

Quality You Can Trust...From North America's Largest Roofing Manufacturer!™

gaf.com



HIGH-POWERED SOLAR ROOF VENT

Pages 12-13



ALSO FEATURING
NEW
COBRA® INTAKEPRO®
ROOFTOP
INTAKE VENT

THE CONTRACTOR-FRIENDLY INTAKE VENT

Paaes 24–25





TRUSTED FOR OVER 20 YEARS!







Visit gaf.com/VentCalculator to calculate the amount of Cobra® and Master Flow® Vents for your next job!

Attic Ventilation Is Good Business Practice

Cobra® and Master Flow® Attic Ventilation Products offer a wide array of solutions designed for virtually any climate and provide excellent resistance against rain and snow infiltration!

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Energy Efficiency

GAF offers a wide array of energy-saving ventilation solutions that cool your attic while helping reduce the use of precious natural resources. Use these helpful icons below, found throughout the brochure, to help select the right ventilation option to meet your needs:



Solar powered – runs off the sun instead of electricity



Contains recycled content



Ventilates without the need for any external power

Install industry-leading Cobra® and Master Flow® Attic Ventilation products to ensure a continuous flow of outside air through the attic, help lower living space temperatures, protect the roof structure, and potentially help to lower the home's energy bills.

Proper attic ventilation consists of a balance between air intake (at your eaves or soffits) and air exhaust (at or near your roof ridge). The Federal Housing Administration recommends a **minimum** of at least 1 square foot of attic ventilation (both intake and exhaust) for every 300 square feet of attic space.

GAF Cobra® and Master Flow® Ventilation Products offer a wide array of effective ventilation solutions, including attic, whole house, and foundation ventilation. In addition, Cobra® and Master Flow® ventilation products are backed by GAF, North America's largest roofing and ventilation manufacturer, and have even earned the Good Housekeeping Seal!**

So, to help eliminate hassles and deliver long-lasting ventilation performance, select two of the industry's most trusted ventilation brands, Cobra® and Master Flow®, for your next home ventilation project.



Cobra® is one of the most trusted brands in attic ventilation...

protecting millions of homes since 1991! Offering a wide array of high-performance ridge and intake venting solutions for virtually any climate, Cobra® products are designed with the contractor in mind. From the unique EasyTear™ Sizing Feature (available on Cobra® plastic vents) to the Smart Nail™ Fasteners (available on Cobra® Exhaust Vent), Cobra® products help ensure a fast, easy installation. Cobra® Attic Ventilation Products are part of the GAF Lifetime Roofing System and are covered by up to a Lifetime Itd. Warranty.* They've even earned the Good Housekeeping Seal!**



A leading brand in the roofing industry for off-ridge ventilation...

Master Flow® Attic Ventilation includes a complete line of roof louvers, turbines, intake vents, electric vents, and innovative Green Machine™ solar-powered vents. From extra-wide nailing flanges and pre-drilled fastener holes to 100% factory-tested motors, contractors and property owners alike can be confident in their long-term performance and reliability. Plus, they're backed by GAF, North America's Largest Roofing Manufacturer, and have also earned the Good Housekeeping Seal! **

*See GAF Shingle & Accessory Ltd. Warranty for complete coverage and restrictions. The word "Lifetime" refers to the length of coverage provided by the GAF Shingle & Accessory Ltd. Warranty and means as long as the original individual owner(s) of a single-family detached residence [or the second owner(s) in certain circumstances] owns the property where the shingles and accessories are installed. For owners/structures not meeting the above criteria, Lifetime coverage is not applicable. Lifetime Itd. warranty on accessories requires the use of at least three qualifying GAF accessories and the use of Lifetime Shingles.



*Cobra® and Master Flow® Attic Ventilation products have earned the prestigious Good Housekeeping Seal, which means that Good Housekeeping stands behind these products. (Refer to Good Housekeeping Magazine for its consumer protection policy. Applicable in U.S. only.)

Attic Ventilation Calculator

Calculating How Much Ventilation to Install:*

Example: Calculating the number of lineal feet of Cobra® Exhaust Vent (Hand Nail) needed for a $30' \times 40'$ attic:

- Step 1 Calculate attic square footage

 How: Multiply length of attic (in feet) times width of attic (in feet)

 30' x 40' = 1,200 square feet
- Step 2 Calculate NFA (Net Free Area) needed for this attic by using the "1 in 300" rule

 How: Divide attic square footage by 300

 1,200 sq. ft. ÷ 300 = 4 square feet of NFA needed
- Step 3 Convert square feet of NFA to square inches
 How: Multiply square feet of NFA by 144
 4 sq. ft. x 144 = 576 square inches of NFA needed
- tep 4 Split the amount of NFA needed equally between the intake and the exhaust

 How: Divide square inches of NFA needed by 2

 576 sq. in. ÷ 2 = 288 square inches of NFA needed equally for exhaust & intake
- itep 5 Calculate number of feet of Cobra® Exhaust Vent (Hand Nail)

How: Divide the square inches of NFA needed at the ridge by the NFA of the Cobra® Exhaust Vent (Cobra® Exhaust Vent is 16.9 sq. inches of NFA per lineal foot)

288 sq. in. ÷ 16.9 = 17 lineal feet

This attic requires 17 lineal feet of Cobra® Exhaust Vent to meet the "1 in 300" attic ventilation rule

Remember: Always have a balanced ventilation system. In no case should the amount of exhaust ventilation exceed the amount of intake ventilation.

*Calculations are based on 1 square foot of net free ventilating opening for every 300 square feet of insulated ceiling with a vapor barrier. Some building codes require 1:150 if there is no vapor barrier. Always consult local building codes for other ventilation requirements.

Ridge Ventilation

Ridge Vents

The best overall value in attic ventilation, ridge vents combine a low installed cost with exceptional aesthetics. They ventilate at the most effective location on the roof – the ridge. GAF offers a full line of ridge vents for use in virtually any climate.

See page 7 for usage recommendations.





Codes below apply to all Cobra® 4-Foot Plastic Ridge Vents





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*See GAF Shingle & Accessory Ltd. Warranty for complete coverage and restrictions. The word "Lifetime" refers to the length of coverage provided by the GAF Shingle & Accessory Ltd. Warranty and means as long as the original individual owner(s) of a single-family detached residence [or the second owner(s) in certain circumstances] owns the property where the shingles and accessories are installed. For owners/structures not meeting the above criteria, Lifetime coverage is not applicable. Lifetime Itd. warranty on accessories requires the use of at least three qualifying GAF accessories and the use of Lifetime Shingles.

Cobra® Rigid Vent 3™

Exhaust Vent For Roof Ridge



Available In Warmer Climates

- **Vents The Attic...** Allows heat & condensation to escape at the most effective location the ridge
- Effective... Provides 18 sq. inches per lineal foot of net free ventilating area
- Cap Shingle Compatible... Available in two widths to work with 12" or 10" width ridge cap shingles
- Easy Sizing... EasyTear™ feature allows you to hand-tear product in 3" increments no knives necessary and less waste!
- Fewer Call-Backs... External baffles help deflect wind and rain
- Fits Better... Extra-flexible hinge design allows installation on 3:12 to 16:12 sloped roofs
- Peace Of Mind... Up to a Lifetime ltd. warranty when installed on Lifetime Shingle roofs*

Note: Not available in Canada



Cobra® Rigid Vent 3™ (11.5 inch) Item Code: 2018000CU Size: 11.5" x 4' Cobra® Rigid Vent 3™ (9 inch) Item Code: 2035000CU Size: 9" x 4'

Cobra® Snow Country™

Exhaust Vent For Roof Ridge

Lifetime Lig. Warranity IERM

Available In Colder Climates

- Vents The Attic... Allows heat & condensation to escape at the most effective location — the ridge
- **Effective...** Provides 18 sq. inches per linear foot of net free ventilating area
- Snow Guard™ Filter... Helps prevent snow infiltration in harsh winter weather
- Easy Sizing... EasyTear™ feature allows you to hand-tear product in 3" increments no knives necessary and less waste!
- Fewer Call-Backs... External baffles help deflect wind and rain
- Fits Better... Extra-flexible hinge design allows installation on 3:12 to 16:12 sloped roofs
- Peace Of Mind... Up to a Lifetime ltd. warranty when installed on Lifetime Shingle roofs*

Note: Not available in Canada



Cobra® Snow Country™ (11.5 inch) Item Code: 2027000CU Size: 11.5" x 4'

Cobra® Snow Country Advanced™



Exhaust Vent For Roof Ridge

Available In Colder Climates

- **Vents The Attic...** Allows heat & condensation to escape at the most effective location the ridge
- Effective... Provides 18 sq. inches per lineal foot of net free ventilating area
- Snow Guard™ Filter... Helps prevent snow infiltration in harsh winter weather
- Cap Shingle Compatible... Available in two widths to work with 12" or 10" width ridge cap shingles
- Easy Sizing... EasyTear™ feature allows you to hand-tear product in 3" increments no knives necessary and less waste!
- Fits Better... Extra-flexible hinge design allows installation on 3:12 to 16:12 sloped roofs
- Peace Of Mind... Up to a Lifetime ltd. warranty when installed on Lifetime Shingle roofs*



Cobra® Snow Country Advanced™ (11.5 inch) Item Code: 2028000CU Size: 11.5" x 4' Cobra® Snow Country Advanced™ (9 inch) Item Code: 2037000CU Size: 9" x 4'

Ridge Ventilation

Cobra® Ridge Runner®

Exhaust Vent For Roof Ridge



Cobra® Exhaust Vent

Exhaust Vent For Roof Ridge



Cobra® Ridge Runner® offers the performance of a baffled rigid vent with the ease of installation typically found in a roll ridge vent. It features a shingle-over design to blend into the ridge line.

