Product Catalog 2024



TM

It's not different, it's better by design.

22955 McAuliffe Dr. • Suite A • Robertsdale, AL 36567



0	BRIEF INTRODUCTION	
	About Solaro Energy, Inc.	5
	Company Vision	6
		9
	SPECIFICATION SHEETS	
	ATTIC Ventilation Systems	
	EMBEDDED 25 Watt	
	SA-25WB-HPE	8
	SA-25WB-LPE	9
	GABLE 27 Watt	
	SA-27WR-GAE	10
	REMOTES 27 Watt	
	SA-27WR-HPE	11
	SA-27WR-LPE	12
	JA ZA VVICE E	
	TILTS 27 Watt	
	SA-27WT-HPE	13
	SA-27WT-LPE	14
	GABLE 37 Watt	
	SA-37WR-GAE	15
	REMOTES 37 Watt	
	SA-37WR-HPE	16
	SA-37WR-LPE	17
	TILTS 37 Watt	
	SA-37WT-HPE	18
	SA-37WT-LPE	19
	REMOTES 40 Watt	
	SA-40WR-HPE	20
	SA-40WR-LPE	21





HOW MANY FANS DO I NEED?	22
CRAWLSPACE Ventilation System SA-37W-CS	24
BASEMENT Ventilation System SA-30W-BVS1 SA-30W-BVS2	26 27
GARAGE Ventilation System SA-37W-GVK	29
DELIVERY TRUCK Ventilation System SA-TFE-WH	31
INSULATED PAINT w/ Nano Shield Technology SP-PNT-W	33
SOLARO DAY Indoor Lighting SD-2500-CC-KIT30W SD-2500-CC-FIX	35 36
SOLARO DAY Street Light SA-40W-SLE	38
ACCESSORIES DAY/NIGHT SWITCH KIT	
SD-DNK24V-30W THERMOSTAT	40 41
CURBMOUNT for Embedded Series SOLAR PANELS	42
E-SLP-27W	43
E-SLP-37W	44
E-SLP-40W	45

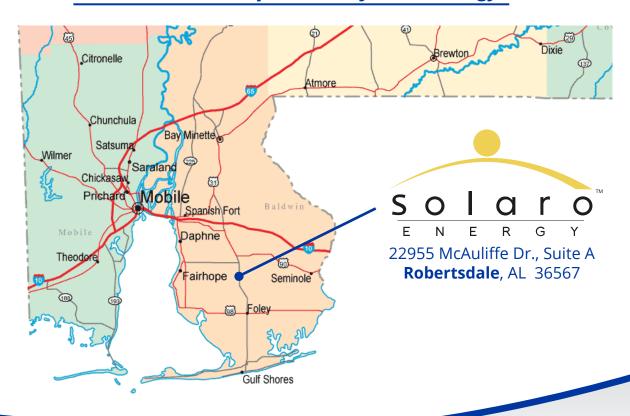


FEATURES & BENEFITS	
Solaro Aire Embedded Attic Fan	47
Solaro Aire Remote Attic Fan	48
Solaro Aire BVS2 Basement Unit	49
Solaro Aire Crawlspace Unit	50
Solaro Day Daylight Simulation System	51
MANUFACTURER'S STATEMENT & WARRANTY	ළ _බ
Solaro Day Warranty	53 54
Solaro Day Warranty Manufacturer's Certification Statement	55 55
Warranded of a certification statement	
MARKETING MATERIAL	
Solaro Aire Attic Embedded Fan Brochure	57
Solaro Aire Attic Remote & Tilt Fan Brochure	58
Solaro Aire Gable Fan Brochure	59
Solaro Aire Crawlspace Ventilation Brochure	60
Solaro Aire Basement Ventilation Brochure	61
Solaro Aire Garage Ventilation Brochure	62
Solaro Aire Delivery Truck Ventilation Brochure	63
Solaro Shield Insulated Paint	64
Solaro Day Daylight Simulation System Brochure	65
Solaro Day Street Light Brochure	66
Solaro Display Stand & Graphics	67
RESEARCH	
Performance Assessment Research	69
Ventilation Impact on Cooling	70
Photovoltalic Attic Ventilators	71
Attic Air Graphs	72
Measured Space Cooling	73
Conclusions & References	74



Sun Chart for the U.S. Yearly Heat Average for the U.S.	75 76
IMAGES & DIAGRAMS	
Air Flow	78
Installed Solaro Aire	79
Installed Solaro Day	80
Shipping Information	81
Home of Solaro Energy, Inc.	82
Installed Product Pictures	83

Southern Alabama Map & Home of Solaro Energy, Inc.



INTRODUCTION



Dennis Grubb CEO & Founder Solaro Energy

At **Solaro Energy**, we are committed to helping the planet stay green. We are focused on preserving the environment with green products promoting off-grid independence. We have over 15 years experience in harnessing solar power, and over 25 years experience manufacturing energy efficient products.

Solaro Energy Inc. guarantees better air performance because of the Maximum Power Point Tracking feature. Which maintains the highest possible air flow under all solar conditions by utilizing all the power available from the solar panel, setting the highest fan speed.

Designed by experts in the art of air flow technology, with years of aerodynamic engineering experience. Your **Solaro Aire**[™] solar powered attic fan will out preform all other products on the market today. Not only in terms of air movement performance, but also curb appeal and durability.

During the hot summer months, your attic can reach temperatures of up to 160° F, making your home warm and uncomfortable. The **Solaro Aire**™ **extracts the heat from your attic**, keeping the temperature down in your home and lowering your AC bill. A great replacement for the old noisy turbine vents.

The Solaro Aire[™] is the world's most advanced, fully integrated, high efficiency solar powered attic fan. Keep in mind, the attic fan will not make the attic cooler than the outside ambient temperature.



INTRODUCTION

COMPANY MISSION STATEMENT

At **Solaro Energy, Inc.** we are driven to become the industry standard and worldwide source of solar powered solutions for residential, commercial, manufacturing and municipal structures. We are committed to helping the planet stay green. We will only produce high-quality, durable products. Which provide long lasting, reliable and maintenance-free performance. Giving measurable economic return to our customers.

COMPANY VISION

Solaro Energy, Inc. innovates, designs and engineers the highest quality, America Made solar powered solutions for residential and commercial structures. We provide durable product solutions that help users achieve more independence, contribute to the conservation of our natural resources and achieve meaningful economic savings.

COMPANY OVERVIEW

- In-House Research and Development, Manufacturing and Distribution.
- Focused on preserving the environment with Green Products and Renewable Energy.
- Provide American engineered and American made line of products that are built to last a lifetime.





Solor Powered Attic Ventilation System



Specification Sheet

Model # SA-25WB-HPE

Ideal for applications where additional clearance is needed between the bottom of the fan and the roof. Perfect for snowy areas, flat or "S" tile roofs where less clearance could cause airflow problems. This provides an additional 2" of height from the roof deck. Only product certified through Dade County and approved for high winds. (160 mph)



Technical Information

Weight

Fan Weight: 19 lbs / 8.61 kg

Fan Packaged: 27 lbs. / 12.24 kg

Performance

Air Flow Rate: 900 to 1200 CFM Depending on solar exposure Ventilation: Up to 1250 sq.ft. Attic must support intake air for best performance

Electrical

Solar Panel: 25 watt, 17 to 22 DC, 1.25 amp, 36 mono-crystalline cell, solar cells with black back sheet

Motor: Solaro Max Aire Brushless DC Motor,10-22VDC

Material

Housing System: Spun Formed, Aircraft Grade Aluminum Fan Blade: 12" Aluminum, Factory Balanced Mesh Screen: Stainless Steel, 1/4" Mesh, Rodent Control

Wiring: 18 Gauge Copper Conductors with PVC Insulation

Active Aire

Housing & Flashing System

Aircraft grade, spun-formed aluminum for the utmost quality protection

Inner housing system is aerodynamically designed to produce the highest possible radial air exhaust Powder coated outer shell



olaro 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!

Components

Mesh Screen

Constructed specifically for the Solaro Aire 1/4" mesh screen keeps animals and rodents out while allowing maximum air exhaust Stainless Steel



Solar Panel

25 watt, 1.25 amp proprietary, high purity, mono-crystalline cell solar panel Weather proof in the most severe conditions High transparent, low iron tempered glass



Built for maximum performance and safety

Fan Blade

Specifically designed for the Solaro Aire solar powered ventilation system

12" - 5 blade aluminum fan, aerodynamically optimized blade to improve airflow

Operates whisper quiet throughout the day



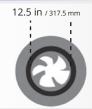
Motor & Fan Mount

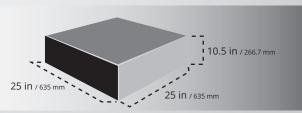
The Max Aire motor is mounted under the aluminum air deflector. Keeping it out of the air stream



Dimensions & Weight









Specification Sheet

Model # SA-25WB-LPE



Provides the same performance as the high profile base, when additional clearance is not necessary. Tucks in closer to the roof to be less conspicuous and more resistant to high winds. Only product certified through Dade County and approved for high winds. (160 mph)

Technical Information

Weight

Fan Weight: 19 lbs / 8.61 kg

Fan Packaged: 27 lbs. / 12.24 kg

Performance

Air Flow Rate: 900 to 1200 CFM Depending on solar exposure

Ventilation: Up to 1250 sq.ft. Attic must support intake air for best performance

Electrical

Solar Panel: 25 watt, 17 to 22 DC, 1.25 amp, 36 mono-crystalline cell, solar cells with black back sheet

Motor: Solaro Max Aire Brushless DC Motor,10-22VDC

Material

Housing System: Spun Formed, Aircraft Grade Aluminum Fan Blade: 12" Aluminum, Factory Balanced Mesh Screen: Stainless Steel, 1/4" Mesh, Rodent Control

Wiring: 18 Gauge Copper Conductors with PVC Insulation

ActiveAire

Housing & Flashing System

Aircraft grade, spun-formed aluminum for the utmost quality protection

Inner housing system is aerodynamically designed to produce the highest possible radial air exhaust Powder coated outer shell



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

olaro Max Aire Motor

30% better efficiency and air moving performance, with an amazing 100,000 hours average motor run time!

Mesh Screen

Stainless Steel

Constructed specifically for the Solaro Aire 1/4" mesh screen keeps animals and rodents out while allowing maximum air exhaust



Components

Solar Panel

25 watt, 1.25 amp proprietary, high purity, mono-crystalline cell solar panel Weather proof in the most severe conditions

High transparent, low iron tempered glass

Built for maximum performance and safety

Specifically designed for the Solaro Aire solar powered ventilation system

12" - 5 blade aluminum fan, aerodynamically optimized blade to improve airflow Operates whisper quiet throughout the day

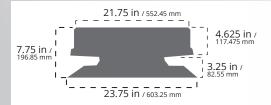


Motor & Fan Mount

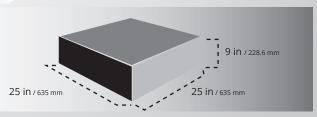
The Max Aire motor is mounted under the aluminum air deflector. Keeping it out of the air stream



Dimensions & Weight









Specification Sheet

Model # SA-27WR-GAE

Can be mounted inside the attic over an existing gable vent or roof penetration to supercharge the vents already there. Remains hidden and out of the weather, except for the roof mounted solar panel.

No large holes to cut in your roof.



Technical Information

Weight

Fan Weight: 5 lbs / 2.26 kg

Fan Packaged: 18 lbs. / 8.16 kg

Performance

Air Flow Rate: 900 to 1200 CFM Depending on solar exposure Ventilation: Up to 1250 sq.ft. Attic must support intake air for best performance

Electrical

Solar Panel: 27 watt, 17 to 22 DC, 1.25 amp, 36 mono-crystalline cell, solar cells with black back sheet

Motor: Solaro Max Aire Brushless DC Motor,10-22VDC

Material

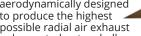
Housing System: Spun Formed, Aircraft Grade Aluminum Fan Blade: 12" Aluminum, Factory Balanced Mesh Screen: Stainless Steel, 1/4" Mesh, Rodent Control Wiring: 18 Gauge Copper Conductors with PVC Insulation

Active Aire

Housing & Flashing System

Aircraft grade, spun-formed aluminum for the utmost quality protection Inner housing system is

aerodynamically designed to produce the highest possible radial air exhaust Powder coated outer shell





AMERICAN MADE

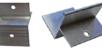
Brushless Electronic Motor with Maximum Yield Technology. This new motor technology was developed by Solaro Energy - Our engineers leveraged lessons learned from our original brushless electronic motor that we used for over 12 years. This new motor technology offers about 30% better efficiency and air moving performance, with an amazing 100,000 hours average motor run time!

Components

Solar Panel Brackets

Extruded Aluminum Mill finished Dimensions depth 0.60' 2"x2" Supports solar panel





Solar Panel

27 watt, 1.25 amp proprietary, high purity, mono-crystalline cell solar panel Weather proof in the most severe conditions

High transparent, low iron tempered glass

Built for maximum performance and safety

Fan Blades

Specifically designed for the Solaro Aire solar powered ventilation system

12" - 5 blade aluminum fan, aerodynamically optimized blade to improve airflow Operates whisper quiet throughout the day



Interconnect Cable

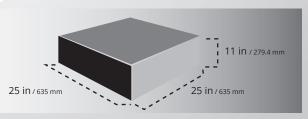
Wire: 25' - 2 Conductor 18 Gauge stranded copper U.V. Rated Power transfer cable



Dimensions & Weight









Specification Sheet

Model # SA-27WR-HPE

The Remote Solar Panel models are perfect for installing the attic fan and solar panel separately, due to limited light access in a desired fan location. Includes 25 ft. of Interconnect Cable. Only product certified through Dade County and approved for high winds. (160 mph)



Technical Information

Weight

Fan Weight: 19 lbs / 8.61 kg

Fan Packaged: 28 lbs. / 12.7 kg

Performance

Air Flow Rate: 900 to 1200 CFM Depending on solar exposure

Ventilation: Up to 1250 sq.ft. Attic must support intake air for best performance

Electrical

Solar Panel: 27 watt, 17 to 22 DC, 1.25 amp, 36 mono-crystalline cell, solar cells with black back sheet

Motor: Solaro Max Aire Brushless DC Motor, 10-22VDC

Material

Housing System: Spun Formed, Aircraft Grade Aluminum Fan Blade: 12" Aluminum, Factory Balanced Mesh Screen: Stainless Steel, 1/4" Mesh, Rodent Control Wiring: 18 Gauge Copper Conductors with PVC Insulation

ActiveAire

Housing & Flashing System

Aircraft grade, spun-formed aluminum for the utmost quality protection

Inner housing system is aerodynamically designed to produce the highest possible radial air exhaust Powder coated outer shell



Solaro Max Aire Motor

AMERICAN MADE

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!



