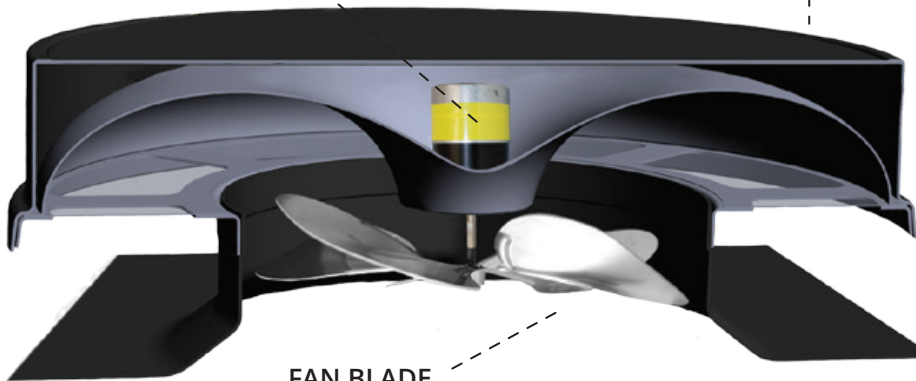
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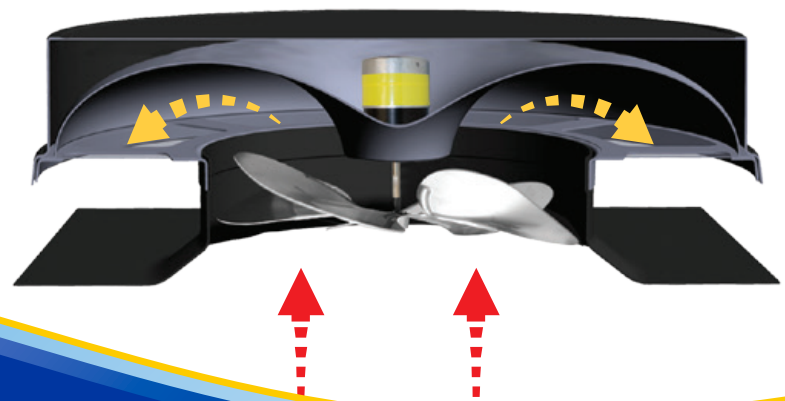
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SOLAR PANEL

- 27watt, 37watt & 40 watt
- Mono-crystalline cell
- High transparent, low iron tempered glass
- Weather proof in most severe conditions



Active Aire
Technology



The Solaro Aire is the only attic fan in the industry to feature Active Air Technology. Specifically designed to guide air through the fan without any obstructions, preventing objects from getting trapped inside the housing causing the motor to overload. This advanced system of uniquely engineered curves extracts the air out of your attic like no other fan, creating a more efficient airflow. With Active Air Technology, you can expect the highest airflow out of any attic fan on the market today.

As the sun begins to rise, your Solaro Aire kicks into gear. Working along side the fan blade and motor, Active Air Technology creates a smooth, aerodynamic exit path through the fan's housing. By utilizing these calculated curves, your attic fan can run all day at it's full potential. Extracting the maximum amount of air from your attic.

Solaro Aire™

Solar Powered Basement System

SA-37W-BVS2

Features & Benefits

All year round, your home needs to be ventilated. This includes all areas of the home as well as the basement. With the Solaro Basement System, you can circulate the air from the living space to the basement that will lead the air to the outside. This helps prevent stale air that can cause bad odor. The basement system operates at 550 CFM. Other problems from stagnant air can cause mildew build up, mold, or bugs that seek out damp and warm areas. With this system ventilating up to approximately 116.1 sq.m. it can make your home healthier and smelling cleaner. This unit not only clears the air it also helps with naturally occurring radon gas.



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Minimum of 10 watts to a maximum 50 watts current input.

DAY/NIGHT SWITCH

- Designed to operate the Solaro Aire ventilation systems, completely on solar power during the day and uses converted AC grid power at night, or in inclement weather. Using the Decora switch, it allows the user the ability to completely turn off the fixture or unit between solar power and converted grid power via DC power supply. This allows the grid to act like a battery.

SOLAR PANEL

- 27, 37 or 40 Watt high efficiency mono-crystalline PV module. Normal 18V DC for standard output. Outstanding low-light performance. Heavy Duty anodized frames. High transparency, low-iron tempered glass. Rugged design to withstand high wind pressure, hail and snow. Aesthetic appearance.



