

CELEBRATING
20
YEARS

CELEBRATING **20** YEARS OF QUALITY

1992-2012

Leading manufacturer of Solar Powered Attic Fans since 1992



2012-2013

Product Catalog



Solar Dynamics

Super Cyclone

Solar Powered Attic Fans

Quality – Performance – Value - Tradition



<u>What is the Super Cyclone</u>	3
SDF-20SF - (Self Flashed Base)	4
SDF-20CM- (Curb Mount Base)	5
SDF-20TM- (TurbineMount Base)	6
SDF-20GM- (Gable Mount Base)	7
SDF-20RM- (Remote Mount)	8
SDF-20PM- (Pole Mount)	9

Super Cyclone Models

Solar Dynamics has several models to choose from depending on your application, they are:

- **SDF-20SF** (20 Watt Self Flashing) standard type shingles
- **SDF-20CM** (20 Watt Curb Mount) high profile roofing materials such as clay tile or for flat roofs.
- **SDF-20GM** (20 Watt Gable Mount) fits behind standard 16" gable vents.
- **SDF-20TM** (20 Watt Turbine Mount) replaces ball turbine fans and uses existing 12" mount.
- **SDF-20SF-R** (20 Watt Self Flash Remote Panel)
- **SDF-20CM-R** (20 Watt Curb Mounting with Remote Panel)

The remote panels allowsthe installation of the fan in a area that may not have optimal sun light

Tax Credit



U.S. Residents can claim the 30% tax credit on the installed price of qualifying solar system. Solar Dynamics solar powered ventilation products qualify for federal, state, and local tax incentives. Defined as "qualified photovoltaic equipment", our solar attic fans and commercial ventilation products will offer customers between 30-80% in incentives depending on location. Please note that all customers qualify for the federal tax credit of 30% on both the purchase and installation cost of any Solar Dynamics solar attic fan.



Solar Dynamics is an industry leader and has been manufacturing Solar Attic Ventilation Fans since 1992. Located in the Heartland, we are proud to continue to manufacture American made products.

What is Attic Ventilation?

Attic vents are intended to reduce the heat and pressure in an attic by drawing in cooler outside air from attic vents (soffit and gable) and pushing hot air to the outside through a ridge vent or traditional static vents.

Why is Attic Ventilation Important?

During the day your home is affected by compounding heat gain. This process starts by the sun radiating down on your home, the roof, and attic space and its materials conduct this heat. This absorbed heat then radiates in to your home through the ceiling.

This heat can make the interior temperature of your home warmer than it needs to be as well as your A/C running harder to compensate for this extra heat load. As the night falls you continue to be affected by this heat, and your A/C continues to run due to the heat saturation of the insulation, attic material and contents.

This results in higher utility cost and damage to your home. Moisture can build in the attic of your home and can cause damage to the insulation in the attic and over time will become less effective. Moisture can also damage sheet rock and cause mold.

A properly ventilated attic can greatly reduce this and protect your investment in the home.

What is the Super Cyclone?

The Solar Dynamics Super Cyclone fan is a purpose built solar fan that is engineered to run efficiently, last long and look good.

The Super Cyclone is manufactured with the highest quality materials:

- ABS Korad coated plastic that is UV and impact resistant
- Internals are constructed from 304 stainless steel
- Stainless steel mesh screen keeps birds and rodents out
- High quality DC electric motor with replaceable brushes
- High quality 20watt multicrystalline solar panel, made with tempered glass

Our fans will:

- Keep an attic up to 1800 square feet close to ambient outside temperature – and that's just with one Super Cyclone fan!
- Keep your ceiling temperatures as much as 12-15 degrees cooler
- Save on Air Conditioning by as much as 35%
- Help reduce the risk of mold and mildew in your attic



SDF-20SF (Self Flashed Base)



Designed for sloped roof installations on composite shingle or flat roof material. Roof slope should be such that the potential for standing or pooling water is not considered a potential problem. Surface mount models designed for most standard sloped roofs with regular or dimensional shingles.

Slim profile, 7-1/2" high, square design blends in well with angular pattern of shingles. Heavy gauge stainless steel bird and insect screen provides maximum protection from insects and animals without impeding air flow. Specially designed one-piece, 12" aluminum 5-blade fan is pitched for maximum airflow and operates whisper-quiet with no harmonic noise.