Components

Mesh Screen

Constructed specifically for the Solaro Aire 1/4" mesh screen keeps animals and rodents out while allowing maximum air exhaust Stainless Steel



Solar Panel

27 watt, 1.25 amp proprietary, high purity, mono-crystalline cell solar panel Weather proof in the most severe conditions High transparent, low iron tempered glass



Built for maximum performance and safety

Fan Blade

Specifically designed for the Solaro Aire solar powered ventilation system

12" - 5 blade aluminum fan, aerodynamically optimized blade to improve airflow Operates whisper quiet throughout the day

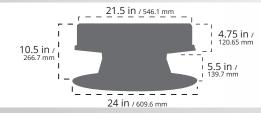


Motor & Fan Mount

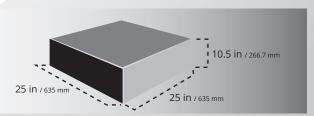
The Max Aire motor is mounted under the aluminum air deflector. Keeping it out of the air stream



Dimensions & Weight









Specification Sheet

Model # SA-27WR-LPE

The Remote Solar Panel models are perfect for installing the attic fan and solar panel separately, due to limited light access in a desired fan location. Includes 25 ft. of Interconnect Cable. Tucks in closer to the roof to be less conspicuous and more resistant to high winds. Only product certified through Dade County and approved for high winds. (160 mph)



Technical Information

Weight

Fan Weight: 19 lbs / 8.61 kg

Fan Packaged: 28 lbs. / 12.7 kg

Performance

Air Flow Rate: 900 to 1200 CFM Depending on solar exposure Ventilation: Up to 1250 sq.ft. Attic must support intake air

for best performance

Electrical

Solar Panel: 27 watt, 17 to 22 DC, 1.25 amp, 36 mono-crystalline cell, solar cells with black back

Motor: Solaro Max Aire Brushless DC Motor,10-22VDC

Material

Housing System: Spun Formed, Aircraft Grade Aluminum Fan Blade: 12" Aluminum, Factory Balanced Mesh Screen: Stainless Steel, 1/4" Mesh, Rodent Control Wiring: 18 Gauge Copper Conductors with PVC Insulation

Active Aire

Housing & Flashing System

Aircraft grade, spun-formed aluminum for the utmost quality protection Inner housing system is

aerodynamically designed to produce the highest possible radial air exhaust Powder coated outer shell



Solaro Max Aire Motor

AMERICAN MADE

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Mesh Screen

Constructed specifically for the Solaro Aire 1/4" mesh screen keeps animals and rodents out while allowing maximum air exhaust Stainless Steel



Components

Solar Panel

27 watt, 1.25 amp proprietary, high purity, mono-crystalline cell solar panel Weather proof in the most severe conditions

High transparent, low iron tempered glass

Built for maximum performance and safety

Fan Blade

Specifically designed for the Solaro Aire solar powered ventilation system

12" - 5 blade aluminum fan, aerodynamically optimized blade to improve airflow Operates whisper quiet throughout the day



Motor & Fan Mount

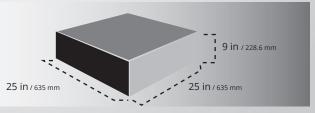
The Max Aire motor is mounted under the aluminum air deflector. Keeping it out of the air stream



Dimensions & Weight









Specification Sheet

Model # SA-27WT-HPE



Perfect for any installation requiring movement of the solar panel. Can be tilted and raised to 35 degrees or set flat against the solar fan. The Tilt Fan can also be rotated 360 degrees. As the seasons change, so does the angle of the sun. This solar panel can be changed year round to provide maximum performance.

Technical Information

Weight

Fan Weight: 24 lbs / 10.88 kg

Fan Packaged: 29 lbs. / 13.15 kg

Performance

Air Flow Rate: 900 to 1200 CFM Depending on solar exposure Ventilation: Up to 1250 sq.ft. Attic must support intake air for best performance

Electrical

Solar Panel: 27 watt, 17 to 22 DC, 1.25 amp, 36 mono-crystalline cell, solar cells with black back sheet

Motor: Solaro Max Aire Brushless DC Motor, 10-22VDC

Material

Housing System: Spun Formed, Aircraft Grade Aluminum Fan Blade: 12" Aluminum, Factory Balanced Mesh Screen: Stainless Steel, 1/4" Mesh, Rodent Control Wiring: 18 Gauge Copper Conductors with PVC Insulation

<u> Active Aire</u>

Housing & Flashing System

Aircraft grade, spun-formed aluminum for the utmost quality protection

Inner housing system is aerodynamically designed to produce the highest possible radial air exhaust Powder coated outer shell



Solaro Max Aire Motor

AMERICAN MADE

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!



Components

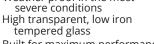
Mesh Screen

Constructed specifically for the Solaro Aire 1/4" mesh screen keeps animals and rodents out while allowing maximum air exhaust Stainless Steel



Solar Panel

27 watt, 1.25 amp proprietary, high purity, mono-crystalline cell solar panel Weather proof in the most severe conditions



Built for maximum performance and safety

Fan Blade

Specifically designed for the Solaro Aire solar powered ventilation system

12" - 5 blade aluminum fan. aerodynamically optimized blade to improve airflow Operates whisper quiet throughout the day



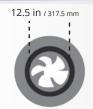
Motor & Fan Mount

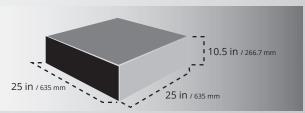
The Max Aire motor is mounted under the aluminum air deflector. Keeping it out of the air stream



Dimensions & Weight









Specification Sheet

Model # SA-27WT-LPE

Provides the same performance as the high profile base, when additional clearance is not necessary. Tucks in closer to the roof to be less conspicuous and more resistant to high winds. Perfect for any installation requiring movement of the solar panel. Can be tilted and raised to 35 degrees or set flat against the solar fan. The Tilt Fan can also be rotated 360 degrees. As the seasons change, so does the angle of the sun. This solar panel can be changed year round to provide maximum performance.



Technical Information

Weight

Fan Weight: 24 lbs / 10.88 kg

Fan Packaged: 29 lbs. / 13.15 kg

Performance

Air Flow Rate: 900 to 1200 CFM Depending on solar exposure Ventilation: Up to 1250 sq.ft. Attic must support intake air for best performance

Electrical

Solar Panel: 27 watt, 17 to 22 DC, 1.25 amp, 36 mono-crystalline cell, solar cells with black back sheet

Motor: Solaro Max Aire Brushless DC Motor, 10-22VDC

Material

Housing System: Spun Formed, Aircraft Grade Aluminum Fan Blade: 12" Aluminum, Factory Balanced Mesh Screen: Stainless Steel, 1/4" Mesh. Rodent Control Wiring: 18 Gauge Copper Conductors with PVC Insulation

Housing & Flashing System

Aircraft grade, spun-formed aluminum for the utmost quality protection Inner housing system is aerodynamically designed to produce the highest

Powder coated outer shell



olaro Max Aire Motor

AMERICAN MADE

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Components

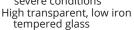
Mesh Screen

Constructed specifically for the Solaro Aire 1/4" mesh screen keeps animals and rodents out while allowing maximum air exhaust Stainless Steel



Solar Panel

27 watt, 1.25 amp proprietary, high purity, mono-crystalline cell solar panel Weather proof in the most severe conditions



Built for maximum performance and safety

Fan Blade

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12" - 5 blade aluminum fan. aerodynamically optimized blade to improve airflow Operates whisper quiet throughout the day

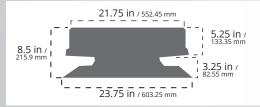


Motor & Fan Mount

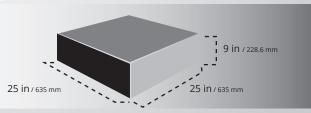
The Max Aire motor is mounted under the aluminum air deflector. Keeping it out of the air stream



Dimensions & Weight









Specification Sheet Model # SA-37WR-GAE

Can be mounted inside the attic over an existing gable vent or roof penetration to supercharge the vents already there. Remains hidden and out of the weather, except for the roof mounted solar panel.

No large holes to cut in your roof.



Technical Information

Weight

Fan Weight: 5 lbs / 2.26 kg

Fan Packaged: 18 lbs. / 8.16 kg

Performance

Air Flow Rate: 900 to 1200 CFM Depending on solar exposure Ventilation: Up to 1600 sq.ft. Attic must support intake air for best performance

Electrical

Solar Panel: 37 watt, 17 to 22 DC, 1.5 amp, 36 mono-crystalline cell, solar cells with black back sheet

Motor: Solaro Max Aire Brushless DC Motor,10-22VDC

Material

Housing System: Spun Formed, Aircraft Grade Aluminum Fan Blade: 12" Aluminum, Factory Balanced Mesh Screen: Stainless Steel, 1/4" Mesh, Rodent Control Wiring: 18 Gauge Copper Conductors with PVC Insulation

ActiveAire

Housing & Flashing System

Aircraft grade, spun-formed aluminum for the utmost quality protection

Inner housing system is aerodynamically designed to produce the highest possible radial air exhaust Powder coated outer shell



Brushless Electronic Motor with Maximum Yield Technology. This new motor technology

olaro Max Aire Motor

AMERICAN MADE

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!

Solar Panel Brackets Extruded Aluminum Mill finished

Dimensions depth 0.60' 2"x2" Supports solar panel





Components

Solar Panel

37 watt, 1.5 amp proprietary, high purity, mono-crystalline cell solar panel Weather proof in the most severe conditions

High transparent, low iron tempered glass

Built for maximum performance and safety

Fan Blades

Specifically designed for the Solaro Aire solar powered ventilation system

12" - 5 blade aluminum fan, aerodynamically optimized blade to improve airflow Operates whisper quiet throughout the day

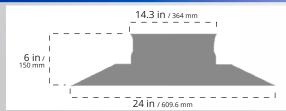


Interconnect Cable

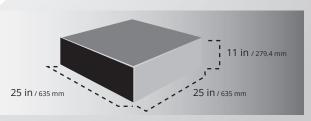
Wire: 25' - 2 Conductor 18 Gauge stranded copper U.V. Rated Power transfer cable



Dimensions & Weight





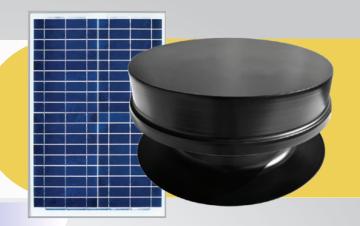




Specification Sheet

Model # SA-37WR-HPE

Allows solar panel location to be independent from the fan, so each can be placed in the ideal location on the roof. Can also be used with larger solar panels for improved performance, to offset poor lighting environments. Only product certified through Dade County and approved for high winds. (160 mph)



Technical Information

Weight

Fan Weight: 19 lbs / 8.61 kg

Fan Packaged: 28 lbs. / 12.7 kg

Performance

Air Flow Rate: 900 to 1200 CFM Depending on solar exposure Ventilation: Up to 1250 sq.ft. Attic must support intake air for best performance

Electrical

Solar Panel: 37 watt, 17 to 22 DC, 1.5 amp, 36 mono-crystalline cell, solar cells with black back

Motor: Solaro Max Aire Brushless DC Motor,10-22VDC

Material

Housing System: Spun Formed, Aircraft Grade Aluminum Fan Blade: 12" Aluminum, Factory Balanced Mesh Screen: Stainless Steel, 1/4" Mesh, Rodent Control Wiring: 18 Gauge Copper Conductors with PVC Insulation

Active Aire

Housing & Flashing System

Aircraft grade, spun-formed aluminum for the utmost quality protection Inner housing system is aerodynamically designed to produce the highest possible radial air exhaust

Powder coated outer shell



Solaro 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!



Components

Mesh Screen

Constructed specifically for the Solaro Aire 1/4" mesh screen keeps animals and rodents out while allowing maximum air exhaust Stainless Steel



Solar Panel

37 watt, 1.5 amp proprietary, high purity, mono-crystalline cell solar panel Weather proof in the most severe conditions High transparent, low iron tempered glass



Built for maximum performance and safety

Fan Blade

Specifically designed for the Solaro Aire solar powered ventilation system

12" - 5 blade aluminum fan, aerodynamically optimized blade to improve airflow Operates whisper quiet throughout the day

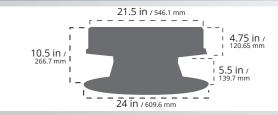


Motor & Fan Mount

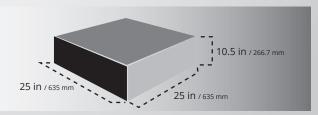
The Max Aire motor is mounted under the aluminum air deflector. Keeping it out of the air stream



Dimensions & Weight









Specification Sheet

Model # SA-37WR-LPE

Allows solar panel location to be independent from the fan, so each can be placed in the ideal location on the roof. Can also be used with larger solar panels for improved performance, to offset poor lighting environments. Only product certified through Dade County and approved for high winds. (160 mph)



Technical Information

Weight

Fan Weight: 19 lbs / 8.61 kg

Fan Packaged: 28 lbs. / 12.7 kg

Performance

Air Flow Rate: 900 to 1200 CFM Depending on solar exposure Ventilation: Up to 1250 sq.ft. Attic must support intake air for best performance

Electrical

Solar Panel: 37 watt, 17 to 22 DC, 1.5 amp, 36 mono-crystalline cell, solar cells with black back

Motor: Solaro Max Aire Brushless DC Motor,10-22VDC

Material

Housing System: Spun Formed, Aircraft Grade Aluminum Fan Blade: 12" Aluminum, Factory Balanced Mesh Screen: Stainless Steel, 1/4" Mesh, Rodent Control Wiring: 18 Gauge Copper Conductors with PVC Insulation

ActiveAire

Housing & Flashing System

Aircraft grade, spun-formed aluminum for the utmost quality protection Inner housing system is

aerodynamically designed to produce the highest possible radial air exhaust Powder coated outer shell



Max Aire Motor

AMERICAN MADE

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!

Mesh Screen Constructed specifically for

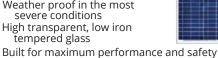
the Solaro Aire 1/4" mesh screen keeps animals and rodents out while allowing maximum air exhaust Stainless Steel



Components

Solar Panel

37 watt, 1.5 amp proprietary, high purity, mono-crystalline cell solar panel Weather proof in the most severe conditions High transparent, low iron



Fan Blade

Specifically designed for the Solaro Aire solar powered ventilation system

12" - 5 blade aluminum fan, aerodynamically optimized blade to improve airflow Operates whisper quiet throughout the day

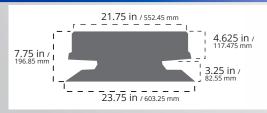


Motor & Fan Mount

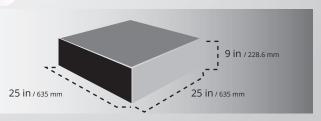
The Max Aire motor is mounted under the aluminum air deflector. Keeping it out of the air stream



Dimensions & Weight









Specification Sheet

Model # SA-37WT-HPE



Perfect for any installation requiring movement of the solar panel. Can be tilted and raised to 35 degrees or set flat against the solar fan. The Tilt Fan can also be rotated 360 degrees. As the seasons change, so does the angle of the sun. This solar panel can be changed year round to provide maximum performance.

Technical Information

Weight

Fan Weight: 24 lbs / 10.88 kg

Fan Packaged: 29 lbs. / 13.15 kg

Performance

Air Flow Rate: 900 to 1200 CFM Depending on solar exposure Ventilation: Up to 1250 sq.ft. Attic must support intake air for best performance

Electrical

Solar Panel: 37 watt, 17 to 22 DC, 1.5 amp, 36 mono-crystalline cell, solar cells with black back sheet

Motor: Solaro Max Aire Brushless DC Motor, 10-22VDC

Material

Housing System: Spun Formed, Aircraft Grade Aluminum Fan Blade: 12" Aluminum, Factory Balanced Mesh Screen: Stainless Steel, 1/4" Mesh, Rodent Control

Wiring: 18 Gauge Copper Conductors with PVC Insulation

Active Aire

Housing & Flashing System

Aircraft grade, spun-formed aluminum for the utmost quality protection Inner housing system is

aerodynamically designed to produce the highest possible radial air exhaust Powder coated outer shell



olaro 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!