FAN HOUSING

- Encases the Max Aire™ Motor and all electrical components to eliminate moisture and corrosion.
- Seamless construct (no potential leaks)
- Aircraft grade spun aluminum
- Powder-coated finish for durability and curb appeal
- Will not rust or corrode
- 100% Fire Proof- Entire System

FAN BLADE

- 12" - 5 Blade aluminum fan, aerodynamically optimized blade to improve airflow.
- Specifically designed for the Solaro Aire™ solar powered ventilation system
- Highest airflow efficiency
- Will not bend or create vibrations
- Operates whisper quiet throughout the day



ActiveAire
Technology



MAXIMUM EFFICIENCY: Our advanced solar powered Basement Systems are not only easy to install and maintain, but are highly developed and extremely efficient. Making them the most effective basement system on the market! Day/Night KIT is also available. The basement system can keep you and your home healthy by circulating the air nonstop. This functionality provides insurance that it can prevent stale air and molds forming in the basement. Also, the Solaro Basement Ventilation System is a powerful remover of harmful Radon gas.

Solaro Aire™

Solar Powered Crawlspace System

SA-37W-CS Features & Benefits

Throughout the year, the crawl space of your home or office building can collect moisture, heat, and radon gas. The Solaro Aire™ Crawl Space Ventilation System can help prevent all of those naturally occurring elements from destroying your home. The crawl space ventilation system is great for ventilating up to 1,000 sq. ft., this system ventilates moisture that would otherwise cause mold build up and rot your floor from the bottom up. Ideal for crawl spaces located under mobile homes or other residential areas that have a crawl space under the home.

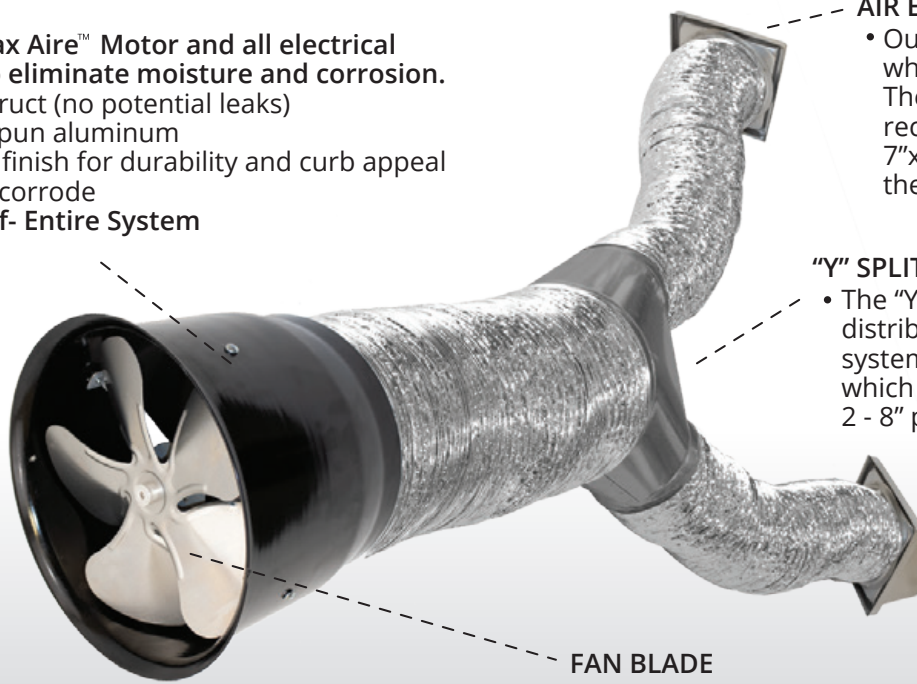
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SOLAR PANEL

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AIR EXHAUST PORT

- Output vent is the point where the air flow can exit. The size of the bottom rectangular output vent is 7"x4", and the diameter of the inlet is 6"

"Y" SPLITTER

- The "Y" shape twin head air distribution and reduction system separates the air flow which comes from 12" pipe into 2 - 8" pipes

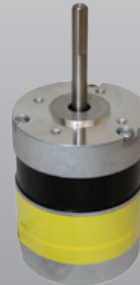
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Solaro Day™

Solar Powered Daylighting System

SD-2500-CC-KIT30W Features & Benefits



SOLARO DAY™ RECESSED FIXTURE

- The Solaro Day™ Recessed Fixture is installed so that very little is shown, ideal for Eco-friendly environments. This system uses one single source of solar power and multiple points of daylight simulators to light up your entire home, office, retail outlet, school, government building or factory. Can be centrally wired with more than one Solaro Day™ fixture powered by solar panels from 30 watt minimum to 250 watt maximum.



