

GreenRoo™

Turbine Natural Ventilator



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 **Moffitt**
NATURAL VENTILATION SOLUTIONS

GreenRoo™ Turbine Ventilator

GreenRoo™ Product Details

PRODUCT DESCRIPTION

The GreenRoo™ uses light gauge, marine grade aluminum that is generations ahead of the old heavy gauge "onion" units. The light gauge material spins more easily in the wind and offers a huge capacity enhancement over the "onion". In addition, the unit's light weight places virtually no wind load on a building's roof eliminating the need for costly support steel. Moffitt will be happy to provide independent tests and models for performance including;

- Water penetration tested per AS4740:2000, Class A at 112 miles per hour
- Air capacity tested per AS4740:2000 Appendix D & E
- Wind load tested per AS4740:2000

Watch the video at moffittcorp.com/greenroo to see the GreenRoo™ in action.

STANDARD FEATURES

- Corrosion Resistant Lightweight Aluminum
- Anodized steel Bearing Support Spider
- Stainless steel shaft.
- Vertical turbine blades.
- Available 12" & 36" throat sizes
- Tandaco Pre-Packaged Ball Bearing System
- Main Bearings: Double row ball bearings
 - Spider Bearings: Single row ball bearings
 - Integral Base Flashing
- Flashing: Aluminum, included
- Recommended unit spacing is 15 ft.

OPTIONAL FEATURES

- Damper
 - Motorized
 - Manual
- Coating
 - Epoxy
 - Urethane
- Screen
 - Bird Screen
 - Insect Screen
- Curb caps to fit new or existing roof curbs
- Extended Throat for pitches above 22°
- Adaptor kit for standing seam, floating roof system

PRODUCT BENEFITS

- No Operating Costs
- No Wiring Costs
- No Starter Costs
- No Maintenance Costs
- No Noise
- Weighs Just 60 lbs.

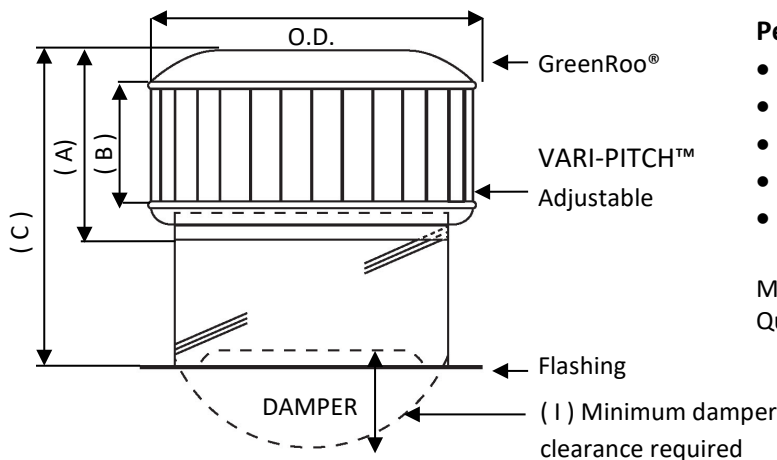
INDUSTRY APPLICATIONS

- | | | |
|----------------------------|-----------------------|--------------------------|
| • Chemicals | • Gypsum Facilities | • Steel & Metal Industry |
| • Distribution & Warehouse | • Plastics | • Storage |
| • General Manufacturing | • Power Generation | • Universities & Schools |
| • Glass Plants | • Pulp & Paper Plants | • +Other |

All Specifications are subject to change without notice unless approved in submittal by Moffitt

GreenRoo™ Turbine Ventilator

GreenRoo™ Submittal Data - Self-Flashing



Performance

- Stack Height: _____ Ft.
- Temp. Diff.: _____ Deg. F
- Avg. Wind Speed: _____ MPH
- CFM/Unit: _____ CFM
- Roof Slope: _____ In 12"

Model #H ____" Diameter Throat
Quantity Required _____

MODEL	THROAT	DIMENSIONS (INCHES)					FLASHING	WEIGHT
		A	B	C	O.D.	I		
H-12	12 DIA.	15	7	20	19	6	23 5/8 × 19 5/8	15 lbs.
H-36	36 DIA.	25	16	37	44	15	47 1/2 SQ	60 lbs.

STANDARD FEATURES

- Aluminum construction
- Stainless steel shaft
- Vertical turbine blades
- Rotation Ball Bearings:
 - Main Bearings: Double row bearings
 - Spider Bearings: Single row bearings
- VARI-PITCH™ adjustable throat up to 22°
- Aluminum flashing, included
- Recommended unit spacing is 15 ft.
- Aluminum construction
- Stainless steel shaft
- Vertical turbine blades