Mesh Screen

Constructed specifically for the Solaro Aire 1/4" mesh screen keeps animals and rodents out while allowing maximum air exhaust Stainless Steel



Components

Solar Panel

37 watt, 1.5 amp proprietary, high purity, mono-crystalline cell solar panel Weather proof in the most severe conditions

High transparent, low iron tempered glass

Built for maximum performance and safety

Fan Blade

Specifically designed for the Solaro Aire solar powered ventilation system

12" - 5 blade aluminum fan, aerodynamically optimized blade to improve airflow Operates whisper quiet throughout the day



Motor & Fan Mount

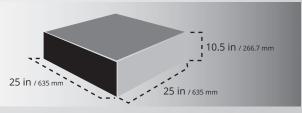
The Max Aire motor is mounted under the aluminum air deflector. Keeping it out of the air stream



Dimensions & Weight









Specification Sheet

Model # SA-37WT-LPE

Provides the same performance as the high profile base, when additional clearance is not necessary. Tucks in closer to the roof to be less conspicuous and more resistant to high winds. Perfect for any installation requiring movement of the solar panel. Can be tilted and raised to 35 degrees or set flat against the solar fan. The Tilt Fan can also be rotated 360 degrees. As the seasons change, so does the angle of the sun. This solar panel can be changed year round to provide maximum performance.



Technical Information

Weight

Fan Weight: 24 lbs / 10.88 kg

Fan Packaged: 29 lbs. / 13.15 kg

Performance

Air Flow Rate: 900 to 1200 CFM Depending on solar exposure Ventilation: Up to 1250 sq.ft. Attic must support intake air for best performance

Electrical

Solar Panel: 37 watt, 17 to 22 DC, 1.5 amp, 36 mono-crystalline cell, solar cells with black back sheet

Motor: Solaro Max Aire Brushless DC Motor, 10-22VDC

Material

Housing System: Spun Formed, Aircraft Grade Aluminum Fan Blade: 12" Aluminum, Factory Balanced Mesh Screen: Stainless Steel, 1/4" Mesh, Rodent Control Wiring: 18 Gauge Copper Conductors with PVC Insulation

Active Aire

Housing & Flashing System

Aircraft grade, spun-formed aluminum for the utmost quality protection

Inner housing system is aerodynamically designed to produce the highest possible radial air exhaust Powder coated outer shell



Solaro 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!

Mesh Screen Constructed specifically for

the Solaro Aire 1/4" mesh screen keeps animals and rodents out while allowing maximum air exhaust Stainless Steel



Components

Solar Panel

37 watt, 1.5 amp proprietary, high purity, mono-crystalline cell solar panel Weather proof in the most severe conditions High transparent, low iron tempered glass



Built for maximum performance and safety

Fan Blade

Specifically designed for the Solaro Aire solar powered ventilation system

12" - 5 blade aluminum fan, aerodynamically optimized blade to improve airflow Operates whisper quiet throughout the day

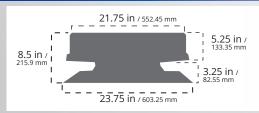


Motor & Fan Mount

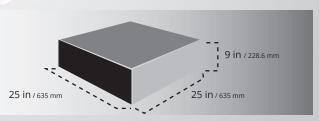
The Max Aire motor is mounted under the aluminum air deflector. Keeping it out of the air stream



Dimensions & Weight









Specification Sheet

Model # SA-40WR-HPE

Allows solar panel location to be independent from the fan, so each can be placed in the ideal location on the roof. Can also be used with larger solar panels for improved performance, to offset poor lighting environments. Only product certified through Dade County and approved for high winds. (160 mph)



Technical Information

Weight

Fan Weight: 11.3 lbs / 5.1 kg

Fan Packaged: 32 lbs. / 14.5 kg

Performance

Air Flow Rate: 900 to 1500 CFM Depending on solar exposure Ventilation: Up to 1250 sq.ft. Attic must support intake air for best performance

Electrical

Solar Panel: 40 watt, 17 to 22 DC, 1.75 amp, 36 mono-crystalline cell, solar cells with black back sheet

Motor: Solaro Max Aire Brushless DC Motor,10-22VDC

Material

Housing System: Spun Formed, Aircraft Grade Aluminum Fan Blade: 12" Aluminum, Factory Balanced Mesh Screen: Stainless Steel, 1/4" Mesh, Rodent Control Wiring: 18 Gauge Copper Conductors

with PVC Insulation

Active Aire

Housing & Flashing System

Aircraft grade, spun-formed aluminum for the utmost quality protection

Inner housing system is aerodynamically designed to produce the highest possible radial air exhaust Powder coated outer shell



Solaro Max Aire Motor

AMERICAN MADE

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!



Components

Mesh Screen

Constructed specifically for the Solaro Aire 1/4" mesh screen keeps animals and rodents out while allowing maximum air exhaust Stainless Steel



Solar Panel

40 watt, 1.75 amp proprietary, high purity, mono-crystalline cell solar panel Weather proof in the most severe conditions High transparent, low iron tempered glass



Built for maximum performance and safety

Fan Blade

Specifically designed for the Solaro Aire solar powered ventilation system

12" - 5 blade aluminum fan, aerodynamically optimized blade to improve airflow Operates whisper quiet throughout the day

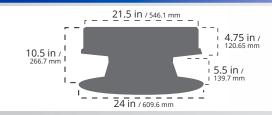


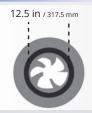
Motor & Fan Mount

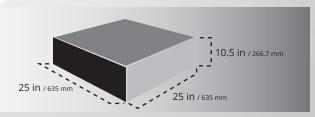
The Max Aire motor is mounted under the aluminum air deflector. Keeping it out of the air stream



Dimensions & Weight





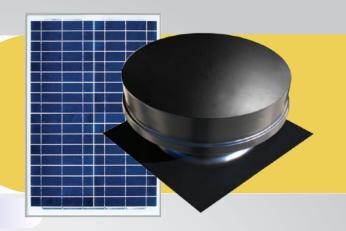




Specification Sheet

Model # SA-40WR-LPE

Allows solar panel location to be independent from the fan, so each can be placed in the ideal location on the roof. Can also be used with larger solar panels for improved performance, to offset poor lighting environments. Only product certified through Dade County and approved for high winds. (160 mph)



Technical Information

Weight

Fan Weight: 11.3 lbs / 5.1 kg

Fan Packaged: 32 lbs. / 14.5 kg

Performance

Air Flow Rate: 900 to 1500 CFM Depending on solar exposure Ventilation: Up to 1250 sq.ft. Attic must support intake air for best performance

Electrical

Solar Panel: 40 watt, 17 to 22 DC, 1.75 amp, 36 mono-crystalline cell, solar cells with black back

Motor: Solaro Max Aire Brushless DC Motor, 10-22VDC

Material

Housing System: Spun Formed, Aircraft Grade Aluminum Fan Blade: 12" Aluminum, Factory Balanced Mesh Screen: Stainless Steel, 1/4" Mesh, Rodent Control Wiring: 18 Gauge Copper Conductors with PVC Insulation

∆ctiveAire

Housing & Flashing System

Aircraft grade, spun-formed aluminum for the utmost quality protection

Inner housing system is aerodynamically designed to produce the highest possible radial air exhaust Powder coated outer shell



Solaro Max Aire Motor

AMERICAN MADE

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!



Components

Mesh Screen

Constructed specifically for the Solaro Aire 1/4" mesh screen keeps animals and rodents out while allowing maximum air exhaust Stainless Steel



Solar Panel

40 watt, 1.75 amp proprietary, high purity, mono-crystalline cell solar panel Weather proof in the most severe conditions

High transparent, low iron tempered glass

Built for maximum performance and safety

Fan Blade

Specifically designed for the Solaro Aire solar powered ventilation system

12" - 5 blade aluminum fan. aerodynamically optimized blade to improve airflow Operates whisper quiet throughout the day

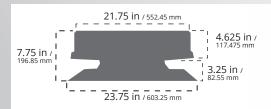


Motor & Fan Mount

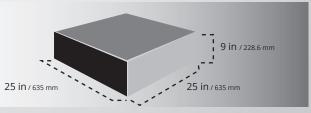
The Max Aire motor is mounted under the aluminum air deflector. Keeping it out of the air stream



Dimensions & Weight









How Many Fans Needed Roof Pitch Chart

ROOF PITCH - HIGH

ROOF PITCH 9/12 TO 12/12

800 ft. 2 Fans
1200 ft. 2 Fans
1600 ft. 3 Fans
2000 ft. 4 Fans
2400 ft. 5 Fans



ROOF PITCH - MEDIUM

ROOF PITCH 5/12 TO 8/12

800 ft. 1 Fan
1200 ft. 2 Fans
1600 ft. 2 Fans
2000 ft. 3 Fans
2400 ft. 4 Fans



ROOF PITCH - LOW

ROOF PITCH UP TO 4/12

800 ft. 1 Fan
1200 ft. 1 Fan
1600 ft. 2 Fans
2000 ft. 2 Fans
3 Fans





Solor Powered Crawl Space Ventilation System



Specification Sheet

Model # SA-37W-CS

The crawl space ventilation system is great for ventilating up to 1,000 sq. ft. this system ventilates moisture that would other wise 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.



Technical Information

Weight

Fan Weight: 19 lbs / 8.61 kg

Fan Packaged: 27 lbs. / 12.24 kg

Performance

Air Flow Rate: 900 to 1200 CFM Depending on solar exposure Ventilation: Up to 1250 sq.ft.

Electrical

Solar Panel: 37 watt, 17 to 22 DC, 1.25 amp, 36 mono-crystalline cell, solar cells with black back

Motor: Solaro Max Aire Brushless DC Motor,10-22VDC

Material

Housing System: Spun Formed, Aircraft Grade Aluminum Fan Blade: 12" Aluminum, Factory Balanced Mesh Screen: Stainless Steel, 1/4" Mesh, Rodent Control Wiring: 18 Gauge Copper Conductors with PVC Insulation

∧ctiveAire

Housing & Flashing System

Aircraft grade, spun-formed aluminum for the utmost quality protection Inner housing system is

aerodynamically designed to produce the highest possible radial air exhaust Powder coated outer shell



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!



Divider

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



Components

Solar Panel

37 watt, 1.25 amp proprietary, high purity, mono-crystalline cell solar panel Weather proof in the most severe conditions High transparent, low iron tempered glass



Built for maximum performance and safety

Fan Blade

Specifically designed for the Solaro Aire solar powered ventilation system

12" - 5 blade aluminum fan, aerodynamically optimized blade to improve airflow Operates whisper quiet throughout the day

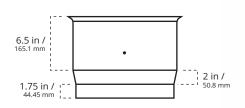


Air Exhaust Port

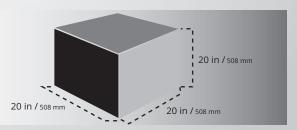
Output vent is the point where the air flow can exit. The size of the bottom rectangular output vent is 7"x4" and the diameter of the inlet is 6"



Dimensions & Weight









Solor Powered Basement Ventilation System



Specification Sheet

Model # SA-37W-BVS1

The Solaro Basement Ventilation System helps keep your home safe for family, friends and pets by reducing moisture and harmful gas build-up (such as radon). And keeping fresh air circulating for a clean, energized feeling. Interface with our 37 or 40 watt solar panel.

Technical Information

Weight

Fan Weight: 41 lbs / 18.5 kg

Performance

Air Flow Rate:

37 watt 900 to 1200 CFM 40 watt 900 to 1500 CFM

37 watt Up to 1600 sq.ft 40 watt Up to 2000 sq.ft

Electrical

Solar Panel: 37 watt, 17 to 22 DC, 36 mono-crystalline cell, solar cells with black back sheet 37 watt 1.5 amp 40 watt 1.75 amp Motor: Solaro Max Aire

Brushless DC Motor,10-22VDC

Material

Housing System: Spun Formed, Aircraft Grade Aluminum Fan Blade: 12" Aluminum, Factory Balanced Mesh Screen: Stainless Steel, 1/4" Mesh, Rodent Control Wiring: 18 Gauge Copper Conductors with PVC Insulation

∆ctiveAire

Housing & Flashing System

Aircraft grade, spun-formed aluminum for the utmost quality protection

Inner housing system is aerodynamically designed to produce the highest possible radial air exhaust Powder coated outer shell



Interconnect Cable

Wire: 25' - 2 Conductor 18 Gauge stranded copper U.V. Rated

hours average motor run time!

Max Aire Motor

Brushless Electronic Motor with Maximum

engineers leveraged lessons learned

from our original brushless electronic

motor that we used for over 12 years.

30% better efficiency and air moving

This new motor technology offers about

performance, with an amazing 100,000

Yield Technology. This new motor technology was developed by Solaro Energy - Our

Power transfer cable



Fan Blades

Specifically designed for the Solaro Aire solar powered ventilation system

12" - 5 blade aluminum fan, aerodynamically optimized blade to improve airflow Operates whisper quiet throughout the day



Components

6" Flex Ducting and 6" Vents

1 - 10' long / 6" Flex **Ducting** (Flex ducting to be cut in half)



Solar Panel

37 watt, 1.5 amp proprietary, high purity, mono-crystalline cell solar panel Weather proof in the most severe conditions

High transparent, low iron tempered glass

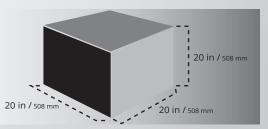
Built for maximum performance and safety

Dimensions



Top View







Specification Sheet

Model # SA-37W-BVS2

The Solaro Basement Ventilation System helps keep your home safe for family, friends and pets by reducing moisture and harmful gas build-up (such as radon). And keeping fresh air circulating for a clean, energized feeling. The Solaro BVS2 comes with a DC power supply to plug right into your home, but a 37W - solar powered kit is also available. All units also include a timer that can be used on DC (house) power and manually set to run your unit at maximum energy efficiency to maintain a safe and healthy radon level or to periodically kick on to the air for freshness.



Technical Information

Weight

Fan Weight: 56 lbs / 25.4 kg

NOTE: Total KIT weight could vary

Performance

Air Flow Rate: 900 to 1200 CFM Depending on solar exposure Ventilation: Up to 1600 sq.ft.

Timer

Electrical

Solar Panel: 37 watt, 17 to 22 DC, 1.5 amp, 36 mono-crystalline cell, solar cells with black back

Motor: Solaro Max Aire Brushless DC Motor, 10-22VDC DC ONLY 110W

6' reach with provided power cord Use **ONLY** with Provided Power Supply

Material

Housing System: Spun Formed, Aircraft Grade Aluminum

Fan Blade: 12" Aluminum, Factory Balanced

Wiring: 18 Gauge Copper Conductors with PVC Insulation

ActiveAire

Solar Panel

Housing & Flashing System

Aircraft grade, aluminum for the utmost quality and protection

Inner housing system is aerodynamically designed to produce the highest possible radial air exhaust

Powder coated outer shell

37 watt, 1.5 amp proprietary,

high purity, solar panel

Weather proof in the most

18 Gauge stranded copper

severe conditions High transparent, low iron tempered glass Wire: 25' Cable

olaro

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!