Available In All Climates

- Vents The Attic... Allows heat & condensation to escape at the most effective location — the ridge
- Effective... Cobra® Ridge Runner® provides 12.5 sq. inches per lineal foot of net free ventilating area
- Weather Fighter™ Filter... Helps prevent all types of weather infiltration
- Fast & Easy To Install... Fully nail-gunable; simply roll out and fasten with included 13/4" coil nails
- Easy Sizing... EasyTear™ feature allows you to hand-tear product in 12" increments — no knives necessary and less waste!
- Fits Better... Extra-flexible hinge allows installation on 3:12 to 16:12 sloped roofs
- Ridge Cap Compatible... Works with 12" width ridge cap shingles
- Peace Of Mind... Up to a Lifetime ltd. warranty when installed on Lifetime Shingle roofs*



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The original Cobra® ridge vent, protecting over 2 million homes, comes on a mesh roll for fast and easy installation with no complicated fitting, wrapping, nail gun adapters, connectors, or end-plugs needed. It features a shingle-over design to help blend into the ridge line.

Available In All Climates

- Vents The Attic... Allows heat & condensation to escape at the most effective location — the ridge
- Great Performance... Provides 16.9 sq. in./lineal foot (hand nail) or 14.1 sq. in./lineal foot (nail gun) of net free ventilating area
- Nails Included... Includes Smart Nails™ for reliable hand installation or 13/4" coil nails for nail gun installation
- Easy To Install... Quick 3-step process on roof slopes between 2:12 and 20:12
- Ridge Cap Compatible... Options available for 10", 12", and 11.75" (metric) width ridge cap shingles
- Peace Of Mind... Up to a Lifetime ltd. warranty when installed on Lifetime Shingle roofs*



Model No.	Size	Installation Type
2017	20' x 8" (nail gun)	
2008	20' x 8" (hand nail)	
2005	20' x 10.5"	(nail gun)
2000	20' x 10.5"	(hand nail)
2016	50' x 10.5"	(nail gun)
2050	50' x 10.5"	(hand nail)
2011	20' x 11.75" (metric)	(hand nail)





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Master Flow® 10' Aluminum Ridge Vent - AR10

Durable aluminum construction with built-in baffle ventilates the attic while helping to prevent moisture infiltration.

- Quality-Built... For long life on the roof
- Excellent Performance... Wide, free-flow drainage areas
- Easy Installation... Aluminum sections with pre-punched nail holes install quickly with strap and end/connector plug accessories
- Watertight... Built-in weather baffle helps prevent moisture infiltration for slopes from 3:12 to 12:12
- Good Ventilator... Provides 21.5 sq. in. per lineal foot of net free ventilating area



Black	Brown	White	Description	
AR10BL	AR10BR	AR10W	10' Ridge Vent (Std.	
AR10BLH†	AR10BRH†	AR10WHH†	10' Ridge Vent (Heavy)	
ARSBL	ARSBR	ARSW	Joint Straps	
ARCP			End/Connector Plugs	



†AR10H Heavy Model Only

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USAGE RECOMMENDATIONS (Based on 1/300 Rule)

Cobra® Rigid Vent 3[™], Cobra® Snow Country[™] & Cobra® Snow Country Advanced™

Total Attic Square Footage	Recommended Length Of Cobra® 4' Plastic Rigid Vents (Feet)	Minimum Intake Ventilation (Net Free Area In Sq. In.)
1600	22	396
1900	26	468
2200	30	540
2500	34	612
2800	38	684
3100	42	756
3400	46	828

Cobra Ridae Runner®

3		
Total Attic Square Footage	Recommended Length Of Cobra® Ridge Runner® (Feet)	Minimum Intake Ventilation (Net Free Area In Sq. In.)
1600	31	388
1900	37	463
2200	43	538
2500	48	600
2800	54	675
3100	60	750
3400	66	825

Cobra® Exhaust Vent

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	Total Attic Square Footage	Recommended Length Of Cobra® Exhaust Vent (Feet)*	Minimum Intake Ventilation (Net Free Area In Sq. In.)*
	1600	23/28	389/395
	1900	27/33	457/466
	2200	32/38	541/536
	2500	36/43	609/607
	2800	40/48	676/677
	3100	45/53	761/748
	3400	49/58	829/818

*Note: First figure pertains to hand nail. Second figure pertains to nail gun.

Master Flow® 10' Aluminum Ridge Vent

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Total Attic Square Footage	Recommended Length Of 10' Aluminum Ridge Vent — AR10 (Feet)	Minimum Intake Ventilation (Net Free Area In Sq. In.)
1600	18	387
1900	22	473
2200	25	538
2500	28	602
2800	32	688
3100	35	753
3400	38	817
	Total Attic Square Footage 1600 1900 2200 2500 2800 3100	Square Footage Aluminum Ridge Vent — AR10 (Feet) 1600 18 1900 22 2200 25 2500 28 2800 32 3100 35

Note: Always have a balanced attic ventilation system. The amount of exhaust ventilation should NEVER exceed the amount of

Cobra[®] Hip Ventilation

Hip Vents

Over the past 25–30 years, the changing architecture and design of homes in North America has, in some cases, made ridge venting impractical. Hip vents install and look similar to typical ridge vents but provide an exhaust venting alternative on the hip areas of the roof.

Cobra® Hip Vent

Exhaust Vent For Hip Roofs

- A True Solution... For providing safe and effective ventilation on roofs with little or no ridge area
- Fast & Easy To Install... Fully nail-gunable for fast vent and cap shingle installation; includes 3 coils of 13/4" nails
- **Effective...** Provides 9 sq. inches per lineal foot of net free ventilation area
- Maximum Protection... Rigorously tested under extreme conditions to resist snow, wind, and rain infiltration[†]
- **Versatile Installation...** Designed for use on 3-tab strip, laminate, and designer asphalt shingle roofs
- Fits Great... Extraflexible hinge hugs the roof tightly and allows for installation on 3:12 12:12 hip roof slopes
- Cap Shingle Compatible... Works with 12" width ridge cap shingles
- Peace Of Mind... Up to a Lifetime ltd. warranty when installed on Lifetime Shingle roofs*

†Under controlled laboratory conditions

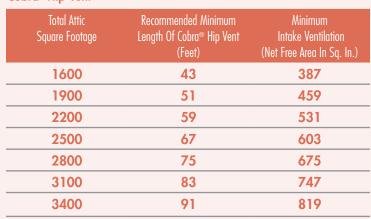


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USAGE RECOMMENDATIONS (Based on 1/300 Rule)

Cobra® Hip Vent



Note: Always have a balanced attic ventilation system. The amount of exhaust ventilation should NEVER exceed the amount of intake ventilation.

Important: Do NOT install on roof ridge. Cobra® Hip Vent must only be installed on hips.



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Power Vents

Available in both roof and gable mount, power vents may cost more to install than other types of attic vents, but they exhaust the greatest volume of hot and/or humid air from the attic—which in turn can help save more on energy costs.

See page 11 for available colors, specifications, and limited warranty coverage.

Power Attic Vents -**Roof Mount**

All Master Flow® Roof-Mounted Power Attic Vents are factory-tested before shipment and include rigid brackets and a heavy-duty insect/ animal screen for maximum performance and protection.

- **High Efficiency...** PSC (permanent split capacitor) motor uses less energy than typical competitors' units*
- Better Looking... Compact size with hemmed dome for
- Available in Popular Colors... To complement your roof shingles
- Adjustable Thermostat... Included on all models
- Optional Adjustable Humidistat/Thermostat... Available on select "HT" models

*Based on GAF testing at 120 volts







Florida Approve

Power Attic Vents-Gable Mount

Master Flow® Gable-Mounted Power Attic Vents are the easiest power ventilators to install and won't detract from the look of the finished roof. They're factory-tested prior to shipment and are manufactured with durable 100% rust-resistant metal construction.