OPTIONAL FEATURES

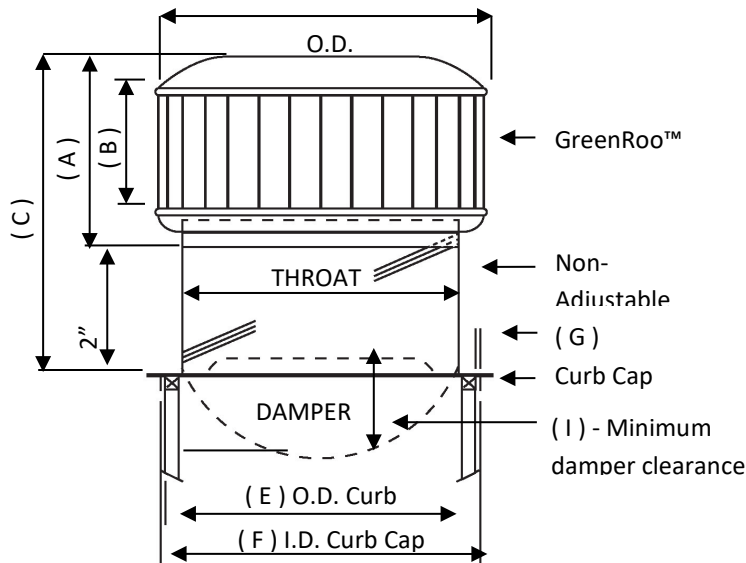
- Damper
 - Motorized
 - Manual
- Screen - Located in bottom of turbine.
 - Bird Screen
 - Insect Screen
- Curb Cap Base (Curb SQ. O.D. dimension required.)
 - Epoxy
 - Urethane
- Powder Coated Paint (standard white color)
- Damper
 - Motorized

NOTES

- The GreenRoo throat overlaps the VARI-PITCH™. The height listed above is with the maximum overlap (lowest overall height). VARI-PITCH™ to suit a roof slope also reduces its height.
- The VARI-PITCH™ sits inside the throat of the GreenRoo™ ventilator. The total height of the VARI-PITCH™ is reduced by the overlap of the throat, which can vary from 2" - 4 3/8".
- Bird screens are not required for normal applications as rotating head prevents birds from entering.
- Single disc style dampers (optional feature) require a 24" height non-adjustable throat.

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GreenRoo™ Submittal Data – with Curb Cap



Model #H _____ " Dia. Throat
Quantity Required _____

Performance

- Stack Height: _____ Ft.
- Temp. Diff.: _____ Deg. F
- Avg. Wind Speed: _____ MPH
- CFM/Unit: _____ CFM
- Roof Slope: _____ In 12"

MODEL	THROAT	DIMENSIONS (INCHES)								WEIGHT
		A	B	C	O.D.	E	F	I	G	
H-12	12 DIA.	15	7	20	19	15	15 1/2	6	23 5/8 × 19 5/8	15 lbs.
H-36	36 DIA.	25	16	37	44	39	39 1/2	15	47 1/2 SQ	60 lbs.

STANDARD FEATURES

- Aluminum construction
- Anodized Steel Bearing Support Spider
- Stainless steel shaft
- Vertical turbine blades
- Rotation Ball Bearings:
 - Main Bearings: Double row bearings
 - Spider Bearings: Single row bearings
- VARI-PITCH™ adjustable throat up to 22°
- Flashing: Aluminum, included
- Recommended unit spacing is 15 ft.

OPTIONAL FEATURES

- Damper
 - Motorized
 - Manual
- Screen – Located in bottom of turbine
 - Bird Screen
 - Insect Screen
- Powder Coated Paint (standard white color)
 - Epoxy
 - Urethane
- Curb Cap Base – Curb SQ. O.D. dimension required.