SOLARO DAY™ DRIVER

- Hi-tech American made daylight simulator driver. With 0 to 24 Volts DC input power, 30 W minimum, 240 W maximum solar panel power output to driver simulates the action of the sun. In the morning the Solaro Day starts off dim and gets brighter as the sun gets higher in the sky. As the sunset in Solaro Day daylight simulator will get dimmer and dimmer until the light gradually goes out, simulating the action of the sun, just like a roof mounted skylight. During the day, if a cloud casts a shadow on your roof the Solaro day will dim. As the sun returns the Solaro Day will get brighter, so you know if it's getting cloudy outside.



SOLAR PANEL

- 30 watt high efficiency mono-crystalline PV module. Normal 18V DC for standard output. Outstanding low-light performance. Heavy Duty anodized frames. High transparency, low-iron tempered glass. Rugged design to withstand high wind pressure, hail and snow. Aesthetic appearance. (2 fixtures can be put on a 60 watt solar panel, on up, divisible by 30)

Behind the **The Solaro Day™** acrylic diffuser are individual Opto Semiconductors designed with the highest quality and latest technology. Light emitting diodes (LEDs), only a few millimeters in length, convert electrical energy directly into light.

From the Solaro mono-crystalline solar panels, the sun's energy is converted into safe, low-voltage, high performing, simulated daylight.

The diffuser is made of modified acrylic and masterfully hides the Opto Semiconductors to give a smooth appearance. Provides simulated natural healthy sunlight that make bright, happy spaces with the same full spectrum light as sunlight.



Solaro Day™ daylight system which uses one single source of solar power and multiple points of daylight simulators to light up your entire home, office, retail outlet, school, government building or factory. Follows the brightness of the sun like a traditional skylight without all the inconveniences of one.

Solaro Shield™

Multi-Layer Reflective Insulation

SS-AL/AL-P49.125 Features & Benefits

204 sq.ft. per roll

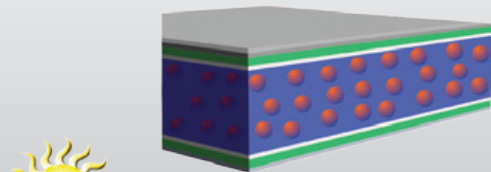
Solaro Multi-Layer Reflective Insulation (MRI) is engineered to increase energy efficiency, provide a clean finished appearance, and simplify installation for all residential, post frame, light-gauge steel, transportation and commercial insulation applications.

- Reflects up to 98% of IR (Infrared Rays)
- Nontoxic Lightweight Rolls
- Durable Construction and Long-Lasting Toughness
- Permeability Functions
- Multiple Facing Combinations
- Easy Installation with Utility Knife and Tape
- Insulation Improves Energy Savings by Helping Other
- Ventilation Systems Effectiveness
- Increase System Thermal Performance
- Use in retrofit or new construction

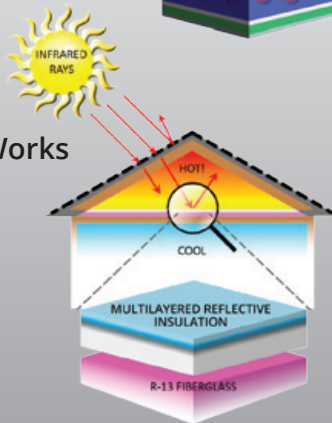


Closer View of the Reflective Insulation

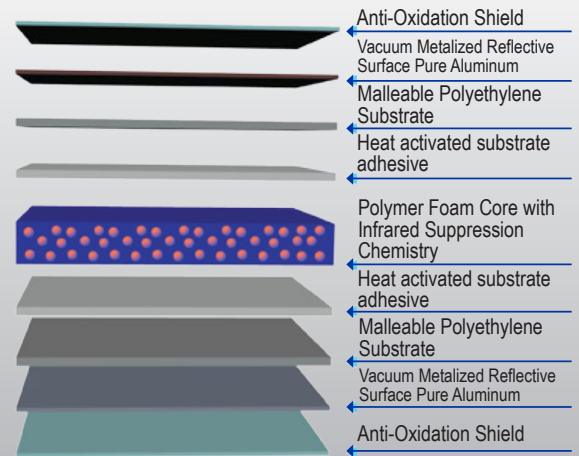
- High Quality Aluminum Layer
- Reflects up to 98% of IR (Infrared Rays)



How it Works



Layer Breakdown



The Solaro Shield Multi-Layered Reflective Insulation core is made of a flexible foam layer designed especially for Solaro that provides excellent reflectiveness and insulation characteristics. The core is 3/16" thick, providing additional insulation value and durability. In addition, the multiple facing combinations are thermally bonded in a unique process that provides a long term, quality finish to every insulation roll. Solaro insulation is thermally perforated, this system provides an easy permeability to moisture and allowing it to travel outside the structure.