Technical Data Sheet

Product

Model: AB-3523A

Description: Self-flashing style solar powered attic fan constructed from corrosion resistant zincalume alloy steel with heavy-duty powder coated finish, featuring a 14 inch diameter fan blade, unit mounted 35W solar panel with adjustable integrated bracket, stainless steel hardware throughout, thermal switch and fire safety switch included.
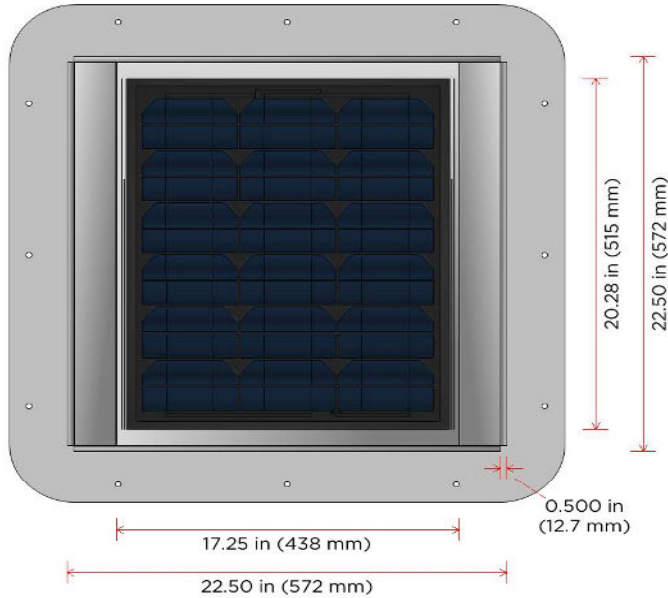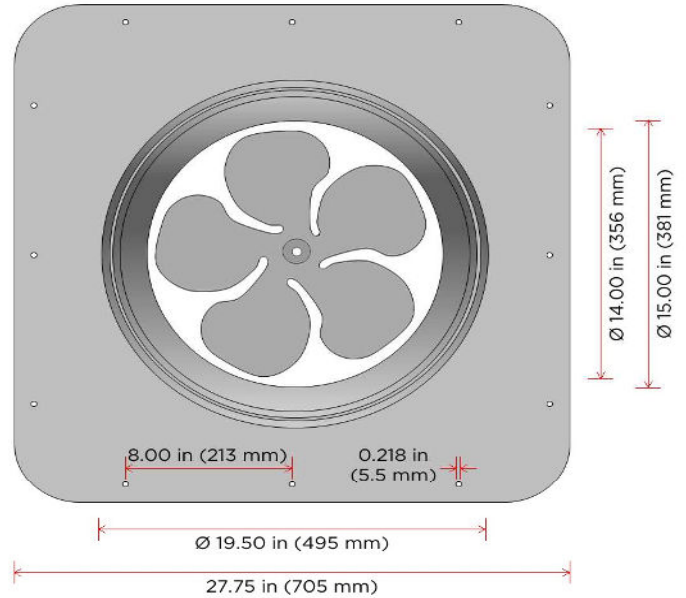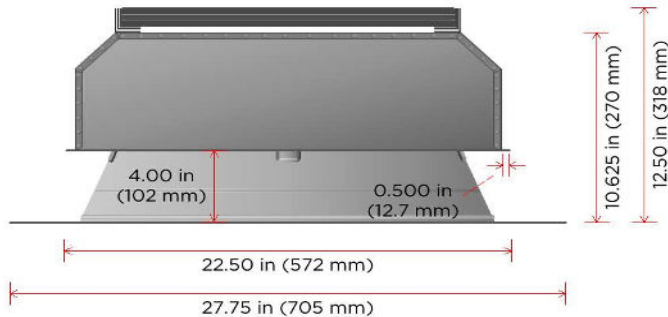
Revision: 0

Date: 3/1/2021

DCN: TDS-3523A

TOP VIEW

20.28 in (515 mm)
22.50 in (572 mm)
0.500 in (12.7 mm)
17.25 in (438 mm)
22.50 in (572 mm)

BOTTOM VIEW

Ø 14.00 in (356 mm)
Ø 15.00 in (381 mm)
8.00 in (213 mm)
0.218 in (5.5 mm)
Ø 19.50 in (495 mm)
27.75 in (705 mm)