Max Aire Motor Brushless Electronic Motor with Maximum

Allows on/off cycle to be set in 30 minute intervals

Easy to Set and Change



Components

Fan Blades

Specifically designed for the Solaro Aire solar powered ventilation system

12" - 5 blade aluminum fan, aerodynamically optimized blade to improve airflow Operates whisper quiet throughout the day



6" Flex Ducting and 6" Vents

Maintenance: Simple exterior cleaning with soap

1 - 10' long / 6" Flex Ducting (Flex ducting to be cut in half)

2 - 6" vents



Dimensions





Solor O Aire Solar Powered Garage System



Specification Sheet

Model # SA-37W-GVK

This product is designed to completely ventilate a 1 to 2 car garage, to remove heat, moisture and odors. The system is completely powered from a 37 watt, Solaro high energy, high performance, low iron, tempered glass, silicon based solar panel. The Day/Night Kit is supplied with a multifunction wall mount switch recessed wiring box, 37 watt DC power supply and various wiring and connectors.



Technical Information

Weight

Fan Weight: 19 lbs / 8.61 kg

Fan Packaged: 40 lbs. / 18.1 kg

Performance

Air Flow Rate: 900 to 1200 CFM Depending on solar exposure Ventilation: Up to 1250 sq.ft.

Electrical

Solar Panel: 37 watt. 17 to 22 DC. 1.25 amp, 36 mono-crystalline cell, solar cells with black back

Motor: Solaro Max Aire Brushless DC Motor,10-22VDC

Material

Housing System: Spun Formed, Aircraft Grade Aluminum Fan Blade: 12" Aluminum, Factory Balanced Mesh Screen: Stainless Steel, 1/4" Mesh, Rodent Control Wiring: 18 Gauge Copper Conductors with PVC Insulation

∧ctiveAire

Housing & Flashing System

Aircraft grade, spun-formed aluminum for the utmost quality protection Inner housing system is aerodynamically designed to produce the highest possible radial air exhaust Powder coated outer shell



Solaro 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!

Register Boot

12" x 12 1/4" Aluminum Shaft



Components

Solar Panel

37 watt, 1.25 amp proprietary, high purity, mono-crystalline cell solar panel Weather proof in the most severe conditions High transparent, low iron tempered glass Built for maximum performance and safety



Fan Blade

Specifically designed for the Solaro Aire solar powered ventilation system

12" - 5 blade aluminum fan, aerodynamically optimized blade to improve airflow Operates whisper quiet throughout the day

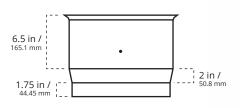


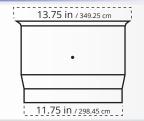
Flex Ducting

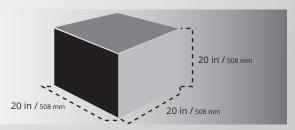
10 ft. Long, 10" Flex Ducting



Dimensions & Weight









Solar Powered Delivery Truck Ventilation



Specification Sheet

Model # SA-TFE-WH

Solaro Energy wants to present to you our newest ventilation system for multiple types truck trailers. This advanced system, extracts the air like no other fan, creating a more efficient air flow. This is a 25-watt unit fan that moves up to 900 cfm. This product has constant air flow throughout your trailer also known as air exchange or active air. Our fan is completely powered by the sun. By pulling outside air source in through existing windows and vents.

<u>solaro</u>

Technical Information

Weight

Fan Weight: 19 lbs / 8.61 kg

Fan Packaged: 27 lbs. / 12.24 kg

Performance

Air Flow Rate: 900 to 1200 CFM Depending on solar exposure

Ventilation: Up to 1250 sq.ft. Attic must support intake air for best performance

Electrical

Solar Panel: 25 watt, 17 to 22 DC, 1.25 amp, 36 mono-crystalline cell, solar cells with black back sheet

Motor: Solaro Max Aire Brushless DC Motor,10-22VDC

Material

Housing System: Spun Formed, Aircraft Grade Aluminum Fan Blade: 12" Aluminum, Factory Balanced Mesh Screen: Stainless Steel, 1/4" Mesh, Rodent Control

Wiring: 18 Gauge Copper Conductors with PVC Insulation

ActiveAire

Housing & Flashing System

Aircraft grade, spun-formed aluminum for the utmost quality protection Inner housing system is aerodynamically designed

to produce the highest possible radial air exhaust Powder coated outer shell



olaro Max Aire Motor Brushless Electronic Motor with Maximum

AMERICAN MADE

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!



Components

Wind Shield

This aerodynamic wind reflector creates a smooth airflow with less wind resistance



Solar Panel

25 watt, 1.25 amp proprietary, high purity, mono-crystalline cell solar panel Weather proof in the most severe conditions High transparent, low iron

tempered glass

Built for maximum performance and safety

Specifically designed for the Solaro Aire solar powered ventilation system

12" - 5 blade aluminum fan, blade to improve airflow Operates whisper quiet

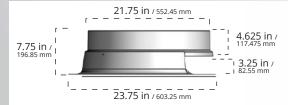
aerodynamically optimized throughout the day

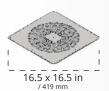
Motor & Fan Mount

The Max Aire motor is mounted under the aluminum air deflector. Keeping it out of the air stream

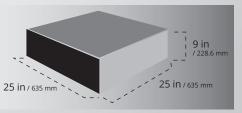


Dimensions & Weight











Insulated Paint with Nano Shield Technology





Specification Sheet

Model # SP-PNT-W

Solaro Shield Insulated Paint with 3M Nano Shield Technology

Solaro Energy has designed a line of **insulated paint**, with 3M Nano Shield Technology. This is a sunlight reflecting paint that can be applied to a truck rooftop. This concept has new support from the U.S. Green Building Council (USGBC) which has issued a pilot credit for the insulation of trucks. As well as, of cool exterior walls in new homes, schools, and commercial buildings to mitigate urban heat islands.



Insulation paint, also known as infrared reflecting paint, is an innovative and energy-efficient solution designed to enhance the thermal performance of buildings and surfaces. This advanced coating incorporates ceramic micro-spheres, which are tiny hollow spheres made from ceramic materials. The ceramic micro-spheres possess excellent heat-insulating properties, effectively acting as thermal barriers that minimize heat transfer. When applied to walls, roofs, or other structures, insulation paint helps regulate indoor temperatures by reflecting a significant portion of infrared radiation from the sun, thus reducing heat absorption. As a result, buildings stay cooler during hot summers and retain warmth in colder months, leading to improved energy efficiency and reduced reliance on heating and cooling systems. The technology of insulation paint with infrared reflecting capabilities and ceramic micro-spheres represents a promising step towards sustainable construction and climate-conscious design.

Insulated Paint Data

Description of Insulated Paint

- •Thermal Insulation, Mold Resistant, UV and Moisture Resistant for Delivery Trucks and Horse Trailers
- ·Sustainable Coating which Reduces Energy Costs & Carbon Emissions
- ·Can be Used Over Both Metal and Non-Metal Substrates
- ·Indoor and Outdoor Use
- ·Can be Painted Over

Coverage

One Gallon Rate (3.79 liters): Yields approx. 12 mils/ 300 microns wet film thickness (3 coat) over 150 sq.ft.

Wet Coat Thickness: 4 wet mils per coat Dry Coat Thickness of 1 Coat: .75 mil

Touch Dry Time: 1-2 Hours Hard Dry Time: 72 Hours

Cure Time: 30 Days, depending on environment

Insulated Paint Features & Benefits

Green Product

Environmentally Friendly Non-Toxic, Low VOC Water Based Breathable, won't act as a vapor barrier Non-Flammable Easy Cleanup

Thermal Insulation

Control Heat Loss Reduces Energy Costs UV Resistant

Can Be Painted Over, provides protection to underlying building surfaces from weathering and damage due to the elements

Resistant to Moisture

Mold & Mildew Resistant tested to ASTM D5590 and ASTM G21 for mold resistance

Reduces Chance of Food Contamination

Vapor Permeable (breathes)

Easy to Apply & Durable

Outstanding Durability & Weathering Easy to Apply by Brush, Roller, or Paint Sprayer Cost Effective, with long-term savings and short payback







Solar Powered Daylighting System



Specification Sheet
Model # SD-2500-CC-KIT30W

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.



Technical Information

Contents

Recessed Fixture 30 watt solar panel, 1.74 amp 25ft (7.5m) interconnect cable Solar panel mounting kit

Performance

Lumen: 2200 Lumen (equivalent to 2 - 100 watt Incandescent light bulbs) Light temp: 4500 - 5000 Kelvin Power consumption: 30 watts per light fixture

Construction Materials

Housing System: Spun Formed, Aircraft Grade Aluminum Solar Panel: 30 watt, 17 to 22 DC, 1.5 amp, 36 mono-crystalline cell, solar cells with black back

Stainless Steel & Nylon Screws Powder Coated Outer Shell

Electrical

Electronics: Proprietary current control driver & light engine

Power Options: 18 - 24V DC

Input Current: 1.8 amps

Features

Durable & Compatible

Will never rust or get brittle like steel or plastic Weather proof solar panel



Light Quality

78 OPTO Semi-conductors provide balanced light High diffusion plastic lens removes all hot spots No harmful UV gets in Wider spectrum than Incandescents & Florescent light

AMERICAN MADE



Easy to Install

Spring Clips for a strong yet Fastener free hold

Self contained, Runs directly off solar panel without additional AC wiring



Driver

Hi-tech American Made daylight simulator driver 0-24 Volts input power 30W minimum / 120 max. solar panel Simulates the sun and works like a skylight Gets light to dim with passing clouds

Day / Night Kit Compatible

Compatible with Day / Night Kit for night time use



Solar Panel

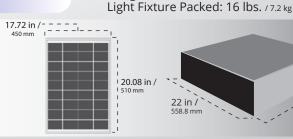
30 watt, 1.5 amp proprietary, high purity, mono-crystalline cell solar panel Weather proof in the most severe conditions High transparent, low iron tempered glass

19 in /

Built for maximum performance and safety

Dimensions & Weight





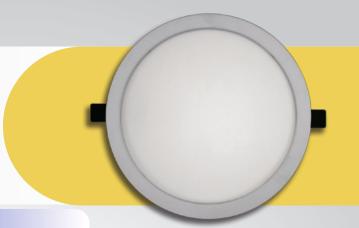
Limited Lifetime Warranty - See warranty details for additional information.



Specification Sheet

Model # SD-2500-CC-FIX

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.



Technical Information

Contents

Recessed Fixture

Performance

Lumen: 2200 Lumen (equivalent to 2 - 100 watt Incandescent light bulbs) Light temp: 4500 - 5000 Kelvin Power consumption: 30 watts per light fixture

Construction Materials

Housing System: Spun Formed, Aircraft Grade Aluminum

Stainless Steel & Nylon Screws Powder Coated Outer Shell

Electrical

Electronics: Proprietary current control driver & light engine

Power Options: 18 - 24V DC Input Current: 1.8 amps

Features

Durable & Compatible

Will never rust or get brittle like steel or plastic

Weather proof solar panel



Light Quality

78 OPTO Semi-conductors provide balanced light High diffusion plastic lens removes all hot spots No harmful UV gets in Wider spectrum than Incandescents & Florescent light

AMERICAN MADE
PRODUCTS DESIGNED AND MANUFACTURED
IN AMERICA BY AMERICANS

Easy to Install

Spring Clips for a strong yet Fastener free hold

Self contained, Runs directly off solar panel without additional AC wiring



Driver

Hi-tech American Made daylight simulator driver 0-24 Volts input power 30 W minimum / 120 max. solar panel

Simulates the sun and works like a skylight

Gets light to dim with passing clouds

Day / Night Kit Compatible

Compatible with Day / Night Kit for night time use

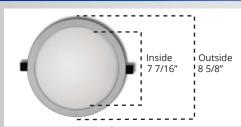


Spring Clips

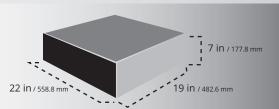
Strong Hold Won't come loose



Dimensions







Limited Lifetime Warranty - See warranty details for additional information.



Solar Powered Street Light



Specification Sheet

Model # SD-70W-SL

The Solaro Street Light integrates the green-energy solar panel, LED lamp and the lithium battery into a single product. This product is meant to be placed in your garden, residential area, courtyard, road, main area, parking area, parking area or provide light on roads where it is necessary. The battery provides the necessary energy for lighting. And the solar panel to charges the battery.



Technical Information

Specs.

Packaged Weight: 42 lbs / 18.16 kg

Warranty: 1 Year

Mounting Height: 5 - 6m

Performance

Lumen: 4100 - 4300 lumens 2700-7000K

LED: 42 pcs, Bridgelux 45ml Solar Charging Time: 6-7 Hours in Bright Sunlight

Lighting Time: 12 hrs per Night 3 Rainy Days Backup

Electrical

Solar Panel: 70 watt

Lithium Battery: 26AH, 12V

Working Temp: -30° C $\sim 60^{\circ}$ C

Material

Aluminum Alloy & PC Lens

Size: 47' (1200 mm) x 12' (330 mm) x 5.5' (140 mm)

Waterproof: IP65

Components

Durable

All air craft grade anodized aluminum Will never rust or get brittle like steel or plastic Weather proof solar panel



Light Quality

42 OPTO semi-conductors provide balanced light High diffusion plastic lens removes all hot spots No Harmful UV gets in Wider spectrum incandescent & flourscent lights



Solar Panel Brackets

Supports Solar Panel Extruded Aluminum Mill Finished Dimentions: 2'x2' Depth: 0.06"



Solar Panel

Built for maximum

70 watt, proprietary, high purity, mono-crystalline solar cells Weather proof in most severe conditions High transparent, low iron tempered glass

performance and safety



Efficient

Proprietary, high purity, solar panel with high transparent low-iron tempered glass

Powered by the sun Free Energy



Control Remotely

Can be turned on and off by an app on your cellphone



Installment Images









Accessories





Specification Sheet

Model # SD-DNK24V-30W

Day/Night Switch Kit

The Solaro Energy Day/Night Kit is designed to operate the Solaro Day daylight simulators and 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.



What's Included

Switch

Decora Multi-Functional Switch and Cover Plate (white)





24V 30watt AC to DC Power Supply

- AC Adapter
- I/P: AC 100-240V
- 50/60Hz 1.5A
- O/P: DC 24. OV, 1.5A



Interconnect Cable

- 25' 2 Conductor Wire
- 18 Gauge Stranded Copper
- U.V. Rated
- Power Transfer Cable



Junction Box

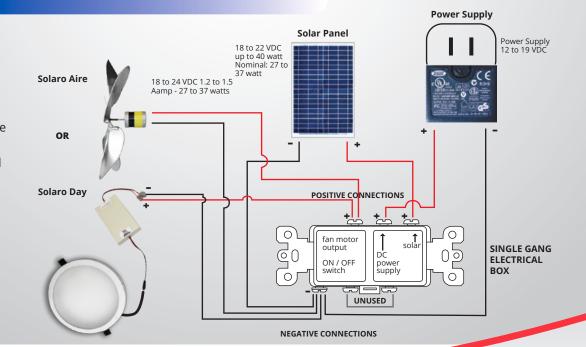
• 1 - Single Gang Remodel Box



Wire Diagram



Reversing Polarity will Damage Fan Motor





Specification Sheet

Model # Thermostat

The thermostat allows temperature control of the Solaro Aire solar attic fan. A temperature sensor activates or deactivates the fan at 85° F threshold. This sensor can hang freely 2 ft below the attic fan attached to a roof beam to get a more accurate reading.