- High Efficiency... PSC (permanent split capacitor) motor provides maximum operating efficiency
- Adjustable Thermostat... Included on all models
- Optional Adjustable Humdistat/Thermostat... Available on EGV6HT model





Power Attic Vent Accessories

Power Attic Vent Automatic Shutter - Gable Mount **SGM 20**

- Versatile... Use with all power gable vents
- Automatic... Moving air opens the louvers only when the power vent is operating
- Weather-Resistant... When vent is off, shutter helps prevent infiltration of rain, snow, insects, etc.
- Maintenance-Free... White aluminum construction can be painted if desired



Opening Dimensions 16 ¹/₂" x 16 ¹/₂"

Overall Dimensions 19 1/4" x 19 1/4"

Humidistat (Model H1)

- Fully adjustable for all climate conditions
- Can be used with all Master Flow® & previous LL Building Products Inc. Power Vents
- Helps power ventilator reduce damaging attic moisture



Humidistat/Thermostat (Model HT1)

- Fully adjustable for all climate conditions
- Can be used with all Master Flow® & previous LL Building Products Inc. Power Vents
- Helps power vents reduce damaging attic heat & moisture



Replacement Thermostat (Model PT6)

- Automatic and adjustable
- Compatible with all singlespeed Master Flow® & previous LL Building Products Inc. Power Vents
- UL listed



Replacement Motors (not shown)

- Model PVM105 Replaces motor for the following models: PG1, CPG2 (available in Canada only), PG2, PR1, CPR1D, PR1D, CPR2D, PR2D, PR2DHT, ERV & EGV Series
- Model PVM115 -

Replacement motor for the following models: PSG3, PSG3HT, PG3X, PSR10D, PSR10DHT, PR3XD & PRX3DH

PRODUCT SPECIFICATIONS

Choose The Right Master Flow® Power Attic Vent-Roof Mount

	CERV4 [†] , ERV4	CERV5†, ERV5, ERV5HT*	ERV6, ERV6HT*
For Maximum Attic Size (sq. ft. @ 4:12 roof pitch)	1,600	2,200	2,800
Air Flow (CFM)	1,000	1,250	1,500
Minimum Intake Ventilation Needed at Soffits or Fascia, etc. (Net Free Area in sq. in.)	Tend	720	
Energy Usage vs. Competitors' Units**	Up to 55% Less	Up to 55% Less	Up to 15% Less
Roof Pitch Range	2:12 – 12:12	2:12 - 12:12	2:12 - 12:12
Adjustable Thermostat Included	Yes	Yes	Yes
Optional Adjustable Humidistat/ Thermostat Available	-	Yes	Yes
Length of Ltd. Warranty*** (yrs.)	5	5	10
Length of Labor Protection Plus plan*** (yrs.)	2	3	5

Power Attic Vent-Roof Mount Color Availability

Mill	Black	Brown	Weathered Wood	ShingleMatch™ Weathered Wood	
ERV4	ERV4BL	ERV4BR	CERV4WW [†] , ERV4WW	_	
ERV5	ERV5BL	ERV5BR	CERV5WW [†] , ERV5WW	_	
ERV5HT*	ERV5BLHT*	ERV5BRHT*	ERV5WWHT*	-	
_	_	_	_	ERV6SMWW	
_	_	_	_	ERV6SMWWHT*	

Choose The Right Master Flow® Power Attic Vent-Gable Mount

	CEGV5 ¹ , EGV5	EGV6, EGV6HT*
For Maximum Attic Size (sq. ft. @ 4:12 Roof Pitch)	2,300	3,000
Air Flow (CFM)	1,450	1,600
Minimum Intake Ventilation Needed at Soffits or Fascia, etc. (Net Free Area in sq. in.)	696	768
Adjustable Thermostat Included	Yes	Yes
Optional Adjustable Humidistat/ Thermostat Available	-	Yes
Length of Ltd. Warranty*** (yrs.)	5	10
Length of Labor Protection Plus plan*** (yrs.)	3	5

†Available in Canada Only *Includes adjustable humidistat/thermostat

*Based on GAF testing at 120 volts

***See Master Flow® Powered Ventilation Products Ltd. Warranty for complete coverage and restrictions.

Note: Always have a balanced attic ventilation system. The amount of exhaust ventilation should NEVER exceed the amount of

11



Green Machine™ **EcoSmart Vents**

An excellent solution for providing exhaust ventilation while helping to reduce the related attic cooling costs of electric power vents, Master Flow® Green Machine™ EcoSmart Vents are available in both solar-powered and unique dual-powered models.

See page 15 for product specifications and usage recommendations.



High-Power Solar Roof Vent

The Master Flow® Green Machine™ High-Power Solar Roof Vent combines increased airflow (vs. 10-watt solar vents) with excellent aesthetics. Available in two power sources; solar-powered and unique dual-powered.

- **Better Performance...** 750 CFM airflow provides up to 50% more airflow than 10-watt solar roof vents
- Improved Aesthetics... Low-profile design, with integrated blackframe solar panel, helps maintain the look of your finished roof
- Peace of Mind... Standard 6-year ltd. warranty with 3-year Labor Protection Plus plan²
- Simple Installation... Installs practically the same as typical electric power roof vents







Hot, stale attic air is removed through the Master Flow® Green Machine™ High-Power Solar Roof Vents. Fresh air is drawn into the attic through the soffit (or other) intake vents.



AVAILABLE IN TWO MODELS

Solar-Powered Model (PRSOLAR2)

Helps reduce attic cooling costs!

- 20-watt integral solar panel
- Up to 750 CFM airflow
- Includes adjustable thermostat/humidistat (below)



Note: Also available SLRM105 replacement motor (not pictured)

Dual-Powered Model (PRHYBRID2)

Unique Dual-Power technology for 24/7 cooling switches automatically between solar and house power for continuous cooling during cloudy weather or at night.

- 20-watt integral solar panel • Up to 750 CFM airflow on
- solar power, 900 CFM on house power
- Uses 1/6th the electricity of typical electric power vents
- Includes adjustable thermostat (below)



USAGE RECOMMENDATIONS (Based on 1/300 Rule)

Master Flow® Green Machine™ High-Power Solar Roof Vents

Total Attic Square Footage	Recommended Number Of Master Flow® Green Machine™ High-Power Solar Vents	Minimum Intake Ventilation (Net Free Area In Sq. In.)
1600	2	720
3200	3	1080
4800	5	1800

Note: Always have a balanced attic ventilation system. The amount of exhaust ventilation should NEVER exceed the amount of

Based on GAF ASHRAF/ANSI standard girllow testing ²See Master Flow® Powered Ventilation Products Ltd. Warranty for complete coverage and restrictions

Solar-Powered EcoSmart Roof Vent

(PRSOLAR1)

The Master Flow® Green Machine™ Solar-Powered EcoSmart Roof Vents require no extra wiring or expensive, hard-to-schedule electricians, and are fully solar-powered to eliminate related cooling costs.

- Energy Efficient... Fully solar-powered to eliminate related utility costs
- Great Performance... Up to 500 CFM1
- Improves Ventilation Systems... More effective than (and a great replacement for) roof louvers
- **Durable...** Solar panel tested for impact resistance as per UL 507
- Fully Adjustable Solar Panel... Tilt-and-swivel design for optimal performance
- **Peace of Mind...** Backed by 5-year ltd. warranty with 2-year Labor Protection Plus plan²







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Solar-Powered EcoSmart Gable Vent

(PGSOLAR1)

- Great Performance... Up to 500 CFM¹
- **Durable...** Solar panel tested for impact resistance as per UL 507
- Adjustable Solar Panel... Panel can be tilted for optimum performance

• **Peace of Mind...** Backed by 5-year ltd. warranty with 2-year Labor Protection Plus plan²



Dual-Powered EcoSmart Roof Vent

(PRHYBRID 1)

Its unique technology switches automatically between solar and house power for 24/7 cooling (when the sun is out or not!) and it uses up to 80% less electricity than typical electric-powered ventilators when on house power.

- Thermostat Controlled... For efficient operation
- Great Performance... Up to 500 CFM¹ in solar operation;
 750 CFM¹ in AC operation for excellent airflow
- Durable... Solar panel tested for impact resistance as per UL 507
- Fully Adjustable Solar Panel... Tilt-and-swivel design for optimal performance





State of Florida Approve FL5027



Texas Department of Insurance Product Evaluation RV-62

Solar-Powered EcoSmart Ridge Vents

(SRV1)

An industry first, Solar-Powered EcoSmart Ridge Vents combine the low attic cooling costs of a solar-powered vent with the superior aesthetics of a ridge vent.