FRONT VIEW

10.625 in (270 mm)
12.50 in (318 mm)
4.00 in (102 mm)
0.500 in (12.7 mm)
22.50 in (572 mm)
27.75 in (705 mm)

SIDE VIEW

10.625 in (270 mm)
12.50 in (318 mm)
4.00 in (102 mm)
0.500 in (12.7 mm)
20.28 in (515 mm)
27.75 in (705 mm)
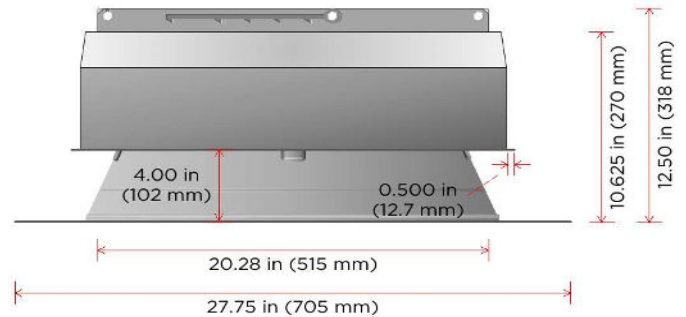
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Materials

Hood & Base:	22 GA (0.027 in; 0.686 mm) Zincalume/Galvalume AZ50 (ASTM A792)
Support Brackets:	16 GA (0.058 in; 1.473 mm) Galvanized Steel G90 (ASTM A653)
Motor Brackets:	12 GA (0.105 in; 2.667 mm) 304 Stainless Steel (ASTM A666)
Wildlife Screen:	23 GA (0.028 in; 0.710 mm) 304 Stainless Steel; 0.25 in x 0.25 in welded wire mesh
Hardware & Fasteners:	1/4" 18-8 Stainless Steel
Fan Blade:	16 GA (0.050 in; 1.270 mm) Aluminum AL5052 (ASTM B209); 14 in (356 mm) diameter, 5-wing precision balanced blade
PV Panel:	AL5052 aluminum frame; impact-resistant tempered glass

Finish

Coating Type:	Powder coated baked-on finish using Tiger/Drylac Series 38 Super Durable TGIC Polyester coating
Coating Thickness:	2.5-3.5 mils average (ISO 2360)
Adhesion:	5B minimum (ASTM D3359 method B)
Exposure Performance:	Passes natural weathering test (ASTM D2244 & ASTM D523; Florida 5 years exposure) with gloss retention >80% and ≤Δε 5.0 color change
Corrosion Resistance:	Passes 2,000 hour acid salt spray resistance testing (ASTM G85) with 1/32 in (1 mm) maximum undercutting
Certifications:	AAMA 2604 compliant
Stock Colors:	jet black, bronze brown, weathered gray, polar white, terra cotta, hickory, shakewood
Custom Colors:	brick red, hawaiian blue, anodized silver, classic green, turquoise, sandstone

Electrical

Motor:	PowerMaxx™ brushed variable speed DC motor with sealed bearings; fully enclosed and designed to be intrinsically safe with overload protection
PV Panel:	High efficiency 35 watt panel; monocrystalline solar cells
Internal Wiring:	16/18 AWG wiring throughout unit
Remote Cable:	N/A
Termination:	UV/weather resistant quick disconnect plugs
Fan Control:	Includes thermal switch (activates 75°F ± 7°F, deactivates 55°F ± 9°F - UL 873 compliant) and fire safety switch (deactivates at 228°F +0°F/-9°F - UL 60691 compliant); Breeze Mate® solar ventilation control system optional

Performance

Max Airflow Rating:	1775 CFM @ 0.0 inH2O active under peak sun exposure; 1.31 sqft NFA passive
Noise Level:	< 1 sones (< 30 dB)
Wind Rating:	+115 PSF/-115 PSF (ASTM E330-02); +170 MPH Wind Speed Equivalence*

* Wind speed equivalence based on 30 foot mean roof height in Exposure B; wind zones 1-3; all roof pitches apply.

Certifications:	Florida Product Approval (FL13339.1 R9); Texas Department of Insurance windstorm approval (RV-59)
Warranty:	Residential limited Lifetime Warranty; commercial 25-year limited warranty

Weight Load

Fan Unit:	30 LBS
Remote PV Panel:	N/A

Attic Breeze®
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