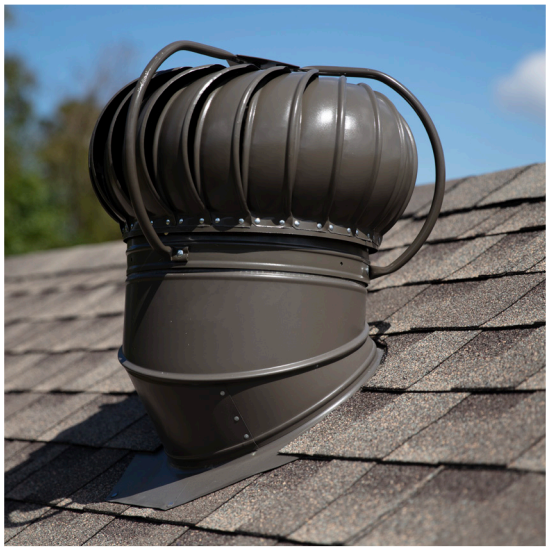
Master Flow® Wind Turbines

Remove excess heat and moisture from your attic and protect your roof system from premature deterioration



- Help improve energy efficiency by reducing attic heat and your summer air-conditioning load
- Limit the growth of harmful mold and mildew
- Minimize peeling of paint inside and out

GAF Master Flow® Wind Turbines

We protect what matters most™

GAF

Master Flow® Wind Turbines

Benefits:

- **Uses the wind to help pull excessive attic heat and moisture** from the attic. Acts as a static vent when no wind is present.
- Exclusive **stainless dual-bearing system** for durable, long-lasting, and smooth operation
- **Simple, mechanically locked two-piece design** allows for easy installation and pitch adjustment
- **Weather-resistant design** with double-ribbed vanes and convex top passes the 110 mph wind-driven rain test per TAS 100(A)

Balanced Ventilation:

Balanced attic ventilation means there's an equal amount of air entering it as there is exiting it. The amount of exhaust ventilation at or near the ridge must **never** exceed the amount of intake ventilation at or near the soffits or eaves. A minimum of 1 sq. ft. of net free ventilation for every 300 sq. ft. of attic floor space is recommended, but always consult local building codes to ensure compliance with local ventilation requirements. For more information, visit **gaf.com/ventcalculator** and see the chart below.

How Much Do I Need?

Calculate the total square footage of your attic floor space and then review the chart below for the recommended minimum number of 12" or 14" Master Flow® Wind Turbines:

Total Attic Size (Sq. Ft.)	Recommended Number of Wind Turbines		Minimum Intake Ventilation Needed Net Free Area in Sq. In. With:	
	12" Models	14" Models	12" Models	14" Models
Up to 1,000	2	1	471	336
1,001 – 1,500	3	2	706	672
1,501 – 2,000	3	2	706	672
2,001 – 2,500	4	3	941	1,008
2,501 – 3,000	5	3	1,176	1,008

Note: Chart above based on wind velocity of 8 mph (12.9 km/h). Always have a balanced attic ventilation system. In no case should the amount of exhaust ventilation at or near the ridge exceed the amount of intake ventilation at or near the soffit.

Master Flow® Wind Turbine Models & Color Availability

Models	Mill	Black	Weathered Wood	Brown
14" (356 mm) Aluminum Internally Braced - **AIC14**	Yes	Yes	Yes	—
12" (305 mm) Aluminum Internally Braced - **AIC12**	Yes	—	—	—
12" (305 mm) Galvanized Internally Braced - **GIC12**	Yes	Yes	Yes	Yes
12" (305 mm) Galvanized Externally Braced - **GC12E**	Yes	Yes	Yes	Yes
12" (305 mm) Galvanized Externally Braced (Heavy) - **GC12EF**	Yes	—	—	—

Replacement wind turbine heads, adjustable bases, and weather caps are also available. Please contact GAF Master Flow® Customer Care at 800-755-9392 for more information.

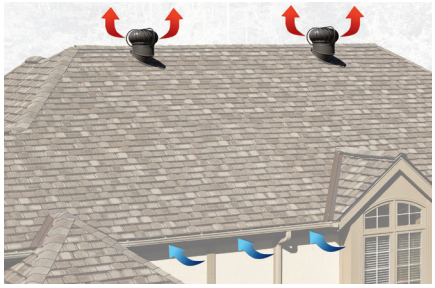
Product Details:

Nominal Specifications:

- Adjustable for roof pitches: 2:12 – 12:12
- Opening Sizes: 12" & 14" (305 mm & 356 mm)
- Construction: Aluminum or Galvanized available
- Available Bracing: Internal or External available

Code Approvals:

- Miami-Dade County Product Control approved — GC12EF model only
- State of Florida Approved — GC12EF model only
- Texas Department of Insurance Product Evaluation RV-37 & RV38 — excludes GC12E model



1. Warm, moist air escapes attic through the **Master Flow® Wind Turbines**
2. Fresh air enters attic through intake vent at or near the soffit

† See *Master Flow® Ventilation Products Limited 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® Wind Turbines are installed.

‡ Although Master Flow® Attic Exhaust Vents count as an eligible accessory product in the GAF Attic Ventilation category, they are covered by either the *Master Flow® Powered Ventilation Products Limited Warranty* or *Master Flow® Ventilation Products Limited Warranty*, depending on the product.

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