- Improves Your Ventilation System... More effective than (and a great replacement for) roof louvers or turbine-style vents
- **Vents The Attic...** 750 CFM¹ for excellent airflow; up to 25 times more airflow than typical stand-alone ridge vents
- No-Hassle Operation... No extra wiring or expensive, hard-to-schedule electricians needed
- **Durable...** Solar panel tested for impact resistance as per UL 507
- Temperature Adjustable... Thermostat included





Unit Size: 14" wide x 18" tall Solar Panel Size: 2 panels - 24" x 7" each

PRODUCT SPECIFICATIONS

Choose The Right Master Flow® Green Machine™ EcoSmart Vent

PRSOLAR1	PRSOLAR2	PRHYBRID1	PRHYBRID2	PGSOLAR1	SRV1
Solar power	Solar power	Dual power	Dual power	Solar power	Solar power
Roof mount	Roof mount	Roof mount	Roof mount	Gable mount	Ridge
500	750	500 Solar, 750 House Power	750 Solar, 900 House Power	500	750
10	20	10	20	10	20 (2@10)
2:12-12:12	2:12-12:12	2:12-12:12	2:12-12:12	n/a	3:12-12:12
Yes	No, integral	Yes	No, integral	Yes	Yes
-	Combo T-Stat/H- Stat	T-Stat	T-Stat	-	T-Stat
5	6	5	6	5	5
2	3	2	3	2	2
	Solar power Roof mount 500 10 2:12-12:12 Yes - 5	Solar power Solar power Roof mount Roof mount 500 750 10 20 2:12-12:12 2:12-12:12 Yes No, integral - Combo T-Stat/H-Stat 5 6	Solar power Solar power Dual power Roof mount Roof mount Roof mount 500 750 500 Solar, 750 House Power 10 20 10 2:12-12:12 2:12-12:12 2:12-12:12 Yes No, integral Yes - Combo T-Stat/H-Stat T-Stat 5 6 5	Solar power Solar power Dual power Dual power Roof mount Roof mount Roof mount Roof mount 500 750 500 Solar, 750 House Power 900 House Power 10 20 10 20 2:12-12:12 2:12-12:12 2:12-12:12 2:12-12:12 Yes No, integral Yes No, integral - Combo T-Stat/H-Stat T-Stat T-Stat 5 6 5 6	Solar power Solar power Dual power Dual power Solar power Roof mount Roof mount Roof mount Roof mount Gable mount 500 750 500 Solar, 750 House Power 750 Solar, 900 House Power 500 10 20 10 20 10 2:12-12:12 2:12-12:12 2:12-12:12 n/a Yes No, integral Yes No, integral Yes - Combo T-Stat/H-Stat T-Stat T-Stat - 5 6 5 6 5

^{*}See Master Flow® Powered Ventilation Products Ltd. Warranty for complete coverage and restrictions.

USAGE RECOMMENDATIONS (Based on 1/300 Rule)

Master Flow® Green Machine™ Solar-Powered EcoSmart Roof & Gable Vents (PRSOLAR1) & (PGSOLAR1)

Total Attic Square Footage	Recommended Number Of EcoSmart Solar Vents (PRSOLAR1 & PGSOLAR1)	Minimum Intake Ventilation (Net Free Area In Sq. In.)
1600	2	480
2400	3	720
3200	4	960

Master Flow® Green Machine™ Dual-Powered EcoSmart Roof Vent (PRHYBRID1)

Total Attic Square Footage	Recommended Number Of Dual-Powered EcoSmart Vents (PRHYBRID1)	Minimum Intake Ventilation (Net Free Area In Sq. In.)
1600	2	480
2400	3	720
3200	4	960

Master Flow® Green Machine™ Solar-Powered EcoSmart Ridge Vents (SRV1)

Total Attic Square Footage	Recommended Number Of Solar-Powered EcoSmart Ridge Vents (SRV1)	Minimum Intake Ventilation (Net Free Area In Sq. In.)
1600	2	720
2400	3	1080
3400	4	1440

Note: Always have a balanced attic ventilation system. The amount of exhaust ventilation should NEVER exceed the amount of intake ventilation

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¹Based on GAF ASHRAE/AINSI standard airflow testing.
²See Master Flow[®] Powered Ventilation Products Ltd. Warranty for complete coverage and restrictions



Roof Louvers

For contractors who prefer roof louvers (or where existing roof louvers are being replaced), Master Flow® offers a complete line of quality options, including metal (aluminum or galvanized), plastic, slant-back, or squaretop designs.

See page 19 for product specifications and usage recommendations.



SSB960A / SSB960G

Slant-Back Metal Roof Louver

Our best <u>metal</u> roof louver, with fully enclosed hood to help prevent rodent/insect infiltration and leaf/pine needle clogging.

- Slant-Back Design For Optimum Performance... An excellent choice against weather infiltration, especially in steep-slope applications
- Long-Lasting Construction... Available in aluminum construction (SSB960A) or galvanized construction (SSB960G)
- 20% More Ventilating Capacity*... A full 60 sq. in. of net free ventilating area (NFA) per vent
- Optional Weather Filter... helps resist virtually all types of weather infiltration (available on aluminum model SSB960AVVF)
- ullet Lower Installation Costs... Fewer vents needed for installation *
- Easy Installation... Pre-drilled nail holes make installation easier
- Popular Colors Available... to complement most roofs:
 Aluminum: Mill, Black, Brown, Weathered Wood, White and Shingle Match™ Weathered Wood

Aluminum with Weather Filter: Mill, Black, Brown, Weathered Wood, and White

Galvanized: Black, Brown, and Weathered Wood **Granule Coated:** Black, Brown, Weathered Wood, and Shakewood







Texas Department of Insurance Product Evaluation RV-3 State of Florida Approve

IR65

Slant-Back Plastic Roof Louver

Our best <u>high-impact plastic resin</u> roof louver with superior resistance against dents and scratches.

- Slant-Back Design For Optimum Performance... An excellent choice against weather infiltration, especially in steep-slope applications
- High-Impact Plastic Resin Construction...

 With UV inhibitors to maintain consistent color.
- 30% More Ventilating Capacity*...
 A full 65 sq. in. of net free ventilating area (NFA) per vent
- Lower Installation Costs... Fewer vents needed for roof installation*
- 4 Popular Colors... To complement most roofs (Black, Brown, Gray, Weathered Wood)
- **Professional's Choice...** 12% larger flashing with pre-drilled nail holes makes installation easier; helps prevent leaks
- **Unique, Built-In Screen...** Helps deter bird and rodent infiltration; prevents clogging from leaves and pine needles
- Hood Stays In Place... Hood is securely snapped in place (rather than tacked) to reduce chance of blow-off





Texas Department of Insurance Product Evaluation RV-6

RT65

Square-Top Plastic Roof Louver

- Large Capacity... Full 60 sq. in. of net free ventilating area (NFA) per vent
- Less Hassles... Scratch, crush, and dent resistant
- 4 Popular Colors... To complement most roofs (Black, Brown, Gray, Weathered Wood)
- Easy To Install... Pre-drilled nail holes with extra-wide flashing area
- Homeowner's Choice... High-impact plastic resin construction looks great for years
- UV Inhibitors... Help to maintain consistent color





Texas Department
of Insurance
roduct Evaluation RV-61

17

^{*}Compared to 50 sq. in. NFA vents

†Aluminum models only

^{*}Compared to 50 sq. in. NFA vents

IR61

Slant-Back Plastic Roof Louver

- Sleek Design... Low profile for better appearance
- Good Ventilator... Full 37 sq. in. of net free ventilating area (NFA) per vent
- Homeowner's Choice... High-impact plastic resin construction looks great for years
- 4 Popular Colors... To complement most roofs (Black, Brown, Gray, Weathered Wood)
- Easy To Install...
 Pre-drilled nail holes
 make installation easier
- **UV Inhibitors...** Help to maintain consistent color



RV50A/RV50G & R50A

Square-Top Metal Roof Louvers

- **Perfect Utility Vents...** For kitchen duct outlets, bathroom fan exhausts, and attic ventilation
- Large Capacity... Full 50 sq. in. of net free ventilating area (NFA) per vent
- Optional Throat Design
 & Construction Available...