- | | |
|--|--|
| <ul style="list-style-type: none"> • 7-1/2" high profile, Flush Mount Design • 20 watt, state-of-the-art solar panel circuitry captures sunlight even on overcast days. Weatherproof panels designed for optimum efficiency constructed of tempered glass to resist hail and extreme weather conditions. • Dome and Base molded with UV-stabilized ABS color-dyed plastic to prevent damage from sunlight and provide greater stability. Low profile, square design integrates well with shingles. • Hurricane rated to 140 mph winds. • Quality hardware used throughout. 16AWG stainless steel brackets and bolt, nuts and self-tapping screws for stability and long life. | <ul style="list-style-type: none"> • Whisper-quiet, direct current, variable voltage, sealed ball bearing and hardened shaft motor with steel motor housing dynamically balanced for superior performance. • Specially designed one piece, 12" aluminum 5 blade fan pitched for maximum air flow. Operates quietly with no harmonic noise. • Heavy gauge, stainless steel bird and rodent screen with 1/8" openings provides maximum protection from insects and animals without impeding air flow. • One unit ventilates attic spaces up to 1800 sq ft • 5 year limited defective parts warranty |
|--|--|

Available Options

Color: Black, Brown, Grey, & White (Special Order)





SDF-20CM (Curb Mount Base)



Designed for curb mount installations. Generally a 2"x 4" or 2"x 6" curb box is built and flashing is attached to the perimeter of the curb box. Curb mount installations should be used on flat or very low slope roofs. Curb mount installations are also recommended for higher profile roofs, such as ceramic or concrete tile, certain metal roofs, thick wood shake, etc. The flashing materials are generally metal, but can be made of certain types of roofing materials. Care should be taken to isolate dissimilar metals and to properly waterproof the curb box to the roof. On top of the curb box, attach weather stripping or two-sided foam tape. Place the SDF-20CM base on top of the curb box and fasten at least two screws on each side into the curb box.

- | | |
|--|---|
| <ul style="list-style-type: none"> • 8-1/2" high profile, Curb mount Design. Designed for steep, tiled, or flat roof installations • 20 watt, state-of-the-art solar panel circuitry captures sunlight even on overcast days. Weatherproof panels designed for optimum efficiency constructed of tempered glass to resist hail and extreme weather conditions. • Dome and Base molded with UV-stabilized ABS color-dyed plastic to prevent damage from sunlight and provide greater stability. Low profile, square design integrates well with shingles. • Hurricane rated to 140 mph winds. | <ul style="list-style-type: none"> • Quality hardware used throughout. 16AWG stainless steel brackets and bolt, nuts and self-tapping screws for stability and long life. • Whisper-quiet, direct current, variable voltage, sealed ball bearing and hardened shaft motor with steel motor housing dynamically balanced for superior performance. • Specially designed one piece, 12" aluminum 5 blade fan pitched for maximum airflow. Operates quietly with no harmonic noise. • Heavy gauge, stainless steel bird and rodent screen with 1/8" openings provides maximum protection from insects and animals without impeding air flow. • One unit ventilates attic spaces up to 1800 sq ft • 5 year limited defective parts warranty |
|--|---|

Available Options

Color: Black, Brown





SDF-20GM (Gable Mount Base)



Our Gable Mount exhaust fan is designed to fit behind a existing 16" gable vent in the attic. In most cases a 2x4 or 2x6 curb will have to be constructed behind the existing vent to mount the product. In some truly older homes the gable vent may be the only ventilation on the home and there is no soffit ventilation what so ever. In cases like this, the addition of soffit ventilation will always be a good idea (where it can be added when there is an over hanging eave that can be reached), if this is not possible an alternate source for intake flow such as air hawks or additional end gable vent will be needed.

- | | |
|--|--|
| <ul style="list-style-type: none"> • 7-1/2" high profile, Flush Mount Design • 20 watt, state-of-the-art solar panel circuitry captures sunlight even on overcast days. Weatherproof panels designed for optimum efficiency constructed of tempered glass to resist hail and extreme weather conditions. • Dome and Base molded with UV-stabilized ABS color-dyed plastic to prevent damage from sunlight and provide greater stability. Low profile, square design integrates well with shingles. • Hurricane rated to 140 mph winds. • Quality hardware used throughout. 16AWG stainless steel brackets and bolt, nuts and self-tapping screws for stability and long life. | <ul style="list-style-type: none"> • Whisper-quiet, direct current, variable voltage, sealed ball bearing and hardened shaft motor with steel motor housing dynamically balanced for superior performance. • Specially designed one piece, 12" aluminum 5 blade fan pitched for maximum air flow. Operates quietly with no harmonic noise. • Heavy gauge, stainless steel bird and rodent screen with 1/8" openings provides maximum protection from insects and animals without impeding air flow. • One unit ventilates attic spaces up to 1800 sq ft • 5 year limited defective parts warranty |
|--|--|

Available Options

Color: Black Only





SDF-20TM (Turbine Mount Base)



Unit designed to fit the base assembly of most 12" wind turbine. Ease of installation is of course the great benefit of this product, utilizing an existing penetration into the home and not disrupting the existing seal. It should be pointed out however that there are certain parameters that must be paid attention to for this installation to be affective.