Components

Wire

85° F threshold switch mounted to 4 ft of 18 gauge 2 conductor fully jacketed wire and covered with shrink wrap.



Strain Relief

Heyco 1/2" Strain Relief



Wago / Rubber Grommet







Automatic Thermostat

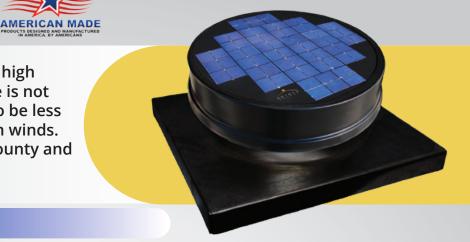
Factory installed built-in thermostat allows the fan to operate only when the temperature is above 85°F. This is a great add on if you don't want the solar attic fan on during certain times of the day. This thermostat will also add YEARS of high performance to your attic fan. Can be included during manufacturing of the fan or a do-it-yourself kit is available including hardware and instruction.



Specification Sheet

Model # SA-25WB-LPE-CURB

Provides the same performance as the high profile base, when additional clearance is not necessary. Tucks in closer to the roof to be less conspicuous and more resistant to high winds. Only product certified through Dade County and approved for high winds. (160 mph)



Technical Information

Weight

Fan Weight: 19 lbs / 8.61 kg

Fan Packaged: 27 lbs. / 12.24 kg

Performance

Air Flow Rate: 900 to 1200 CFM Depending on solar exposure

Ventilation: Up to 1250 sq.ft. Attic must support intake air for best performance

Electrical

Solar Panel: 25 watt, 17 to 22 DC, 1.25 amp, 36 mono-crystalline cell, solar cells with black back sheet

Motor: Solaro Max Aire Brushless DC Motor,10-22VDC

Material

Housing System: Spun Formed, Aircraft Grade Aluminum Fan Blade: 12" Aluminum, Factory Balanced Mesh Screen: Stainless Steel, 1/4" Mesh, Rodent Control

Wiring: 18 Gauge Copper Conductors with PVC Insulation

∆ctiveAire

Housing & Flashing System

Aircraft grade, spun-formed aluminum for the utmost quality protection aerodynamically designed

Inner housing system is to produce the highest possible radial air exhaust Powder coated outer shell



olaro 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!



Components

Mesh Screen

Constructed specifically for the Solaro Aire 1/4" mesh screen keeps animals and rodents out while allowing maximum air exhaust Stainless Steel



Solar Panel

25 watt, 1.25 amp proprietary, high purity, mono-crystalline cell solar panel Weather proof in the most severe conditions High transparent, low iron

tempered glass

Built for maximum performance and safety

Specifically designed for the Solaro Aire solar powered ventilation system

12" - 5 blade aluminum fan, aerodynamically optimized blade to improve airflow Operates whisper quiet throughout the day

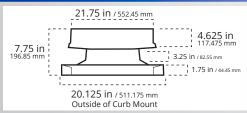


Motor & Fan Mount

The Max Aire motor is mounted under the aluminum air deflector. Keeping it out of the air stream

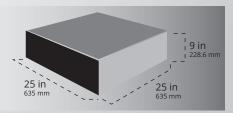


Dimensions & Weight



NOTE: Outside of Curb should be built slightly SMALLER than Inside of Curb Mount for proper fit. (approx. 19.75 in or smaller)





Important Note: The Solaro Aire Attic Fan Ventilation System is 100% fire proof and all electrical components are hidden under the air diverting cowling creating an extremely safe and efficient ventilation system **Limited Lifetime Warranty** - See warranty details for additional information.



Specification Sheet

Model # E-SLP-27W

27 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



Technical Information

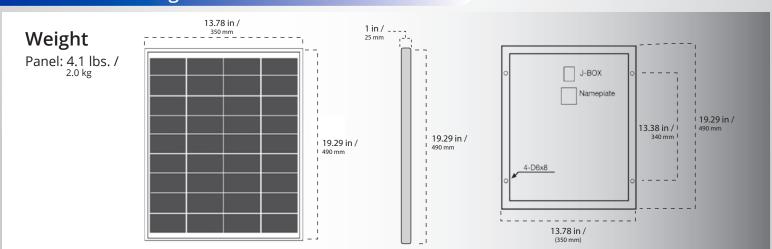
Electrical Characteristics		
	Maximum Power (Pmax)	27W
	Tolerance of Pmax	<u>+</u> 5%
	Open Circuit Voltage (Voc)	22.3V
	Maximum Power Voltage (Vmp)	18.0V
	Short Circuit Current (lsc)	1.21A
	Maximum Power Current (mp)	1.11A
	Series Fuse Rating	2A
	Maximum System (DC) Voltage	60V

Temperature Coefficients		
-40°C -85°C		
48 ± 3°C		
+0.084% / °C		
-0.39% / °C		

Due to technological advances in solar panels, we reserve the right to modify system performance as efficiency improves.

AMERICAN MADE

Dimensions & Weight





Specification Sheet

Model # E-SLP-37W

37 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



Technical Information

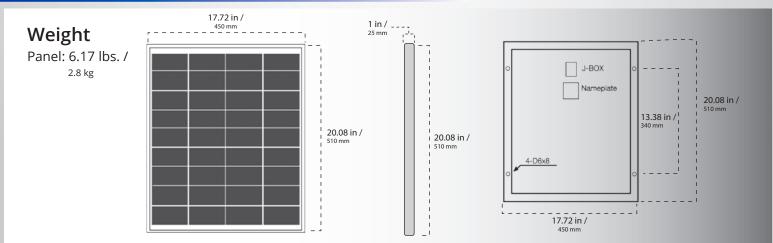
Electrical Characteristics		
	Maximum Power (Pmax)	37W
	Tolerance of Pmax	<u>+</u> 10%
	Open Circuit Voltage (Voc)	22.3V
	Maximum Power Voltage (Vmp)	18.0V
	Short Circuit Current (lsc)	1.82A
	Maximum Power Current (mp)	1.67A
	Series Fuse Rating	2A
	Maximum System (DC) Voltage	60V

Temperature Coefficients		
-40°C -85°C		
48 ± 3°C		
+0.084% / °C		
-0.39% / °C		

Due to technological advances in solar panels, we reserve the right to modify system performance as efficiency improves.

AMERICAN MADE

Dimensions & Weight





Specification Sheet

Model # E-SLP-40W

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



Technical Information

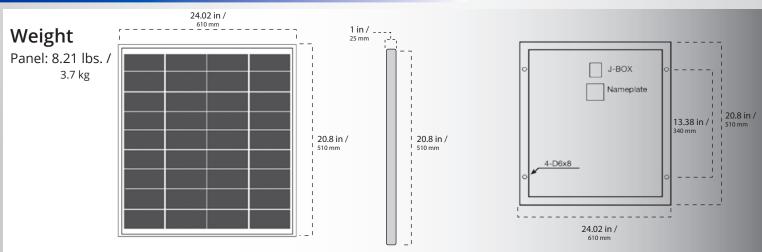
Electrical Characteristics		
	Maximum Power (Pmax)	40W
	Tolerance of Pmax	<u>+</u> 10%
	Open Circuit Voltage (Voc)	22.3V
	Maximum Power Voltage (Vmp)	18.0V
	Short Circuit Current (lsc)	2.42A
	Maximum Power Current (mp)	2.22A
	Series Fuse Rating	4A
	Maximum System (DC) Voltage	600V

Specifications		
Temperature Coefficients	-40°C -85°C	
NOCT	48 ± 3°C	
Temperature Coefficients lsc	+0.084% / °C	
Temperature Coefficients Voc	-0.39% / °C	

Due to technological advances in solar panels, we reserve the right to modify system performance as efficiency improves.

AMERICAN MADE

Dimensions & Weight





Features & Benefits

Solar O Aire November 19 Solar Powered Attic Ventilation System

Features & Benefits

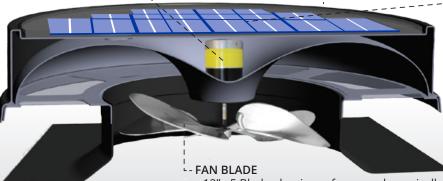
MAX AIRE[™] MOTOR

- 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.



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
- •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



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

REMOTE Features & Benefits

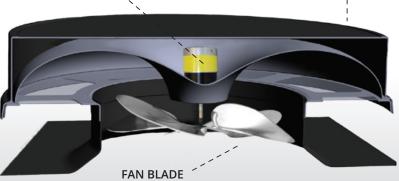
MAX AIRE[™] MOTOR

- 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.



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

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



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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

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.





- 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







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.

Solar Solar Polyered Grawlspace 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 other wise 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.

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

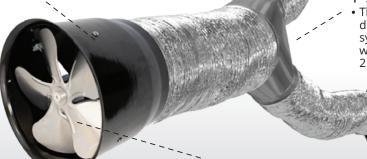
AIR EXHAUST PORT

 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





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 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



MAX AIRE[™] MOTOR

- Brushless Electronic Motor with Maximum Yield Technology. 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.







The Solaro Aire™ is the only ventilation system in the industry to feature ActiveAire™ Technology. Specifically designed to guide air through the ventilation system, preventing it from getting trapped inside the housing and causing the motor to overload. This advanced system of uniquely engineered created for more efficient airflow. With ActiveAire™ Technology, you can expect the highest airflow of any ventilation system on the market today!

Solar Daylighting System 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.

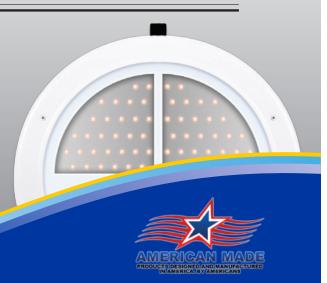
SOLAR PANEL

• 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.



Warranty & Manufacturer's Certification Statement

On the date of your purchase of the Solaro Attic Ventilation System, Please complete and **return** the bottom section on this **Limited Warranty certificate**. Keep the top portion for your records.



Solaro Aire

LIMITED LIFETIME WARRANTY

The Solaro Aire[™] has a limited lifetime warranty

Each Solaro Aire™ System is carefully built to exact specifications and packaged with great care. We expect your purchase to be one that will last you a lifetime and we will make every effort to ensure your satisfaction. The Solaro Aire™ System cannot be altered in any way by the end user. The warranty is extended to the original purchaser, whose name appears on the warranty certificate and is in effect at the location shown on the warranty certificate. This warranty applies to residential or commercial installations and is non-transferable.

The word "defect(s)" as used in this warranty, is defined as imperfections that impair the functionality of the Solaro Aire™ System(s). Implied warranty of merchantability and fitness for a particular purpose are limited to the terms of this warranty. Solaro Energy, Inc. provides a Limited Lifetime Warranty on all parts and mechanisms on all of its Solaro Aire™ System(s) and to be free of defects in material and workmanship.

This Limited Lifetime Warranty does not cover damages caused by misuse, abuse, scratching, corrosive atmosphere contaminants, lightning, earthquakes, windstorms, tornadoes, flooding, fire, modification, vandalism, negligence, or other causes beyond our control. This includes any other acts of God.

In no event shall Solaro Energy, Inc. be liable for direct or indirect loss, consequential damage, or any other claims except as provided for in this warranty. Defective components will be replaced free of charge for up to 10 years from the date of installation. After 10 years of service, the solar panel and electronic brushless motor replacement may be subject to shipping and handling charges. The warranty will not cover the cost of labor, applicable taxes, shipping, or other consequential expenses related to the removal, return, or re-installation. See local dealer/distributor for applicable charges.



Please contact Solaro Energy if you have any questions or if you would like to purchase additional accessories.

www.solaroenergy.com

888-355-5786

<u></u>		
REGISTRATION CARD (please print clearly) Notice: The warranty with		
Place where unit was purchased:	Date Installed:	
Customer Name: Stree	Street Address:	
City: State: ZIP Code:	Phone:	
Email: Are you satisfied with	n the performance of the Solaro Aire System? Yes 🗌 No 🗌	
Product Model #: Please include any comments to help us further improve our products:	Please complete this Registration Card and Mail to: Solaro Energy 22955 McAuliffe Dr. Suite A Robertsdale, AL 36567	

On the date of your purchase of the Solaro Day Daylighting System, Please complete and return the bottom section on this Limited Warranty certificate. Keep the top portion for your records.



Solar Powered Daylighting System

LIMITED LIFETIME WARRANTY

The Solaro Day™ has a limited lifetime warranty

Each Solaro Day™ System is carefully built to exact specifications and packaged with great care. We expect your purchase to be one that will last you a lifetime and we will make every effort to ensure your satisfaction. The Solaro Day™ System cannot be altered in any way by the end user. The warranty is extended to the original purchaser, whose name appears on the warranty certificate and is in effect at the location shown on the warranty certificate. This warranty applies to residential or commercial installations and is non-transferable.

The word "defect(s)" as used in this warranty, is defined as imperfections that impair the functionality of the Solaro Day™ System(s). Implied warranty of merchantability and fitness for a particular purpose are limited to the terms of this warranty. Solaro Energy, Inc. provides a Limited Lifetime Warranty on all parts and mechanisms on all of its Solaro Day™ System(s) and to be free of defects in material and workmanship.

This Limited Lifetime Warranty does not cover damages caused by misuse, abuse, scratching, corrosive atmosphere contaminants, lightning, earthquakes, windstorms, tornadoes, flooding, fire, modification, vandalism, negligence, or other causes beyond our control. This includes any other acts of God.

In no event shall Solaro Energy, Inc. be liable for direct or indirect loss, consequential damage, or any other claims except as provided for in this warranty. Defective components will be replaced free of charge for up to 10 years from the date of installation. After 5 years of service, the light engine/electronic driver replacement may be subject to shipping and handling charges. The warranty will not cover the cost of labor, applicable taxes, shipping, or other consequential expenses related to the removal, return, or re-installation. See local dealer/distributor for applicable charges.



Please contact Solaro Energy if you have any questions or if you would like to purchase additional accessories.

www.solaroenergy.com

888-355-5786

3 <u>-</u>	
REGISTRATION CARD (please print clearly) Notice: The warranty with	ll be invalid after 90 days of purchase. Please send warranty promptly.
Place where unit was purchased:	Date Installed:
Customer Name: Stree	t Address:
City: State: ZIP Code:	Phone:
Email: Are you satisfied with	n the performance of the Solaro Day System? Yes 🔲 No 🗌
Product Model #: Please include any comments to help us further improve our products:	Please complete this Registration Card and Mail to: Solaro Energy 22955 McAuliffe Dr. Suite A Robertsdale, AL 36567



Solaro Energy, Inc.