Round Throat: Aluminum (RV50A) or

galvanized (RV50G)

Square Throat: Aluminum (R50A)

 Popular Colors... To complement most roofs (Black, Brown, Mill, Weathered Wood)



Gable Louvers – Intake /Exhaust Ventilation

Aluminum & Plastic Gable Louvers

DA & SL Series

For use in intake or exhaust applications, Master Flow® offers a line of versatile plastic and aluminum gable louvers, as well as the perfect solution for hard-to-ventilate or restricted areas — our circular louvers. (See page 19 for sizes and specifications)

- Aluminum Gable Louvers... Available in painted white or unfinished metal (DA Series)
- Thermoformed Plastic Gable Louvers... One-piece integral louvered construction provides exceptional strength and eliminates the need for a screen (SL Series)
- **Sleek Design...** For flush or recessed installation! (See page 19 for sizes and specifications)







 $Thermoformed\ plastic\ construction\ shown$



(Aluminum only)

RLSC Plastic Circular Louvers

RLSC Series

Recommended for hard-to-ventilate or other restricted areas

- Easy To Install... Just cut appropriate-sized hole and snap in place!
- One-Piece Design... White, high-impact plastic construction for long life
- **Durable...** Contains UV inhibitors for long-lasting durability
- **Versatile...** Available in 2", 3", or 4" sizes



HCD144

High-Capacity Dome Vent

- High-Capacity... 144 sq. inches of Net Free Area helps exhaust hot and moist air from the attic
- Easy to Install... Installs like a typical roof vent and without the need for electrical hook-up
- \bullet Three Popular Colors... Black, Weathered Wood, and Mill
- **Durable Construction...** Galvanized steel with included heavy-duty internal screen

PRODUCT SPECIFICATIONS & USAGE RECOMMENDATIONS (Based on 1/300 Rule)

SSB960A / SSB960G

Total Attic Square Footage	Recommended Number Of SSB960 Louvers	Minimum Intake Ventilation (Net Free Area In Sq. In.)
0-1000	4	240
1001-1500	6	360
1501-2000	8	480
2001-2500	10	600
2501-3000	12	720

R65

Total Attic Square Footage	Recommended Number Of IR65 Louvers	Minimum Intake Ventilation (Net Free Area In Sq. In.)
0-1000	4	260
1001-1500	6	390
1501-2000	8	520
2001-2500	10	650
2501-3000	12	780

RT65

Recommended Number Of RT-65 Louvers	Minimum Intake Ventilation (Net Free Area In Sq. In.)
4	240
6	360
8	480
10	600
12	720
	RT-65 Louvers 4 6 8

IR61

Total Attic Square Footage	Recommended Number Of IR-61 Louvers	Minimum Intake Ventilation (Net Free Area In Sq. In.)
0-1000	7	259
1001-1500	10	370
1501-2000	13	481
2001-2500	17	629
2501-3000	20	740

RV50A/RV50G & R50A

KYSON, KYSOS & KSON		
Total Attic Square Footage	Recommended Number Of RV50/R50 Louvers	Minimum Intake Ventilation (Net Free Area In Sq. In.)
0-1000	5	250
1001-1500	8	400
1501-2000	10	500
2001-2500	12	600
2501-3000	15	750

HCD144

Total Attic Square Footage	Recommended Number Of HCD144 Vents	Minimum Intake Ventilation (Net Free Area in Sq. in.)
0-1000	2	288
1,001 - 1,500	3	432
1,501 - 2,000	4	576
2,001 – 2,500	5	720

Aluminum Gable Louvers

Model Number	Opening Dimensions	Overall Dimensions	NFA(Sq. In.)
DA12x12	12" x 12"	$14^{1}/_{2}^{11} \times 14^{5}/_{8}^{11}$	60
DA12x18	12" x 18"	14 ¹ / ₂ " x 20 ¹ / ₂ "	90
DA14x24	14" x 24"	16 ¹ / ₂ " x 26 ³ / ₈ "	141
DA18x24	18" x 24"	20 ¹ / ₂ " x 26 ³ / ₈ "	181
DA24x30	24" x 30"	26 ¹ / ₂ " x 32 ¹ / ₄ "	302

Note: Add "W" to model number for painted white.

Thermoformed Plastic Gable Louvers

Model Number	Opening Dimensions	Overall Dimensions	NFA(Sq. In.)
SL8x8	8" x 8"	10 ¹ / ₂ " x 10 ¹ / ₂ "	17
SL12x12	12" x 12"	14 ¹ / ₂ " x 14 ¹ / ₂ "	43
SL12x18	12" x 18"	14 ¹ / ₂ " x 20 ¹ / ₂ "	65
SL18x24	18" x 24"	20 ³ / ₄ " x 26 ³ / ₄ "	141

RLSC Series Circular Louvers

Model Number	Size	NFA(Sq. In.)
RLSC2	2"	1.50
RLSC3	3"	3.20
RLSC4	4"	5.17

Note: Always have a balanced attic ventilation system. The amount of exhaust ventilation should NEVER exceed the amount of intake ventilation.

Roof Louver Size & Color Chart

	Brown	Black	Weathered Wood	ShingleMatch™ Weathered Wood		White	Shakewood	Construction	Opening Size	Flashing Dimensions	Height	NFA (Sq. In.)
SSB960A	SSB960ABR	SSB960ABL	SSB960AWW	SSB960ASMWW	-	SSB960AW	-	Aluminum	10"	16" x 20.5"	5 1/2"	60
SSB960AWF	SSB960AWFBR	SSB960AWFBL	SSB960AWFWW	_	_	SSB960AWFW	_	Aluminum w/ Weather Filter	10"	16" x 20.5"	5 1/2"	60
-	SSB960ASCBR	SSB960ASCBL	SSB960ASCWW	_	-	-	SSB960ASCSW	Aluminum w/ Granule Coating	10"	16" x 20.5"	5 1/2"	60
-	SSB960GBR	SSB960GBL	SSB960GWW	_	-	-	-	Galvanized	10"	16" x 20.5"	5 1/2"	60
-	IR65BR	IR65BL	IR65WW	_	IR65G	-	-	High-Impact Resin	11 ³ / ₄ " x 10 ³ / ₄ "	20 ¹/4" x 18"	5 7/8"	65
-	RT65BR	RT65BL	RT65WW	_	RT65G	-	-	High-Impact Resin	11 ½" x 10"	18 ½" x 18"	4"	60
-	IR61BR	IR61BL	IR61WW	_	IR61G	-	_	High-Impact Resin	11 ³ / ₄ " x 9 ³ / ₄ "	18 ½" x 17 ½"	4 1/4"	37
R50A	R50ABR	R50ABL	R50AWW	_	-	-	_	Aluminum	9" x 9"	17 ³ / ₈ " x 15 ³ / ₈ "	4"	50
RV50G	RV50GBR	RV50GBL	RV50GWW	_	-	-	-	Galvanized	9"	15" x 16 ½"	4"	50
RV50A	RV50ABR	RV50ABL	RV50AWW	_	-	-	-	Aluminum	9"	15" x 16 ½"	4"	50
HCD144	-	HCD144BL	HDC144WW	_	-	-	-	Galvanized	15"	25" x 25"	8"	144

Note: Minimum roof pitch is 3:12



Wind Turbines

Master Flow® Wind Turbines are the most advanced, easy-to-install turbines for roofing application. They're designed with upper and lower stainless steel bearing systems for years of trouble-free operation.



Externally & Internally BracedWind Turbines

- Quiet and Durable... Exclusive stainless dual-bearing system for durable, long-lasting, smooth, and quiet operation
- Super Leak Protection... Double-ribbed vanes, with convex top, direct even wind-driven rain away from the unit
- **Protects Your Investment...** Allows heat and moisture-laden air to escape your attic, helping to extend the life of your roof
- Versatile... Can be installed on virtually any roof, from 2:12 up to 12:12 pitch
- Peace Of Mind... Lifetime Itd. warranty backed by GAF, North America's largest roofing manufacturer*
- **Promotes Energy Efficiency...** By exhausting super-heated air from your attic!



Internally Braced



Texas Department of Insurance RV-37 & RV-38 (GC12EF, GIC12, AIC12 & AIC14 only State of Florida Approved FL5027 (GC12EF only)

ASSEMBLY (HEAD & BASE)

• Simple, Mechanically Locked, 2-Piece Design... Allows for faster, easier installation

RASE

- Pre-Punched Bottom And Crimped Collar... Fits tighter, makes installation easier
- One-Piece Design... For easy adjustability 2:12 to 12:12 pitch without removing turbine
- Extra-Large Flashing... For easier installation and superior weather protection

HEAD

- Heavy-Duty Steel Spider Braces... For strength and durability
- **Bottom Ring Included...** For easier and faster installation on base and superior weather protection

DUAL-BEARING SYSTEM

- Encased Design... Helps prevent dirt, dust, sand, and other foreign materials from damaging the bearings, resulting in a smoother spin
- Permanently Lubricated Track System... Ensures years of trouble-free spinning
- Special Design Prevents Metal-To-Metal Contact... Results in less friction for a truer, smoother spin and superior wear resistance

Replacement Turbine Heads, Bases & Weather Caps



- Replacement Head... Fits most Master Flow® and other brands of turbine bases
- Simple Adjustment... Bases adjustable for roof pitches 2:12 to 12:12
- Protects... Weather caps can be used to replace turbine heads during anticipated severe weather conditions

PRODUCT SPECIFICATIONS & USAGE RECOMMENDATIONS (Based on 1/300 Rule)

Master Flow® Wind Turbines (Externally Braced & Internally Braced)

Total Attic Square Footage		mended If Turbines† 14"	Minimum Intake Ventilation (Net Free Area In Sq. In.)
0-1000	2	2	240
1001-1500	2	2	360
1501-2000	3	2	480
2001-2500	4	3	600
2501-3000	4	3	720
3001-3500	5	4	840

[†] Based on wind velocity of 8 mph.