Good sun exposure, preferably a south-southwest afternoon exposure for optimum fan operation, but because the PV Panel orientation is vertical in this installation it is not 100% necessary. What is essential is proper elevation of the fan in relation to the ridgeline of the home. Easy installation.

- | | |
|--|--|
| <ul style="list-style-type: none">• 20 watt, state-of-the-art solar panel circuitry captures sunlight even on overcast days. Weatherproof panels designed for optimum efficiency constructed of tempered glass to resist hail and extreme weather conditions.• Dome and Base molded with UV-stabilized ABS color-dyed plastic to prevent damage from sunlight and provide greater stability. Low profile, square design integrates well with shingles.• Hurricane rated to 140 mph winds.• Quality hardware used throughout. 16AWG stainless steel brackets and bolt, nuts and self-tapping screws for stability and long life. | <ul style="list-style-type: none">• Whisper-quiet, direct current, variable voltage, sealed ball bearing and hardened shaft motor with steel motor housing dynamically balanced for superior performance.• Specially designed one piece, 12" aluminum 5 blade fan pitched for maximum air flow. Operates quietly with no harmonic noise.• Heavy gauge, stainless steel bird and rodent screen with 1/8" openings provides maximum protection from insects and animals without impeding air flow.• One unit ventilates attic spaces up to 1800 sq ft• 5 year limited defective parts warranty |
|--|--|

Available Options

Color: Black Only





Remote Mount



Available with our SDF-20SF Self Flash or SDF-20CM Curb Mount fan. It's primary purpose is to customize your fan location and be able to place the panel for maximum sun exposure.

- | | |
|--|--|
| <ul style="list-style-type: none"> • 7/8" high profile - remote panel. • 20 watt, state-of-the-art solar panel circuitry captures sunlight even on overcast days. Weatherproof panels designed for optimum efficiency constructed of tempered glass to resist hail and extreme weather conditions. • Dome and Base molded with UV-stabilized ABS color-dyed plastic to prevent damage from sunlight and provide greater stability. Low profile, square design integrates well with shingles. • Hurricane rated to 140 mph winds. • Quality hardware used throughout. 16AWG stainless steel brackets and bolt, nuts and self-tapping screws for stability and long life. | <ul style="list-style-type: none"> • Whisper-quiet, direct current, variable voltage, sealed ball bearing and hardened shaft motor with steel motor housing dynamically balanced for superior performance. • Specially designed one piece, 12" aluminum 5 blade fan pitched for maximum air flow. Operates quietly with no harmonic noise. • Heavy gauge, stainless steel bird and rodent screen with 1/8" openings provides maximum protection from insects and animals without impeding air flow. • One unit ventilates attic spaces up to 1800 sq ft • 5 year limited defective parts warranty |
|--|--|

Available Options

Mounting Option: Self Flashed & Curb Mount

Colors: Black, Brown & Grey





SDF-20RP (Pole Mount)



Its primary purpose is to provide the most flexibility in installation of the solar panel with the SDF-20SF and SDF-20CM models. Installation of the PV panel is fairly simple and straight forward

- | | |
|--|---|
| <ul style="list-style-type: none"> • 7/8" high profile - remote panel. • 20 watt, state-of-the-art solar panel circuitry captures sunlight even on overcast days. Weatherproof panels designed for optimum efficiency constructed of tempered glass to resist hail and extreme weather conditions. • Dome and Base molded with UV-stabilized ABS color-dyed plastic to prevent damage from sunlight and provide greater stability. Low profile, square design integrates well with shingles. • Hurricane rated to 140 mph winds. • Quality hardware used throughout. 16AWG stainless steel brackets and bolt, nuts and self-tapping screws for stability and long life. | <ul style="list-style-type: none"> • Whisper-quiet, direct current, variable voltage, sealed ball bearing and hardened shaft motor with steel motor housing dynamically balanced for superior performance. • Specially designed one piece, 12" aluminum 5 blade fan pitched for maximum airflow. Operates quietly with no harmonic noise. • Heavy gauge, stainless steel bird and rodent screen with 1/8" openings provides maximum protection from insects and animals without impeding air flow. • One unit ventilates attic spaces up to 1800 sq ft • 5 year limited defective parts warranty |
|--|---|

Available Options

Colors: Black, Brown & Grey





Solar Dynamics

*Super Cyclone
Solar Powered Attic Fans*

CELEBRATING 20 YEARS OF QUALITY