22955 McAuliffe Dr., Suite A Robertsdale, AL 36567 1-888-355-5786 www.SolaroEnergy.com

MANUFACTURER'S CERTIFICATION STATEMENT

For Solaro Day™ Lighting Systems and Solaro Aire™ Attic Fans Purchased and Placed in Service Between 01/01/22 and 12/31/22

Residential Homeowners Only - Solaro Energy Company is a manufacturer of solar powered lighting systems and solar powered attic ventilation systems that use photovoltaic's, through proprietary designs in our line of Solaro Day™ day day-lighting systems and Solaro Aire™ attic fans.

Hereby, Solaro Energy Company certificates that the listed products below qualify for federal tax credits for energy efficiency building products as prescribed in the American and Reinvestment Act of 2009.

- Solaro Day™ 1000 lumen
- Solaro Day™ 2200 lumen
- Solaro Day™ 1800 lumen
- Solaro Day™ 8000 lumen

Solaro Aire

- Solaro Aire™ Embedded Solaro Panel
 Solaro Aire™ Gable Fan
- Solaro Aire™ Remote Panel
- Solaro Aire™ Tilt Panel

Disclaimer: Solaro Energy Co. is not a tax advisor. Taxpayers claiming a tax credit should consult a tax professional with any questions. Solaro Energy Co. is not responsible or liable for the taxpayer's ability to receive tax credits. This document is not intended to constitute legal or tax advice. More comprehensive information will be made available by the IRS.

The user maintains he full and complete responsibility to comply with all codes, laws and regulations applicable to the safe and proper use, handling and installation of the product and should consult with a professional for all construction and design related questions. The information contained herein is believed to be accurate as of the time of preparation; however, Solaro Energy Co. makes no warranty concerning the accuracy of this information.

This Statement of Certification was prepared 01-01-2022 in accordance to the qualifications for tax credits as the law states on this date

This statement certifies only that the referenced Solaro Energy Co, Solaro Day™ and Solaro Aire™ products qualify for the Federal 26% tax credit for energy-efficient products installed from 01-01-2022 through 12-31-2022. Under Penalties of perjury, I declare that I examined this certification statement, and the best of my knowledge and belief that facts are true, correct and complete.

Dennis A. Grubb President and CEO Solaro Energy Company



Please contact Solaro Energy, Inc. if you have any questions or if you would like to purchase additional accessories.

www.solaroenergy.com

1-888-355-5786

HOMEOWNER'S CERTIFICATION: (fill out and retain for your tax records)

Homeowner's Name:	. SSN:
Address:	Product(s) Installed:
Material Cost: \$	•
Purchase Date:	
Turchase bate.	mstallation bate.



Marketing Material



Your Solaro Aire" Attic Fan can be installed on any style of roof.



laro Aire High Profile



Solaro Aire Low Profile

Provides the same performance as high p bases when additional clearance is not ne Tucks in closer to the roof to be less cons



Solaro Aire Remote

ows the solar panel location to be independent from fair's so each can be placed in the ideal part of the of. Can also be used with larger solar panels for proved performance or to offset poor light



Solaro Aire Gable

Can be mounted inside the attic over an existing gable vent or roof penetration to supercharge the vents afready there. Remains hidden and out of the weather, safe for the remote mounted solar panel. No large holes to cut in your roof.



Solaro Aire Tilt

27 watt or 37 watt solar panel, perfect for any installation that requires directing the panel towards the sun for better performance. 360° rotation and 35° tilt make it perfect for less than



Solaro Aire~ Thermostat

Factory installed built-in thermostat allows the fan to operate only when the temperature is above 85°F.



Solaro Aire AC Connection Kit

Plug-in transformer and toggle switch kit offers opportunity to operate your solar fan during evening hours on AC power.

888-355-5786

The Benefits of the Solaro Aire



All of the Solaro Aire™ attic fans qualify for a 30% Federal Tax Credit on materials and installation through the American Recovery and Reinvestment Act of 2009.



The Solaro Aire™ Limited Lifetime Warranty is the strongest in the industry.



The Solaro Aire™ doesn't cost one penny to operate! It's completely powered by the sun!



Built to be dependable. Weather resistant powder coated finish on all exposed fan parts provide a handsome and durable finish.



Removes heat during the hot summer months. Removes moisture that can cause mold and mildew in the winter.

AMERICAN MADE 回送回

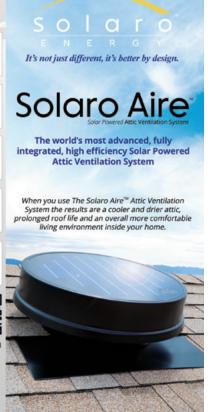




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Solaro Energy

22955 McAuliffe Dr., Suite A Robertsdale, AL 36567





During the hot summer months, your attic can reach temperatures of 160°F and above. The Solaro Aire Attic Ventilation Fan works by expelling this hot air and returning your attic's space closer to the outside ambient temperature. The Solaro Aire" operates completely off solar energy, pulling the outside air in through existing static and soffit vents. By pulling from this external air source, the attic fan will extract the hot, humid air up through the fan and create a constant exchange of air in your attic. A well-ventilated attic will help reduce your energy costs and reduce the temperature in your home.

In the colder winter months, warm moist air rises from inside your home and collides with the cold underside of the roof. The Solaro Aire" provides circulation that prevents the moist air from condensing on the surface, keeping your attic cooler and drier. By installing a Solaro Aire" you will not only be creating a more pleasant living space but you will be protecting your roof, framing and attic from excessive heat and moisture.

For more information, please call us toll free at 1-888-355-5786

features & benifts SOLARO AIRE SOLAR PANEL

Unique proprietary design Low Iron-High transmission tempered glass Completely stand alone, no wiring required (Embedded & Tilt models)

FAN HOUSING

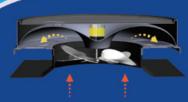
Seamless construction (no potential leaks)
 Aircraft grade Spun Aluminium
owder-coated finish for durability & curb appeal
 Resistant to rust and corrosion

FAN BLADE

• 12" - 5 blades (fire resistant) • Specifically designed for this system • Operates whisper quiet



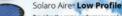
Brushless Electronic Motor with Maximum Yield Technology, This new motor technology was developed by Solaro Energy - Our engineers leveraged lessons learned from our original brushless electronic motor that we used for ove 12 years. This new motor technology offers about 30% better efficiency and air moving performance, with an amazing 100,000 hours average motor run time! That's about 25 years of system operation time!



The Solaro Aire™ is the only attic fan in the industry to feature ActiveAire™ Technology. Specifically designed to guide air through the fan without any obstructions, and preventing it 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 ActiveAire™ Technology, you can expect the highes airflow of any attic fan on the market today!



ideal for applications where a is needed between the bottom roof. Perfect for snowy areas less clearance could cause all



rrovides the same performance as high bases when additional clearance is not Jucks in closer to the roof to be less co and more resistant to high winds.

Solaro Aire Remote

ows the solar panel location to be independent in the fan's so each can be placed in the ideal the roof. Can also be used with larger solar par improved performance or to offset poor light:

Solaro Aire~ Gable



27 watt or 37 watt solar panel, perfect for any installation that requires directing the panel towards the sun for better performance. 360* rotation and 35* tilt make it perfect for less than ideal fan locations.

Optional Accessories:



Solaro Aire- Thermostat

Factory installed built-in thermostat allows the fan to operate only when the temperature is above 85°F.



Solaro Aire AC Connection Kit Plug-in transformer and toggle switch kit offers opportunity to operate your solar fan during evening hours on AC power.

1-888-355-5786

The Benefits of the Solaro Aire



All of the Solaro Aire™ attic fans qualify for a 30% Federal Tax Credit on materials and installation through the American Recovery and Reinvestment Act of 2009.



The Solaro Aire™ Limited Lifetime Warranty is the strongest in the industry.



The Solaro Aire™ doesn't cost one penny to operate! It's completely powered by the sun!



Built to be dependable. Weather resistant powder coated finish on all exposed fan parts provide a handsome and durable finish.



moves heat during the hot summer months. Removes moisture that can cause mold and mildew in the winter.

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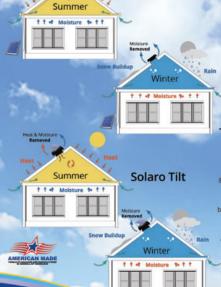




During the hot summer months, your attic can reach temperatures of 160°F and above. The Solaro Aire' Attic Ventilation Fan works by expelling this hot air and returning your attic's space closer to the outside am temperature. The Solaro Aire' operates completely off solar energy, pulling the outside air in through existing static and soffit vents. By pulling from this external air source, the attic fan will extract the hot, humid air up through the fan and create a constant exchange of air in your attic. A well-ventilated attic will help reduce your energy costs and reduce the temperature in your home.

In the colder winter months, warm moist air rises from inside your home and collides with the cold underside of the roof. The Solaro Aire' provides circulation that prevents the moist air from condensing on the su keeping your attic cooler and drier. By installing a Solaro Aire' you will not only be creating a more pleasant living space but you will be protecting your roof, framing and attic from excessive heat and moisture. tic from excessive heat and moi

For more information, please call us toll free at 1-888-355-5786



Solaro Remote

features & benifts SOLARO AIRE

SOLAR PANEL

Unique proprietary design
 Low Iron-High transmission tempered glass
 Connects to the Gable using a 25' 2 conductor 18 gauge stranded copper cable

FAN BLADE

12" - 5 blades (fire resistant)
 Specifically designed for this system
 Operates whisper quiet

FAN HOUSING

Seamless construction (no potential leaks)
- Aircraft grade Spun Aluminium
wder-coated finish for durability & curb appeal
- Resistant to rust and corrosion



Maximum titleoory Yedi Tehnology
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 Aire

Corrosion Resistant Aluminum Alloy is used for all structural components within the Solaro Aire. The attic fan housing is fireproof with NO plastic parts, unlike the competition, which can deteriorate quickly in heat.





Solaro Aire Thermostat

Solaro Aire AC Connection Kit

1 - 8 8 8 - 3 5 5 - 5 7 8 6

Plug-in transformer and toggle switch kit offers opportunity to operate your solar fan during evening hours on AC power.

The Benefits of the Solaro Aire



All of the Solaro Aire™ attic fans qualify for a 30% Federal Tax Credit on materials and installation through the American Recovery and Reinvestment Act of 2009.



The Solaro Aire™ Limited Lifetime Warranty is the strongest in the industry.



The Solaro Aire™ doesn't cost one penny to operate! It's completely powered by the sun!



Built to be dependable. Weather resistant powder coated finish on all exposed fan parts provide a handsome and durable finish.



Removes heat during the hot summer months. Removes moisture that can cause mold and mildew in the winter.

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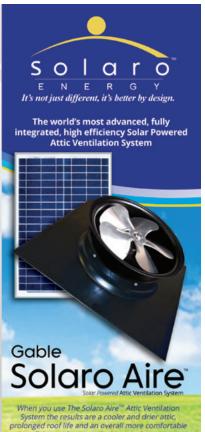




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Solaro Energy

Robertsdale, AL 36567







how does it WOR

The Solaro Gable Attic Fan energy costs. It is powere

During the **hot summer months**, your attic can reach temperatures of 160°F and above. The Solaro Aire^{*} Attic Ventilation Fan works by expelling this hot air and returning your attic's space closer to the outside an temperature. The Solaro Aire" operates completely off solar energy, pulling the outside air in through existing static and soffit vents. By pulling from this external air source, the attic fan will extract the hot, humid air through the fan and create a constant exchange of air in your attic. A well-ventilated attic will help reduce your energy costs and reduce the temperature in your home

In the colder winter months, warm moist air rises from inside your home and collides with the cold underside of the roof. The Solaro Aire" provides circulation that prevents the moist air from condensing on the surface, keeping your attic cooler and drier. By installing a Solaro Aire' you will not only be creating a more pleasant living space but you will be protecting your roof, framing and attic from excessive heat and moisture.

For more information, please call us toll free at 1-888-355-5786



Solaro Aire







qualify for a 30% Federal Tax Credit on materials and installation through the American Recovery and Reinvestment Act of 2009.



The Solaro Aire™ Limited Lifetime Warranty is the strongest in the industry.



penny to operate! It's completely powered by the sun!



Built to be dependable. Weather resistant powder coated finish on all exposed fan parts provide a handsome and durable finish.



Removes heat during the hot summer months, as well as Radon gas. Removes moisture that can cause mold and mildew in the winter.

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PRODUCTS DESIGNED
AND MANUFACTURED IN
AMERICA BY AMERICANS

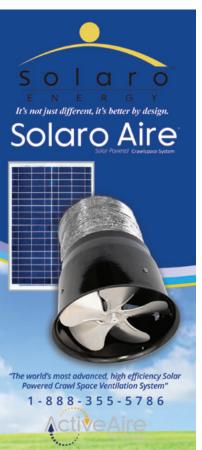




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Air Flow for the Crawl Space Ventilation System



from growing. During the hot summer months, your crawl space can reach high temperatures that would accelerate mold growth. This system circulates the hot air out through the ducting.

For more information, please call us toll free at 1-888-355-5786



features & benifts SOLARO AIRE SOLAR PANEL Unique proprietary design
 Low Iron-High transmission tempered glass
 Completely self sufficient
 OPTIONAL- 27 watt, 37 watt and **FAN HOUSING** Seamless construction (no potential air leaks)
 Aircraft grade Spun Aluminium · Resistant to rust and corrosion **FAN BLADE** 12" aluminium fan - 5 blades (fire resistant)
 Blade shaped for more efficient air flow
 Will not bend or create vibrations
 Computer balanced fan blades for dramatically Solaro Max Aire Motor Maximum Efficiency Yield Technology

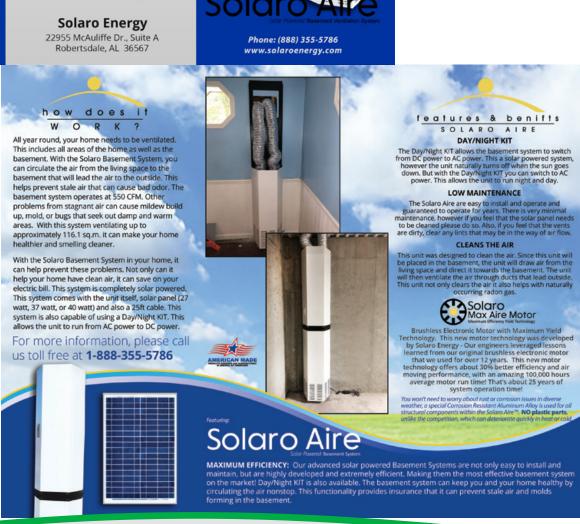
designed to guide air through the ventilation system, preventing it from getting trapped inside the housing and causing the motor to overload. This advanced system of uniquely engineered created for more efficient airflow. With ActiveAire™ Technology, you can expect the highest airflow of any ventilation system on the market tod



1-888-355-5786

doesn't take up space.













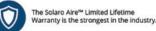
Optional Accessories:

Solaro Aire Thermostat

Solaro Aire AC Connection Kit roug-in transformer and toggle switch kit offers opportunity to operate your solar fan during evening hours on AC power.

-888-355-5786







The Solaro Aire™ doesn't cost one penny to operate! It's completely red by the sun!



Built to be dependable. Weather resistant powder coated finish on all exposed fan parts provide a handsome and durable finish.