Master Flow® Wind Turbines Style & Color Availability

Mil	Black	Weathered Wood	Size	Construction	Bracing
AIC14	AIC14BL	AIC14WW	14"	Aluminum	Internal
GC12E	-	GC12EWW	12"	Galvanized	External
GC12EF	_	-	12"	Galvanized	External
GIC12	GIC12BL	GIC12WW	12"	Galvanized	Internal
AIC12	-	-	12"	Aluminum	Internal

Replacement Turbine Heads, Bases & Weather Caps

Part Number	Туре	Construction	Bracing
GT12E	Head	Galvanized (Fits 12" Turbines; 1 Per Case)	External
SBX12	Base	Galvanized (Fits 12" Turbines; 1 Per Case)	N/A
WC 12	Weather Cap	Galvanized (Fits 12" Turbines; 15 Per Case)	N/A

Note: Always have a balanced attic ventilation system. The amount of exhaust ventilation should NEVER exceed the amount of intake ventilation.

^{*}See Master Flow® Ventilation Products Ud. Warranty for complete coverage and restrictions. The word "Lifetime" means as long as you, the original owner or the second owner, own the property where the Master Flow® Turbines are installed.

Located at the lowest portion of the roof, the fascia, soffit or undereave intake vents are a critical part of the attic ventilation system. Failing to install intake ventilation can render the complete attic ventilation system virtually useless.



Soffit/Undereave Vents

Master Flow® offers a full line of easy-to-install options for providing critical intake ventilation at the soffit or undereave portion of the roof.



EAC Series

Our Most Popular Soffit Vents

- Versatile... All-purpose intake ventilation
- Easy Installation... Pre-punched nail holes
- Excellent Design... Surface-mount design makes installation a snap
- Corrosion Resistant... Screened aluminum construction



EmberShield®
Closeable Soffit Vents

During wildfires, embers are often carried about by the wind. Once airborne, these embers can be sucked into a home's attic by way of unprotected soffit vents, causing extreme fire risk and potential property loss.

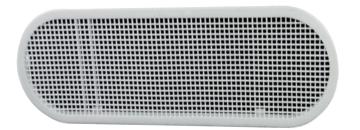
- Protects... When closed, EmberShield® Closeable Soffit Vents help prevent wildfire embers from being drawn into the attic
- Intelligent Design... Allows homeowners or first responders to close the vents during a threat of wildfire
- Easy to Use... Opens and closes with typical extension poles or broom handles
- **Versatile...** Paintable, if desired, and installs on new construction or retrofit applications



EAP Series

High-Impact Resin Soffit Vents

- Versatile... All-purpose intake ventilation
- Durable... High-impact resin construction
- Easy To Install... Oval snap-in design for easy installation with 5/16" soffit material
- Resistant... Contains UV inhibitors for long-lasting durability



LSV8 Series

Continuous Soffit Vents

- Ventilates... Provides critical intake ventilation
- Ideal... Perfect for new construction or remodeling
- Easy To Install... Eight-foot sections
- **Durable...** Aluminum louvered construction



PRODUCT SPECIFICATIONS & USAGE RECOMMENDATIONS (Based on 1/300 Rule)

EAC Series Style & Color Availability

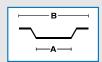
Co	olors & Model Nur	mbers	Dimensions	Construction	NFA
Mill	White	Brown			(Sq. In.)
EAC16X4	EAC16X4W	EAC16X4BR	16" x 4"	Screened Aluminum	26
EAC16X8	EAC16X8W	EAC16X8BR	16" x 8"	Screened Aluminum	65

EAP Series Style & Color Availability

	EAP412W	EAP412BR	12" x 4"	High-Impact Resin	22
	White	Brown			(Sq. In.)
Colors & Model Numbers		Dimensions	Construction	NFA	

LSV8 Series Style & Color Availability

Colors & Mo	odel Numbers	Overall	Opening	Opening	NFA	
Mill	White	Length	Width "A"	Width "B"	(Sq. In.)	
LSV8	LSV8W	8'	2"	2 3/4"	68	



LSV8 Series Measurements

EmberShield® Series Style & Color Availability

EMBER1A	16 ½" x 9" x 5/8"	Galvanized w/	56
Paintable			(Sq. In.)
Colors & Model Number	Dimensions	Construction	NFA

Note: GAF limited product warranty does not cover damage caused by fire, including wildfire embers. See Master Flow® Ventilation Products Limited Warranty for complete coverage and restrictions.

Usage Recommendations

Total Attic Square Footage	Minimum Intake Ventilation (Net Free Area In Sq. In.)	EAC 16"x4"	EAC 16"x8"	EAP 12"x4"	LSV8	Ember- Shield®
0-1000	240	10	4	11	4	5
1001-1500	360	14	6	17	5	7
1501-2000	480	19	8	22	7	9
2001-2500	600	24	10	28	9	11
2501-3000	720	28	12	33	11	13

Note: Always have a balanced attic ventilation system. The amount of exhaust ventilation should NEVER exceed the amount of intake ventilation.

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Cobra® Intake Ventilation

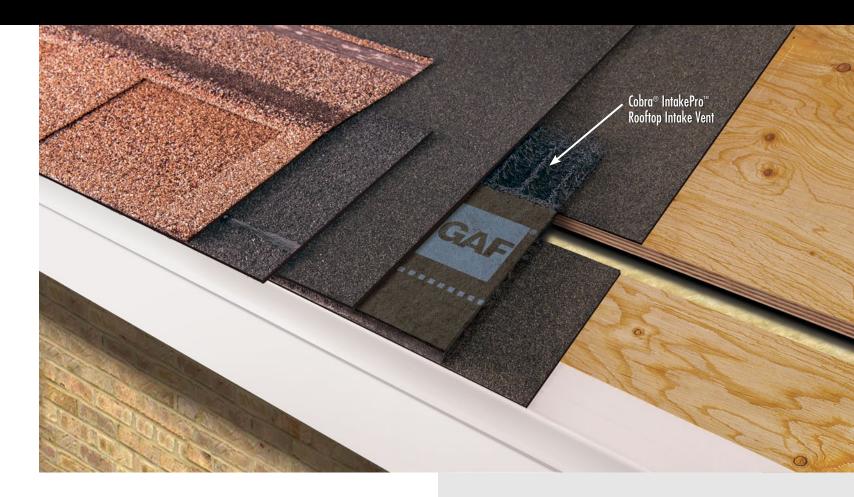
Rooftop Intake Vents

Intake ventilation allows cool, fresh air into the system, while exhaust ventilation allows moist, warm air to exhaust from the attic. Unfortunately, it's often overlooked because of difficulty or expense. Failing to install proper intake ventilation can render the attic ventilation system virtually useless.

Cobra[®] IntakePro[™]

Rooftop Intake Vent

- A Great Solution... For adding intake ventilation on homes with little or no soffits, clogged undereave vents, and even vented roof decks
- Looks Great... Tapered, shingle-over design blends in seamlessly with the look of the roof
- Keeps Roofers on the Roof... Eliminates time-consuming alterations at the soffit
- Durable... Crush-resistant design resists wind-driven rain, snow, and ice-dam infiltration*
- Easy to Install... Rolls out and fastens with included 13/4" coil nails
- **Versatile...** For roof pitches 4:12 and greater; can be installed at the eave or up-slope areas
- Peace of Mind... Eligible for Lifetime ltd. warranty when installed on Lifetime Shingle roofs**



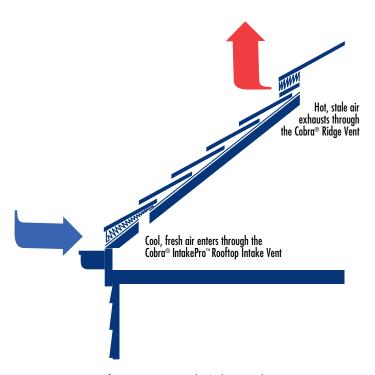






^{*}Under GAF controlled laboratory testing

^{**}See GAF Shingle & Accessory Ltd. Warranty for complete coverage and restrictions. The word "Lifetime" refers to the length of coverage provided by the GAF Shingle & Accessory Ltd. Warranty and means as long as the original individual owner(s) of a single-tamily detached residence [or the second owner(s) in certain circumstances] owns the property where the shingles and accessories are installed. For owners/structures not meeting the above criteria, Lifetime coverage is not applicable. Lifetime ltd. warranty on accessories requires the use of at least three qualifying GAF accessories and the use of Lifetime Shingles.



For optimum performance, use with Cobra® Ridge Vents.

USAGE RECOMMENDATIONS (Based on 1/300 Rule)

Cobra® IntakePro™ Rooftop Intake Vent

Total Attic Square Footage	Recommended Length Of Cobra® IntakePro™ Rooftop Intake Vent (Feet)	Minimum Exhaust Ventilation (Net Free Area In Sq. In.)
1600	43	387
1900	51	459
2200	59	531
2500	67	603
2800	75	675
3100	83	747
3400	91	819

Cobra® IntakePro™ Rooftop Intake Vent has 9 sq. inches per lineal foot (19,051 mm2/lm) of net free ventilating area.