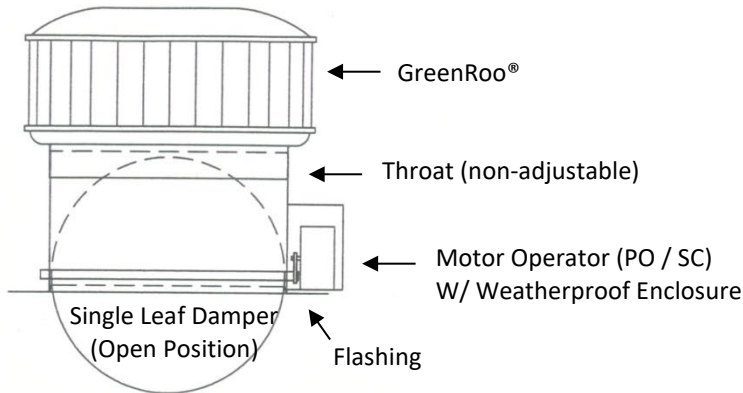
NOTES

- Non-Adjustable throat with curb cap design

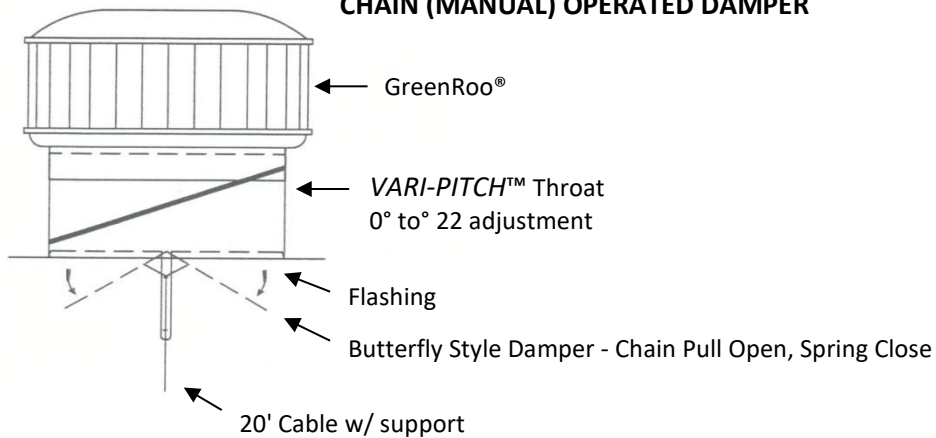
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GreenRoo™ Damper

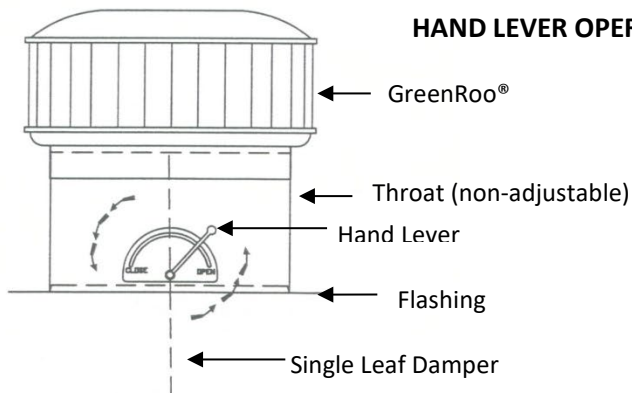
MOTOR OPERATED DAMPER



CHAIN (MANUAL) OPERATED DAMPER

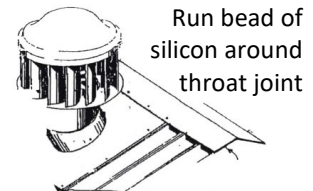
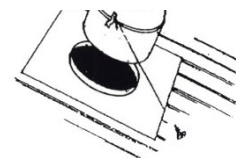
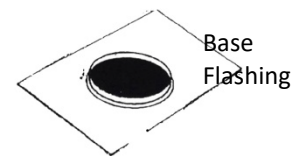
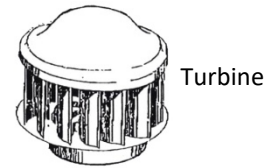


HAND LEVER OPERATED DAMPER



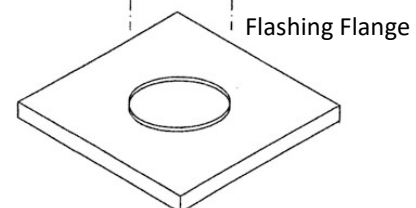
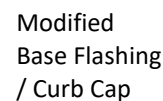
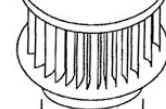
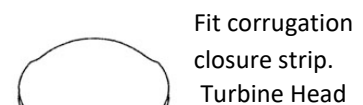
GreenRoo™ Assembly and Installation Instructions

1. Select the position on the roof. Lay the base flashing in place and mark the position of the opening. *Always consider the method of weatherproofing for the opening. Installing close to the ridge or apex is the easiest way to weatherproof.*
2. Cut the roof opening hole. If the roof cladding is metal "turn up" the corrugations or pans.
3. Sit the throat section on the roof and rotate the top half until the throat is horizontal. *It is best to use a level for this purpose.*
4. When leveled, secure the two halves of the throat section together to prevent further rotation. *This is done by drilling through the existing lugs and inserting a screw or rivet.*
5. Place the throat section on the base and recheck for level. Fix the throat section to the base flange with at least four fasteners. Slide the base flashing into its final position.
6. Apply an unbroken bead of silicone or other sealant to all lap areas and fasten the base flashing securely to the roof cladding.
7. Fit corrugation closure strips to all open corrugations on the low side of the base flashing.
8. Fit the turbine to the base. *Check that it is level and adjust by tilting the turbine as necessary.*
9. Fasten the turbine to the top of the throat section with at least four fasteners. *Coat all exposed fasteners with silicone and apply an unbroken bead of silicone around the slip joint of the throat section.*



Instructions with Base Flashing and Curb Cap

1. Apply Sealing tape to Curb (if required).
2. Place base flashing / curb cap on to curb
3. Attach to curb as needed
4. Place Throat Over Flashing Flange and Secure with at least (4) Fasteners- *Space Equally*
5. Place Turbine Head Over Throat and Secure with at least (4) Fasteners- *Space Equally*
6. Apply an Unbroken Bead of Silicone or Other Sealant to all Lap Areas & Coat all exposed Fasteners with Silicone or Sealant
7. Tape, Silicone & Hardware by Others



GreenRoo™ Turbine Ventilator

GreenRoo™ Pictures