Can tolerate harsh weather conditions during that long drive down the highway

AMERICAN MADE PRODUCTS DESIGNED

AND MANUFACTURED IN AMERICA BY AMERICANS





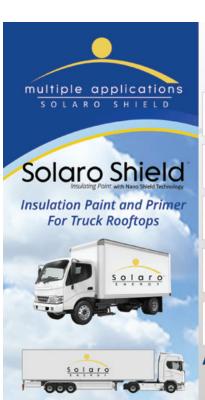
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Solaro Energy

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Solaro Shield Insulated Paint is a Green Product. Environmentally Friendly, Non-Toxic, with Low VOC. A Non-Flammable, Water Based Paint for Easy Cleanup.



Thermal insulated to Control Heat Loss and Reduce Energy Costs. This UV Resistant Paint can be Painted Over for Curb Appeal and Extra Protection.



Solaro Shield Insulated Paint is Moisture Resistant, Mold and Mildew Resistant. As well as Vapor Permeable. (breathes)



Solaro Shield Insulated Paint is Easy to Apply by Brush, Roller, or Paint Sprayer and is Cost Effective.



Solaro Shield Insulated Paint has Outstanding Durability and Weathering. Great Under Harsh Weather Conditions During that Long Drive Down the Highway.

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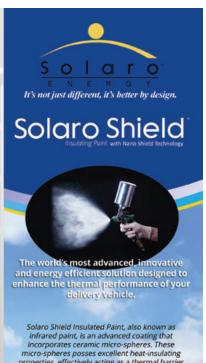




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Solaro Energy

22955 McAuliffe Dr., Suite A



properties, effectively acting as a thermal barrier that minimizes heat transfer.

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Robertsdale, AL 36567



- Nano Technology Based Material
- UV Resistant
- Moisture Resistant
 Mold and Mildew Resistant
- Reduces Energy Costs
 Reduces Carbon Emissions
- · Corrosion/CUI Resistant
- Chemical Resistant
- · A Green, Environmentally Friendly Product
- Non-toxic, Low VOC
- · Water Based and Breathable (won't act as a vapor barrier)
- Easy Cleanup
- · Control Heat Loss
- Used On Metal and Non-Metal Surfaces · Can Be Painted Over
- Indoor and Outdoor Use
- Vapor Permeable (breaths)
- · Safe to Touch



For more information, please call us toll free at 1-888-355-5786



Thermally Insulated

Mold & Mildew Resistant

Tested to ASTM D5590 and ASTM G21 for Mold Resistance

Great Coverage & Dry Time

One Gallon Yields approx. 12 mils/300 micror Wet Film Thickness (3 coats) over 150 sq.ft. Touch Dry Time: 1-2 Hours Hard Dry Time: 72 Hours Cure Time: 30 Days, dep

Durable & Easy to Apply

Outstanding Durability & Weath Easy to Apply by Brush, Roller, or Pa





to mitigate urban heat islands. Insulation paint, also known as infrared reflecting paint, is an innovative and energy-efficient solution designed to enhance the thermal performance of buildings and surfaces. This advanced coating incorporates ceramic micro-spheres, which are tiny hollow spheres made from ceramic materials. The ceramic micro-spheres possess excellent heat-insulating properties, effectively acting as thermal barriers that minimize heat transfer. When applied to walls, roofs, or other structures, insulation paint helps regulate indoor temperatures by reflecting a significant portion of infrared radiation from the sun, thus reducing heat absorption. As a result, buildings stay

insulated paint

NANO SHIELD TECHNOLOGY

Solaro Energy has designed a line of insulated paint, with 3M Nano Shield Technology. This is a sunlight reflecting paint that can be applied to a truck rooftop. This concept has new support from the U.S. Green Building Council (USGBC) which has issued a pilot credit for the insulation

of trucks. As well as, of cool exterior walls in

new homes, schools, and commercial buildings

portion of infrared radiation from the sun, thus reducing heat absorption. As a result, buildings stay sooler during hot summers and retain warmth in colde months, leading to improved energy efficiency and reduced reliance on heating and cooling systems. The technology of insulation paint with infrared reflecting capabilities and ceramic micro-spheres represents a promising step towards sustainable construction and climate-conscious design.

Solaro Shield

Solaro Shield Insulated Paint with 3M Nano Shield Technology for Delivery Truck Rooftops









Helping the

Earth Stay Green.

At Solaro Energy we are committed to helping the planet stay green. We are focused on preserving the environment with green products and promoting off-grid independence. We have over 15 years experience in harnessing solar power and over 25 years experience in manufacturing energy efficient products.







The Solaro Day™ is eligible to receive a 30% Federal Tax Credit on both the cost of the product and installation.



The Solaro Day™ Limited Lifetime Warranty is the strongest in the industry.



The Solaro Dayⁿ doesn't cost one penny to operate! It's completely powered by the sun!



Built to be dependable. Weather resistant powder coated finish on all exposed fan parts provide a handsome and durable finish.



Can tolerate all forms of weather. This light is meant to be placed outside.

AMERICAN MADE

PRODUCTS DESIGNED AND MANUFACTURED IN AMERICA BY AMERICANS

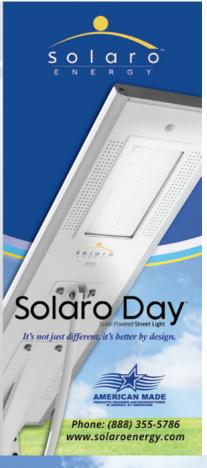




www.Solarolighting.com

Solaro Energy

22955 McAuliffe Dr., Suite A Robertsdale, AL 36567





The Solaro Street Light is meant to be installed outside. This could be on the city streets, in parks, gardens, residential or commercial areas. This light is completely solar powered. It is recommend that the light fixture be charged for at least 6-8 hours before use. After the light is completely charged, it can light up an area of roughly 45 ft. Of course there are different models and different levels of lumens. It depends on what your needs are.

Extremely Bright: Our street lights use the brightest LEDs available allowing for brightness as high as 12,000 Lumens.

Cement Base: We recommend the use of a 2' to 3' diameter cement base, standing 2' to 3' tall.

14' - 18' Pole: We recommend the use of a 3" to 5" diameter pole standing 14' to 18' high.

Fast Charge Times: Our highly efficient batteries fully charge in as little as six hours.

For more information, please call us toll free at **1-888-355-5786**







MOTION SENSOR

At night, the street light is always on. However this does have a motion sensor. When someone walks by, the light gets brighter.

BATTERY BACKUP

A powerful battery is charged during the day so that the Solaro Street Lights can illuminate roads and sidewalks all night long.

LOW MAINTENANCE

Solar Street Lights are both easy to install and operate and guaranteed to operate for a long time.

DAYLIGHT SENSORS

The Solar Street Light is equipped with Daylight sensors that turn the Ultra-Bright LEDs on when it gets dark.



You won't need to worry about rust or corrosion issues in diverse weather, a special Corrosion Resistant Aluminum Alloy is used for all structural components within the Solaro Doy". NO plastic parts.



Solaro Street Light

MAXIMUM EFFICIENCY: Our advanced solar powered street lights are not only easy to install and maintain, their highly developed systems are also extremely efficient. Making them the most effective street light on the market! Two forms of light control are available. The Solaro Solar Street Lights can be set on a timer, or can use built in day/night sensors. This functionality provides insurance that our lights will keep your roads, stadiums and parks bright throughout the night!

BUIL









Top/middle Panel







Solaro Aire

Solaro

Solar

Left Panel







Research



Creating Energy Independence

Reference Publication: Danny S. Parker, John R. Sherwin, "Performance Assessment of Photovoltaic Attic Ventilator Fans", Presented at: The Symposium on Improving Building Systems in Hot and Humid Climates, May 15-17, 2000, San Antonio, TX

Disclaimer: The views and opinions expressed in this article are solely those of the authors and are not intended to represent the views and opinions of the Florida Solar Energy Center.

Performance Assessment of Photovoltaic Attic Ventilator Fans

Danny S. Parker, John R. Sherwin Florida Solar Energy Center (FSEC)

FSEC-GP-171-00

Abstract

Controlling summer attic heat gain is important to reducing air conditioning energy use in homes in hot-humid climates. Both heat transfer through ceilings and to attic duct systems can make up a large part of peak cooling demand. Attic ventilation has long been identified as a method to abate such heat gains. We present test results from using the photovoltaic (PV) attic ventilator fans in a test home to assess impact on attic and cooling energy performance.

Background

Improving attic thermal performance is of fundamental to controlling residential cooling loads in hot climates. Accumulating research data have shown that the influence of attics on space cooling demand is not only due to the change in ceiling heat flux when cooling, but very often due to the conditions within the attic itself and their influence on heat gain to duct systems and on air infiltration into the building. The importance of ceiling heat flux has long been recognized with insulation a very effective method of controlling excessive gain. However, when ducts are present in the attic, the magnitude of heat gain to the thermal distribution system under peak conditions can be often much greater than the ceiling heat flux in well-insulated attics (Parker et al., 1993; Hageman and Modera, 1996). (1) This influence may be exacerbated by location of the air handler within the attic space - a common practice in much of the southern U.S. The air handler is both poorly insulated with the greatest temperature difference (the evaporator) of any location of the cooling system. It also has the greatest negative pressures so that some leakage into the unit is inevitable. Evidence for this influence is contained in a monitoring study of sub-metered air conditioning energy in 48 Central Florida homes conducted by Cummings (1991) which found that homes with the air handlers located in the attic used 30% more space cooling energy than those with the air handlers located in garages or elsewhere.

Another emerging phenomenon from buildings research in cooling dominated climates shows that duct system supply air leakage can lead to negative pressures within the house interior when the air handler is operating. This, in turn, can result in hot air from the attic being drawn down to the conditioned space through interior wall headers, recessed cans or other bypasses from the attic to the interior. This phenomenon is commonly encountered in slab on grade homes in the Sunbelt states in the U.S. where the dominant leakage plane to the exterior is through the ceiling.

The Florida Solar Energy Center (FSEC) has performed numerous experiments in test buildings over the last decade on the potential of a variety of methods to reduce attic air temperatures in Florida residences. This includes radiant barrier systems (Fairey et al., 1988), white reflective roofs (Parker et al., 1995), enhanced attic ventilation and roof tiles (Beal and Chandra, 1995). Attic air temperatures vary considerably depending on roofing type, color and ventilation.

Potential Ventilation Impact on Cooling

Forced attic ventilation is a commonly encouraged technique to reduce residential heat gains from the ceiling. However, even those who are in favor of increased attic ventilation have often warned that the energy consumption associated with the attic fan motor is likely greater than any realized energy savings from its use olfert and Hinrichs, 1974). Also, an early detailed study showed that while forced attic ventilation did reduce cooling energy use, the reduction was quite small and outweighed by the energy consumption of the fan itself (Dutt and Harrje, 1979). Another study in two instrumented side-by-side homes in Texas came to similar conclusions (Burch and Treado, 1979). Forced ventilation was found to reduce ceiling heat gain by 1.1 Btu/hr/ft² (328 W) over soffit venting and gains to the attic duct system by 94 W.(2) At a normal air conditioning COP of 2.5, the overall reduction in cooling energy use could be expected to be approximately 170 W against the measured consumption of 284 W by the ventilation fan. Measured reduction to the maximum cooling load was only 6% for R-11 ceiling insulation. Thus, the powered ventilation does not typically result in a net energy savings for powered vent fans unless the attic is uninsulated. Under this scenario, other means of controlling attic heat gain are preferable and more cost effective than forced ventilation. Other analysis, tends to verify this conclusion. Detailed simulations suggest that the heat transfer in an attic to a residential building interior in midsummer is dominated by radiative gains from the hot roof decking directly to the insulation surface (Parker et al., 1991; Wilkes, 1991). This mode of heat transfer is more effectively limited by 1) increased attic insulation, 2) a truss-mounted radiant barrier or 3) a white reflective roof surface that limits solar gain to the attic structure.

Although attic ventilation has been shown to reduce attic air temperatures and cooling loads the only examination of powered attic ventilators has shown the electricity consumption of the ventilator fans to be greater than the savings in air conditioning energy (Burch et al., 1979). In recent years, however, photovoltaic ventilator fans have become available which have no parasitic consumption of line electricity. These tend to be expensive, but are easier to install since no wiring is required.

Site Description

The test site is a three bedroom single family home located in Cocoa, Florida with approximately 1,045 square feet of conditioned floor space. The household consists of four members with the home occupied most of the day. The home is cooled by a 2.5 ton split system central air conditioner with electric strip heat. The air handler is located in a conditioned utility room. The interior temperature is maintained at a fairly constant 73°F throughout the summer.

The design is a simple rectangular floor plan with the long axis facing east and west (Figure 1). The ceiling of the home has approximately R-19 blown fiberglass insulation. Walls are of frame construction with R-11 insulation. The floor is over an open crawlspace with no insulation. Single pane windows with aluminum frames comprise approximately 12% of the conditioned floor area.



Figure 1. Photo of test site from the east.

The A-frame roof has a 3/12 pitch with asphalt shingles over plywood decking. The dark brown asphalt shingles with an approximate solar absorptance of 92%. A flex duct system is also present in the attic space which distributes the cooled air and is likely influenced by attic thermal conditions. The home had only perforated soffits prior to the retrofit; there were no ridge vents in place.

Instrumentation

A multi-channel data logger recorded various parameters in the home which affect energy use. Type-T

thermocouples record the ambient, interior air temperature and attic air temperatures in the home. A pulse initiating power transducer recorded the air conditioner power consumption. A number of other parameters are also recorded at the site including the attic air temperature, the interior temperature and relative humidity. A meteorological station mounted off and above the north edge of the roof records shielded ambient air temperature, humidity, horizontal solar irradiance and wind speed. All data are recorded very 15 minutes and sent back nightly to the host mainframe computer.

Photovoltaic Attic Ventilators

Two PV attic ventilators were installed on the house's asphalt shingle roof on August 6^{th} , $1997.\frac{(3)}{2}$ Both were installed near the peak of the A-frame roof with one on the east face and another on the west face as shown in Figure 2. The fans are designed to provided between 600 and 800 cfm of attic ventilation at peak solar irradiance (1000 W/m^2) depending on the free soffit ventilation area. The ventilators consist of a 19.5" x 16" mounting with a 10 Watt thin-film PV module. A five bladed radial fan and a direct coupled DC motor provides attic air exhaust. The units were purchased for \$300 each; installation would typically add another \$100 - \$150 per unit.



Figure 2. Photo of PV ventilators.

The home already had a radiant barrier (foil stapled to the roof trusses) with soffit ventilation, but no ridge or other venting. Even with the radiant barrier, however, attic air temperatures of up to 136°F had been measured during the summer leading up to the retrofit.

Analysis

To analyze the impact of the attic ventilators, we looked for several weeks of similar weather in the period before and after the retrofit. Figure 3 shows the measured thermal performance during two matching weather periods. The pre-retrofit period was from July 1st - August 5th; the post period was from August 7th - September 15th. The periods were chosen for their match on average ambient air temperature and solar insolation conditions.