NOTE: Always have a balanced ventilation system. In no case should the amount of exhaust ventilation exceed the amount of intake ventilation.



Chimney Caps

Safety caps for chimneys provide protection against dangerous sparks while reducing downdrafts, clogging, soot, and creosote build-up. They also protect against animal infestation. Master Flow® Safety Caps feature a single-piece hood design with no rivets or seams to corrode, and they are easy to install.

Note: Not available in Canada

Stainless Steel Safety Cap Series

- **Durable...** 100% stainless steel construction
- **Recommended...** For coastal areas and for coal & oil-burning furnaces
- Excellent Design... Single-piece, heavy-gauge hood for longer life and less chance of leaks
- Long-Lasting Construction... No rivets or seams to rust or corrode
- Quick, Easy Installation... Using only a screwdriver
- Appropriate Code Approval... Meets most fire codes¹
- Peace Of Mind... 4-year ltd. warranty²



Fixed-Size Safety Cap Series

- Universal... Our most popular safety caps fit all standardsize chimnevs
- Excellent Design... Single-piece, heavy-gauge hood for longer life and less chance of leaks
- Long-Lasting Construction... No rivets or seams to rust or corrode
- Looks Great... Epoxy powder finish provides longlasting protection
- Quick, Easy Installation... Using only a screwdriver
- Appropriate Code Approval... Meets most fire codes¹
- Peace Of Mind... 4-year ltd. warranty²



Adjustable Safety Cap

SCCA/LCCA

- **Versatile...** Unique adjustable "lock-jaw" bracket mounts cap securely in place
- Excellent Design... Single-piece, heavy-gauge hood for longer life and less chance of leaks
- Long-Lasting Construction... No rivets or seams to rust or corrode
- Looks Great... Epoxy powder finish provides longlasting protection
- Quick, Easy Installation... Using only a screwdriver
- Appropriate Code Approval... Meets most fire codes¹
- Peace Of Mind... 4-year ltd. warranty²



PRODUCT SPECIFICATIONS

Master Flow® Stainless Steel Safety Caps

Model Number	Fits Flue Tile Outer Dimensions		
CC99SS	$7\frac{1}{2}$ " x $7\frac{1}{2}$ " - $9\frac{1}{2}$ " x $9\frac{1}{2}$ "		
CC913SS	7½" x 11½" - 9½" x 13½"		
CC1313SS	11½" x 11½" - 13½" x 13½"		
SSLK	Leg Kit		

Master Flow® Fixed-Size Safety Caps

Fits Flue Tile Outer Dimensions	
$7\frac{1}{2}$ x $7\frac{1}{2}$ - $9\frac{1}{2}$ x $9\frac{1}{2}$	
7½" x 11½" - 9½" x 13½"	

$11\frac{1}{2}$ " x $11\frac{1}{2}$ " - $13\frac{1}{2}$ " x $13\frac{1}{2}$ "	
Lea Kit	
	7'/2" x 7'/2" - 9'/2" x 9'/2" 7'/2" x 11'/2" - 9'/2" x 13'/2"

Master Flow® Adjustable Safety Caps

Model Number	Fits Flue Tile Outer Dimensions			
SCCA 8" x 8" thru 13" x 13"				
	8" O.D. Round thru 12" O.D. Round			
LCCA	9" x 18" /12" x 16" /13" x 18"			
	Oval 8" x 17" thru 13" x 17" / Oval 18" x 20"			

Always consult local fire codes for requirements

² See Master Flow® Ventilation Products Ltd. Warranty for complete coverage and restrictions.

Whole House Fans

Master Flow® Whole House
Fans are smart energy savers for any climate where cooling costs are a concern. They help beat the heat by forcing hot air out of the home while bringing in cooler outside air. Whole house fans are an important part of a complete home ventilation system.

Note: Not available in Canada

Master Flow® Belt Drive Deluxe Whole House Fan

30BWHFS (Belt Drive)

- Excellent Air Exchange (versus standard models)... For maximum impact on cooling costs
- Quieter Operation... Belt drive isolates motor noise and vibration
- Efficient, Longest-Lasting Motor... 1/3 hp permanent split capacitor design for added power and longer life
- Great Appearance... Includes super-quiet automatic white ceiling shutters
- Convenient Operation... Includes two-speed wall switch (rather than pull chain)



Master Flow[®] Direct Drive Standard Whole House Fan

WHFS24M (Direct Drive)

- Efficient... 1/4 hp permanent split capacitor design
- Convenient Operation... 2-speed pull chain switch controls operation (no wiring through walls required)
- **Great Appearance...** Includes super-quiet automatic white ceiling shutters



PRODUCT SPECIFICATIONS

Note: Master Flow® Whole House Fans are designed for homes over 1,000 square fee

Master Flow® Belt Drive Deluxe Whole House Fan

Drive Type	Model Number	Size	HP	CFM	For Homes Up To (sq. ft.)	Ltd. Warranty Term/ Labor Protection Plus Plan*
Belt	30BWHFS	30"	1/3	6000	3000	10 yrs./ 5 yrs.

Note: Requires at least 1,152 in² of attic exhaust ventilation net free area.

Master Flow® Direct Drive Standard Whole House Fan

Drive Type	Model Number	Size	HP	CFM	For Homes Up To (sq. ft.)	Ltd. Warranty Term/ Labor Protection Plus Plan*
Direct	WHFS24M	24"	1/4	4500	2500	10 yrs./ 5 yrs.

Note: Requires at least 1,008 in² of attic exhaust ventilation net free area.

Accessories/Replacement Parts For Whole House Fans

WHT36 Timer & BWS2 Switch





Accessories/Replacement Parts For Whole House Fan

Model Number	Description
\$24	24" white shutter (Fits WHFS24M)
\$30	30" white shutter (Fits 30BWHFS)
BWS2	Two-speed fan control switch with cover plate (included with all belt drive models)
WHT36	12-hour timer
Motor 24DD	24" Direct drive replacement motor
Motor 30BD	30" Belt drive replacement motor

*See Master Flow® Powered Ventilation Products Ltd. Warranty for complete coverage and restrictions.

Note: Always have a balanced attic ventilation system. The amount of exhaust ventilation should NEVER exceed the amount of intake ventilation.



Foundation Vents

Master Flow® Foundation Vents help to remove damaging moisture, which can lead to mold growth and structural decay in the foundation area of the home. They can even help lower the risk of frozen pipes by providing ventilation in the crawl space area.

Power Foundation Vent

PFV^{*}

- Removes damaging moisture helps prevent structural decay and mold growth
- Fits in traditional foundation vent openings, with simple plug-and-go operation
- Up to 330 CFM/airflow to eliminate moisture during peak times





Automatic Foundation Vent

- Automatically opens at 70°F, closes at 40°F
- Helps prevent foundation decay
- Lowers risk of frozen pipes
- Replaces manual vent
- Snap-in installation



Grate Style

- Positive open/close damper action
- Lintel for foundation block construction
- Lowers risk of frozen pipes
- Helps prevent foundation decay



Block Style

Aluminum vanes; lintel

• For block, brick, or frame

• Recommended for high-level

not required

construction

ventilation

BVSII

Plastic Slider PS168BL

- Plastic vent with slider and lintel
- Manual open and close
- For brick, block, or frame construction



Grill Style

 Designed for nailing to floor joists or as a foundation block replacement



Cover FVC168

• Easy to mount over most 16" x 8" foundation vents



PRODUCT SPECIFICATIONS

Power

Model Number	Style	Color	Construction	Description	N.F.V.A. (Sq. In.)
PFV1	Power	Black	High-Density Polyethylene	16" x 8" 330CFM (1yr. ltd. warranty*)	57

Automatic

Model Number	Style	Color	Construction	Description	N.F.V.A. (Sq. In.)
FVRABL	Automatic	Black	High-Density Polyethylene	16" x 8"	57

Grate Style

Model Number	Style	Color	Construction	Description	N.F.V.A. (Sq. In.)
500	Grate	Mill	Die-Cast Aluminum	16" x 8" With Lintel &	28

Block Style

Model Number	Style	Color	Construction	Description	N.F.V.A. (Sq. In.)
BVSII	Block	Mill	Galvanized Steel/ Aluminum	15 3/8" x 8" x 2 3/4" With Moveable Louvers	73

Plastic Slider

Model Number	Style	Color	Construction	Description	N.F.V.A. (Sq. In.)
PS168BL	Slider	Black	Plastic	16" x 8"	40

Grill Style

Model Number	Style	Color	Construction	Description	N.F.V.A. (Sq. In.)
LW1	Grill	Mill	Die-Cast Aluminum	16" x 8" With Damper	50
LW1L	Grill	Mill	Die-Cast Aluminum	16" x 8" With 1 ³ / ₈ " Lintel & Damper	50

Cover

Model Number	Style	Color	Construction	Description	N.F.V.A. (Sq. In.)
FVC168	Cover	Mill	Aluminum	Fits Most Sizes	-

31

^{*}See Master Flow® Powered Ventilation Products Ltd. Warranty for complete coverage and restrictions.