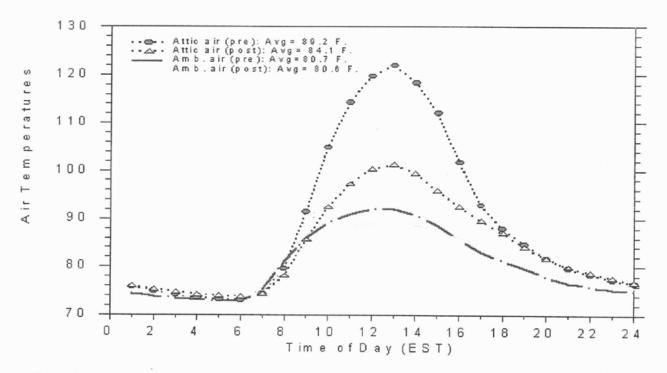


Figure 3. Measured average attic air and ambient air temperatures over the test period before and after retrofit.

The first plot shows a comparison of the ambient air temperatures (blue) before and after the change. The Upper two lines show the difference in the measure attic air temperature before and after the added ventilation. The daily peak attic air temperature is dropped by an average of 22°F. The monitored attic air temperature over the length of the summer clearly shows the impact of the added attic ventilation as shown in Figure 4.

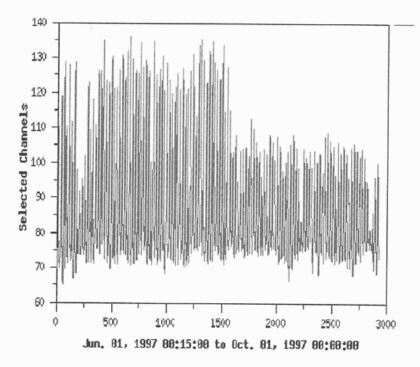


Figure 4. Monitored attic air temperatures over the summer test period.

Air conditioner energy use was also measured over the two periods. The AC consumption was reduced by an average of 6.0% (2.8 kWh/day) by the addition of the ventilators, with the largest difference around mid-day. Afternoon savings were not in evidence although differences were noted in evening hours are likely due to the impact of a greater amount of passive ventilation by having the two free outlet areas new the ridge vent area. The measured space cooling reduction load profile is shown in Figure 5.

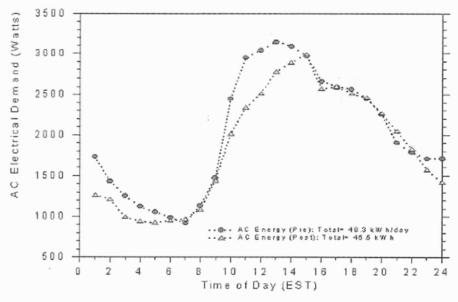


Figure 5. Measured space cooling demand over the summer test period.

Space cooling electricity use was sub-metered at the home for the entire year prior to the retrofit, totaling some 7,730 kWh (not including air handler and electric resistance consumption for space heating). Based on the matching period analysis, estimation of annual space cooling savings are on the order of 460 kWh. These savings have a value of approximately \$37 at current Florida energy prices. Given that the costs for the two units was approximately \$600, or about \$850 installed, the payback of the ventilators is not very favorable at over twenty years. It is important to note that this level of savings comes from a home with a radiant barrier system - savings may be larger for cases without a radiant barriers, in homes with less ceiling insulation or those with the air handler unit located in the attic. On the other hand, the monitored test home used more AC energy than the average Central Florida household and this would tend to overstate savings. (4) One impact had nothing to do with energy: the homeowner noted that interior comfort seemed improved after the retrofit even with no adjustment to the thermostat. This may be due to a change in the interior mean radiant temperature.

Other Influences

Recently, the issue of attic ventilation has become a contentious issue, in part due to the lack of scientific basis for the 1:300 free ventilation rate (Rose, 1995), and measured and simulated influences of ventilation on humidity of attic materials in hot humid climates (Burch et al., 1996; TenoWold and Rose, 1999). The major problem is that passively ventilated attic bring in large amounts of moisture laden air into the attics during evening hours when relative humidity is often high. One intrinsic advantage of the PV ventilation scheme is that the attic is well ventilated only during daytime hours only when considerable insolation is present. Coincidently, these also tend to be periods when the ambient relative humidity is low.

We have already described how PV ventilator fans have no parasitic electricity consumption beyond what is generated by the unit. Most attic ventilators often draw 250 - 300 Watts of electric power when in operation (they are typically triggered on when the attic air temperature reaches $105^{\circ}F$ or more). This level of electrical the (approximately 10% of the peak air conditioner power draw) is greater than the savings in space cooling energy (Burch et al., 1979). One other advantage of the PV ventilators over AC powered units is noise. Although not quantified within our study, we did note that PV vent fans were almost silent in operation compared with the very noticeable fan noise generated by conventional units.

Conclusions

A case study of photovoltaic attic ventilator fans was conducted on an occupied single family home in Central Florida. Two fans were installed at mid-summer in an instrumented home where attic air temperature, meteorological conditions and space cooling electric power were measured. The home already had an attic radiant barrier, but still experienced attic air temperatures in excess of 130°F.

Comparing periods with similar weather conditions, the test revealed that the PV vent fans have the potential to reduce measured peak summer attic air temperatures by over 20°F. However, the impact over the cooling season is fairly modest with well insulated attics. Measured space cooling reduction was approximately 6% - worth about 460 kWh annually at the test home.

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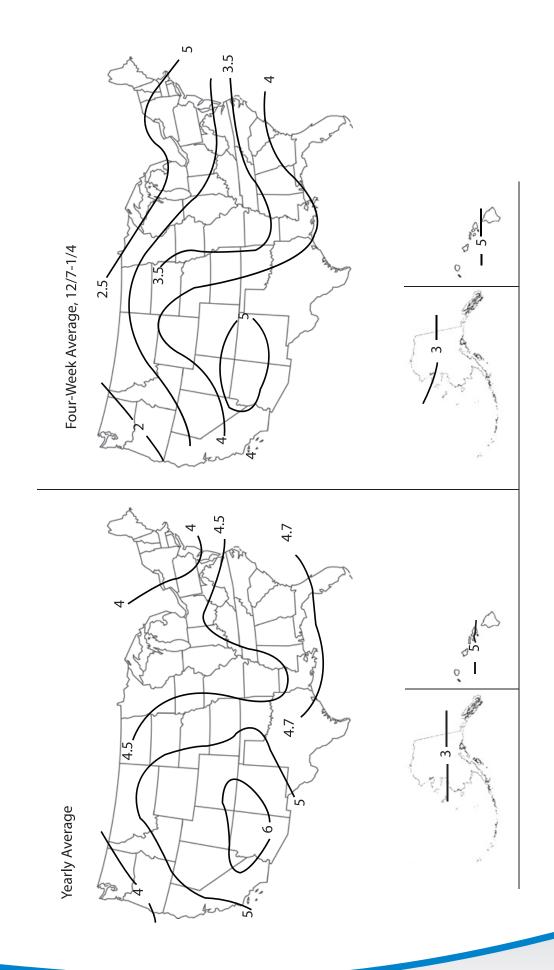
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Sun Hours/Day-Chart

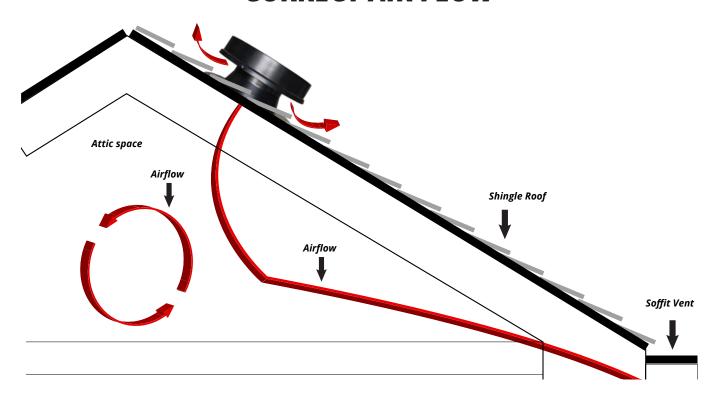
AK AK		_	Low	Avg	State	City	High	Low	Avg
AK	Fairbanks	5.87	2.12	3.99	МО	Columbia	5.50	3.97	4.73
	Matanuska	5.24	1.74	3.55	MO	St. Louis	4.87	3.24	4.38
AL	Montgomery	4.69	3.37	4.23	MS	Meridian	4.86	3.64	4.43
AR	Bethel	6.69	2.37	3.81	MT	Glasgow	5.97	4.09	5.15
AR	Little Rock	5.29	3.88	4.69	MT	Great Falls	5.70	3.66	4.93
AZ	Tuscon	7.42	6.01	6.57	MT	Summit	5.17	2.36	3.99
AZ	Page	7.30	5.65	6.36	NM	Albuquerque	7.16	6.21	6.77
AZ	Pheonix	7.13	5.78	6.58	NB	Lincoln	5.40	4.38	4.79
CA	Santa Maria	6.52	5.42	5.94	NB	N. Omaha	5.28	4.26	4.90
CA	Riverside	6.35	5.35	5.87	NC	Cape Hatteras	5.81	4.69	5.31
CA	Davis	6.09	3.31	5.10	NC	Greensboro	5.05	4.00	4.71
CA	Fresno	6.19	3.42	5.38	ND	Bismark	5.48	3.97	5.01
CA	Los Angeles	6.14	5.03	5.62	NJ	Sea Brook	4.76	3.20	4.21
CA	Soda Springs	6.47	4.40	5.60	NV	Las Vegas	7.13	5.84	6.41
CA	La Jolla	5.24	4.29	4.77	NV	Ely	6.48	5.49	5.98
CA	Inyokem	8.70	6.87	7.66	NY	Binghampton	3.93	1.62	3.16
CO	Grandby	7.47	5.15	5.69	NY	Ithica	4.57	2.29	3.79
CO	Grand Lake	5.86	3.56	5.08	NY	Schenetady	3.92	2.53	3.55
CO	Grand Junction	6.34	5.23	5.85	NY	Rochester	4.22	1.58	3.31
CO	Boulder	5.72	4.44	4.87	NY	New York City	4.97	3.03	4.08
DC	Washington	4.69	3.37	4.23	OH	Columbus	5.26	2.66	4.15
FL	Apalachicola	5.98	4.92	5.49	OH	Cleveland	4.79	2.69	3.94
FL	Belie Is.	5.31	4.58	4.99	OK	Stillwater	5.52	4.22	4.99
FL	Miami	6.26	5.05	5.62	OK	Oklahoma City	6.26	4.98	5.59
FL	Gainsville	5.81	4.71	5.27	OR	Astoria	4.76	1.99	3.72
FL	Tampa	6.16	5.26	5.67	OR	Corvallis	5.71	1.90	4.03
GA	Atlanta	5.16	4.09	4.74	OR	Medford	5.84	2.02	4.51
GA	Griffin	5.41	4.26	4.99	PA	Pittsburg	4.19	1.45	3.28
HI	Honolulu	6.71	5.59	6.02	PA	State College	4.44	2.79	3.91
IA	Ames	4.80	3.73	4.40	RI	Newport	4.69	3.58	4.23
ID	Boise	5.83	3.33	4.92	SC	Charleston	5.72	4.23	5.06
ID	Twin Falls	5.42	3.42	4.70	SD	Rapid City	5.91	4.56	5.23
IL	Chicago	4.08	1.47	3.14	TN	Nashville	5.20	3.14	4.45
IN	Indianapolis	5.02	2.55	4.21	TN	Oak Ridge	5.06	3.22	4.37
KN	Manhattan	5.08	3.62	4.57	TX	San Antonio	5.88	4.65	5.30
KN	Dodge City	4.14	5.28	5.79	TX	Brownsville	5.49	4.42	4.92
KY	Lexington	5.97	3.60	4.94	TX	El Paso	7.42	5.87	6.72
LA	Lake Charles	5.73	4.29	4.93	TX	Midland	6.33	5.23	5.83
LA	New Orleans	5.71	3.63	4.92	TX	Fort Worth	6.00	4.80	5.43
LA	Shreveport	4.99	3.87	4.63	UT	Salt Lake City	6.09	3.78	5.26
MA	E. Wareham	4.48	3.06	3.99	UT	Flaming Gorge	6.63	5.48	5.83
MA	Boston	4.27	2.99	3.84	VA	Richmond	4.50	3.37	4.13
MA	Blue Hill	4.38	3.33	4.05	WA	Seattle	4.83	1.60	3.57
MA	Natick	4.62	3.09	4.10	WA	Richland	6.13	2.01	4.44
MA	Lynn	4.60	2.33	3.79	WA	Pullman	6.07	2.90	4.73
MD	Silver Hill	4.71	3.84	4.47	WA	Spokane	5.53	1.16	4.48
ME	Caribou	5.62	2.57	4.19	WA	Prosser	6.21	3.06	5.03
ME	Portland	5.23	3.56	4.51	WI	Madison	4.85	3.28	4.29
MI	Sault Ste. Marie	4.83	2.33	4.20	WV	Charleston	4.12	2.47	3.65
MI	E. Lansing	4.71	2.70	4.00	WY	Lander	6.81	5.50	6.06
MN	St. Cloud	5.43	3.53	4.53					



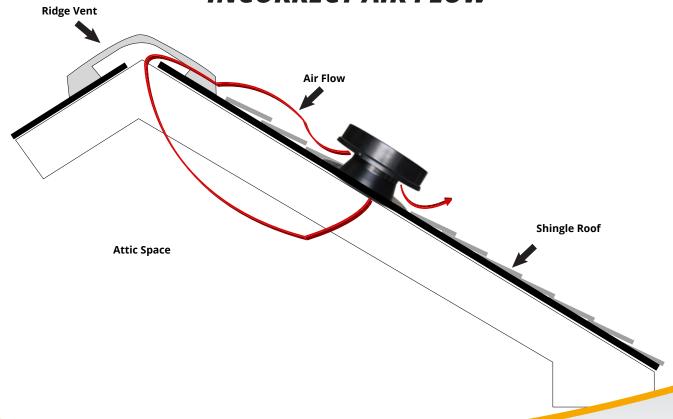


Diagrams & Manages

CORRECT AIR FLOW



INCORRECT AIR FLOW

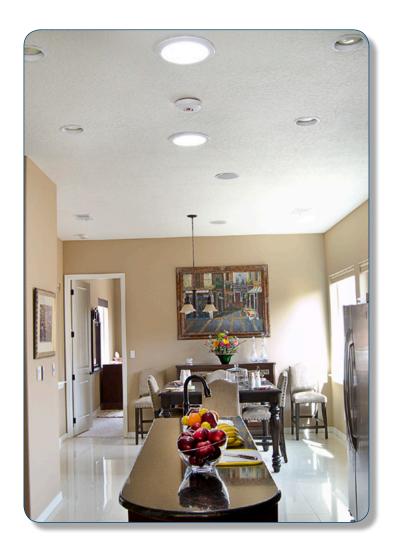




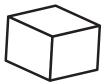












Shipping **Information**These are the *estimated* shipping transit days and charges from our manufacturing facility in Alabama.



Estimated Shipping Charges

Transit days	Attic Fan	Light Fixture	Light Kit
1 Day	\$45	\$30	\$35
2 Days	\$50	\$30	\$40
3 Days	\$60	\$30	\$50
4 Days	\$65	\$35	\$55
5 Days	\$70	\$35	\$60

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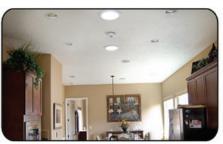






Solaro Day™ Installments







Solaro Day ™ Street Lights Installments











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