Roof Caps & Other Accessories

See pages 34-35 for product specifications.

Note: Not available in Canada

Zinc Moss & Mildew Preventer

- EPA approved
- Installs easily near the roof ridge
- For composition, shake, or tile roofs
- Long-lasting protection



Roof Flashing With Tapered Stack

- Press-sealed design for maximum leak protection
- 30-gauge specified .013 .015



Roof Jack With Vent Cap

• Use for venting kitchen, bath fans & attic ventilation



All-Purpose Vent

- Large 10" base opening for gang venting
- 26-gauge specified .019



Goose Neck Vent

- 26-gauge specified .019 galvanized
- Also available in black painted 28-gauge galvanized and .017 aluminum finish with damper



Storm Collar

- Adjustable for various pitches
- 28-gauge specified .015



Vent Cap

- To cap pipes for rain, snow, and debris protection
- 30-gauge specified .013-.015



Versa Cap

- Non-clogging, positive draft design
- For chimney, flue, or hot stack installation
- Clamp fitting that's adjustable for all standard sizes
- UL listed



Roof Accessories - Product Specifications



Zinc Moss & Mildew Preventer



Model Number	Description
NMM50	Tray Pack (6 coils) — 2.67" x 50' coil

Roof Flashings With Tapered Stacks



Model	Cita Dina Dinmatan	Base	Dimensions	
Number	Fits Pipe Diameter	Size	"A"	"B"
RFTS3	3"	12" x 12"	6.125"	5.125"
RFTS4	4"	13" x 13"	6.375"	6.125"
RFTS5	5"	15" x 15"	6.25"	7.125"
RFTS6	6"	15" x 15"	6.75"	8.125"
RFTS7	7"	15" x 15"	6.5"	8.125"

Roof Jacks With Vent Caps



M. I I M. I	From Dr. 1	D C	Dimensions		
Model Number	Fits Pipe Diameter	Base Size	"A"	"B"	"C"
28 Gauge – Specifie	d .015				
RJVC3	3"	12" x 12"	8.5"	5.125"	10.25"
RJVC4	4"	13" x 13"	8.125"	6.125"	10.25"
RJVC5	5"	15" x 15"	8.125"	7.125"	10.5"
RJVC6	6"	15" x 15"	8.25"	8.125"	10.75"
RJVC7	7"	15" x 15"	6.625"	8.125"	9"
RJVC8	8"	18" x 18"	9.75"	10.125"	12.5"
26 Gauge - Specified	.019				
26RJVC4	4"	13" x 13"	8.125"	6.125"	10.125"
26RJVC5	5"	15" x 15"	8.825"	7.125"	10.5"
26RJVC6	6"	15" x 15"	8.25"	8.125"	10.75"
26 Gauge - Roof Jac	ks with Vent Caps - No	o Pitch			
F26RJVC4	4"	13" x 13"	7.625"	6.125"	10.125"
F26RJVC5	5"	15" x 15"	8.125"	7.125"	9.875"
F26RJVC6	6"	15" x 15"	8.25"	8.125"	10.75"

All-Purpose Vents



Model Number	Base Size	Dimensions			
Model Nulliber	Duse Size	"A"	"B"	"C"	
26APV10	16" x 16"	10.375"	9.875"	12.00"	
F26APV10	16" x 16"	10.375"	9.875"	11.75"	

Goose Neck Vents



Model	Fig. Dr. Dr	n c	Dimensions	
Number	Fits Pipe Diameter	Base Size	"B"	"C"
GNV4	4"	11 ⁵ / ₈ " x 9 ¹/ ₈ "	41/8" x 61/2"	63/8"
GNV4A	4"	9" x 10 ⁷ / ₈ "	N/A	43/8"
GNV4BL	4"	9" x 10 ⁷ / ₈ "	N/A	43/8"
GNV5BL	5"	9" x 10 ⁷ / ₈ "	N/A	43/8"
GNV6	6"	113/4" x 111/4"	6 ¹ / ₈ " x 6 ⁵ / ₈ "	61/4"
GNV6BL	6"	13 ¹ / ₂ " x 14 ³ / ₄ "	N/A	63/4"
GNV7BL	7"	13 ¹ / ₂ " x 14 ³ / ₄ "	N/A	63/4"
GNV10	10"	16" x 16"	10" x 10"	83/4"
GNV10A	10"	16 ¹ / ₈ " x 19 ¹ / ₄ "	N/A	71/2"
GNV10BL	10"	16 ¹ / ₈ " x 19 ¹ / ₄ "	N/A	71/2"
GNV=Galvanized	GNVBL=Black painted galvanized	GNVA=Aluminum with damper		

Vent Caps



Model Number	Fits Pipe Diameter
VC3	3"
VC4	4"
VC5	5"
VC6	6"
VC7	7"
VC8	8"

Storm Collars



Model Number	Fits Pipe Diameter	
SMC3	3"	
SMC4	4 "	
SMC5	5"	
SMC6	6"	

Versa Caps



Aluminum Model Number	For Pipe With an Outside Diameter Of:	For Double Wall Metal Pipe	For Single Wall Metal Pipe	Overall Height	Overall Diameter
3050	2 7/8"-4 7/8"	3" & 4"	3" & 4"	4 1/2"	6 5/8"
5070	4 7/8"-6 7/8"	5" & 6"	5" & 6"	4 ³/ ₄ "	9 1/2"
7090	6 7/8"-8 7/8"	7" & 8"	7" & 8"	5 7/8"	11 5/8"
9011	8 7/8"-10 7/8"	9" & 10"	9" & 10"	6 1/2"	12 ³/ ₄ "
1200	11 7/8"-14"	12"	12" & 14"	8 "/16"	17 9/16"



Quality You Can Trust...From North America's Largest Roofing Manufacturer!™

gaf.com

More Than Just Coverage On Your Shingles!

Get Automatic Lifetime Protection On Your Entire GAF Roofing System!*

When you install any GAF Lifetime Shingle and at least 3 qualifying GAF accessories, you'll automatically get:

- A Lifetime ltd. warranty on your shingles and all qualifying GAF accessories!*
- Non-prorated coverage for the first 10 years!*



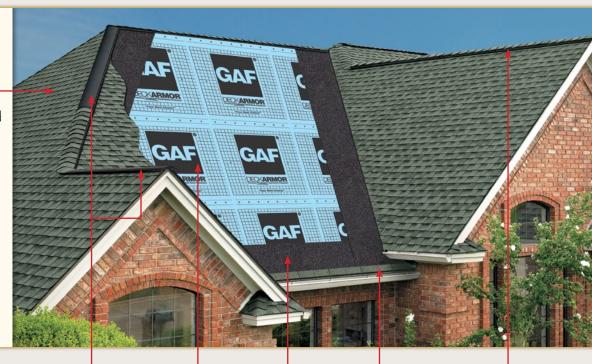
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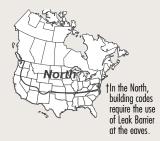
SHINGLES

GAF offers you many great
Lifetime Shingle choices, including
Timberline® Shingles with Advanced
Protection® Shingle Technology.
They're the #1-selling shingles in
North America!

Advanced Protection® Shingle Technology provides excellent protection for your home while reducing the use of precious natural resources. That's better for your home—and better for the environment!

To learn more about why Advanced Protection® Shingles are your best choice, visit gaf.com/aps.







Cobra® Attic Ventilation

Helps remove excess heat and moisture from your attic to promote energy efficiency in your home and help extend the life of your roof.



Roof Deck Protection

Provides an exceptionally strong layer of protection against wind-driven rain; some even allow moisture to escape from your attic. Also, lies flatter for a better-looking roof.



Leak Barrier

Provides exceptional protection against leaks caused by roof settling and extreme weather. Ideal upgrade at all vulnerable areas (including at the eaves in the North†).



Starter Strip Shingles

Saves time, eliminates waste, and reduces the risk of blow-off...and may even help qualify for upgraded wind warranty coverage (see GAF Shingle & Accessory Itd. Warranty* for details).



Ridge Cap Shingles

Enhances the beauty of your home while guarding against leaks at the hips and ridges.



"See GAF Shingle & Accessory Ltd. Warranty for complete coverage and restrictions. The word "Lifetime" reters to the length of coverage provided by the GAF Shingle & Accessory Ltd. Warranty and means as long as the original individual owner(s) of a single-tamily detached residence for the second owner(s) in certain circumstances] owns the property where the shingles and accessories are installed. For owners/structures not meeting the above criteria, Lifetime coverage is not applicable. Lifetime ltd. warranty on accessories requires the use of at least three qualifying GAF accessories and the use of Lifetime Shingles.







The GAF Lifetime Roofing System has earned the prestigious Good Housekeeping Seal, which means that Good Housekeeping stands behind the products in this system. (Refer to Good Housekeeping Magazine for its consumer protection policy. Applicable in U.S. only.)

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