

BREVIS 3-Blade HVLS FAN

PRODUCT SPECIFICATIONS

HIGH VOLUME LOW SPEED FAN



Design Highlights

- Clear anodized blades
- Optimized 3-blade profile for low speed rotary airfoil application and near ground effect
- NACA airfoil profile reduces drag while producing more airflow
- Fan safety system incorporates steel hub, aircraft-grade safety cable and guy wires
- NEMA 4X variable frequency drive
- Disconnect included
- Forward/reverse, start and stop from the VFD display



Motor Size

- ☐ 1.0 HP (all blade size)

Fan Diameter

- ☐ 12 FT (3.7 M)
☐ 16 FT (4.9 M)
☐ 20 FT (6.1 M)

Fan Voltage

- ☐ 110 V single phase
☐ 208-240 V single phase
☐ 208-240 V 3 phase
☐ 380-480 V 3 phase
☐ 575 V 3 phase

Available Options

- ☐ Mounting extension _____ FT / M
☐ Extra wide beam plate _____ IN / MM
☐ Laminated wood beam brackets
☐ Truss span mounting kit (consult factory)
☐ Z-Purlin mounting kit (consult factory)

Project Information

Job Name _____
Address _____
General Contractor _____
Distributor _____
Model _____ Quantity _____

Certified For Construction

By _____
Company _____
Address _____
Date _____

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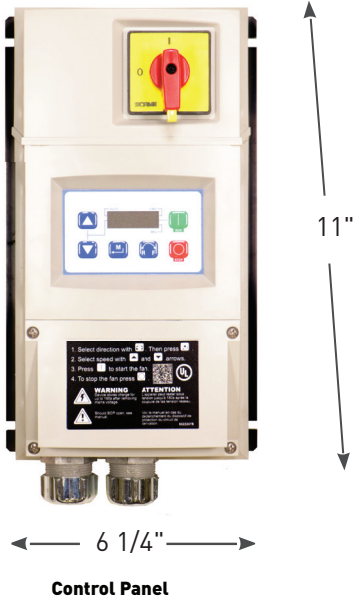
HIGH VOLUME LOW SPEED FAN

Construction	
Frame	Black Powder Coat / Welded Steel Fabrication
Hub Assembly	6061-T6 Aluminum
Blade Struts (Invertible)	Clear Zinc / High Tensile Steel
Blades	Anodized / 6063-T6 Aluminum
Safety Components	
Steel Hub Plate	
Safety Cable	Galvanized 1/4" x 7 x 19 Steel Aircraft Grade Cable
Guy Wires	Galvanized 1/8" x 7 x 19 Steel Aircraft Grade Cable
Rotor Retaining Ring	Zinc Plated / 3/16 A569 Steel
Mounting Hardware	
Standard Mount	Universal I-Beam Clamp w/ Swivel Joint & 7" Drop
Laminated Wood Beam Clamp (Optional)	Brackets
Extra Wide / Thick I-Beam Mount (Optional)	Consult Factory
Additional Drop Extensions (Optional)	Up to 10 FT in 1 FT Increments
Source Voltage	
Standard Power	110V 1Ø or 208-230V 1Ø or 3Ø, 380-480V, 575V 3Ø
Gearbox and Motor	
Enclosure / Insulation Class / Efficiency Class	IP55 / F / IE3
Type	2-Stage Helical
Service Interval	Lubed For Life
VFD Assembly	
Enclosure	NEMA 4X
LENZE Wash Down Druty Inverter	All in One VFD Control
50 Hz Operation (Optional)	60 Hz Operation
Disconnect	Panel Mount, UL/CE
UL Certified / cUL / EAC / C-Tick	-10 to 55C @ 6kHz / 14

Warranty
Lifetime Warranty on Blades, Hub & Frame
3-Year Limited (Mechanical & Electrical)
1-Year Labor

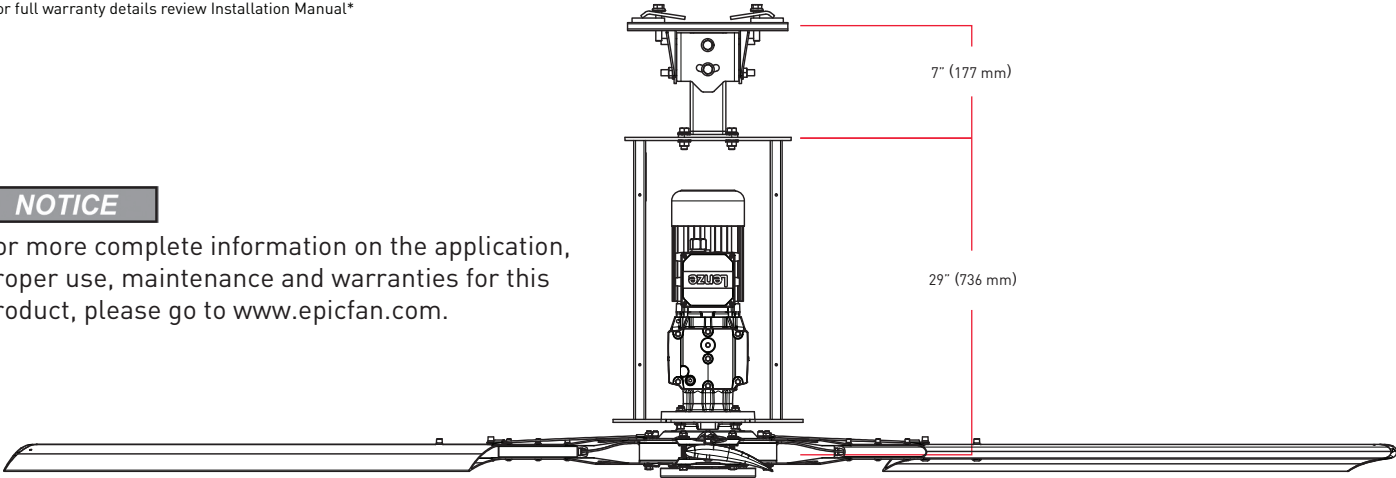
For full warranty details review Installation Manual

Fan Size	Hanging Weight	RPM
12 FT 1.0 HP	181 lbs. (86 kg)	125
16FT 1.0 HP	198 lbs. (94 kg)	92
20 FT 1.0 HP	214 lbs. (105 kg)	72



NOTICE

For more complete information on the application, proper use, maintenance and warranties for this product, please go to www.epicfan.com.



Enter Fan Diameter



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Fan Size / Impeller Diameter	Calculated % of Max CFM	CFM *Tested to ANSI/AMCA Standard 230-15 HVLS*	Fan RPM	Input Power	Voltage / Phase / Frequency	Input Power W	Direction of Operation (Forward / Reverse)	Stand By Power	Integrated Efficiency (CFM / Watt) Overall Rating = 149.12
12'	100%	56,081	120	480 V / 3 PHASE	480 / 3 / 60	452	FORWARD	6.52 W	124.07
12'	80%	44,632	96	480 V / 3 PHASE	480 / 3 / 60	298	FORWARD	6.52 W	149.78
12'	60%	33,759	72	480 V / 3 PHASE	480 / 3 / 60	197	FORWARD	6.52 W	171.72
12'	40%	22,367	48	480 V / 3 PHASE	480 / 3 / 60	111	FORWARD	6.52 W	202.2
12'	20%	11,373	25	480 V / 3 PHASE	480 / 3 / 60	64	FORWARD	6.52 W	176.9
Fan Size / Impeller Diameter	Calculated % of Max CFM	CFM *Tested to ANSI/AMCA Standard 230-15 HVLS*	Fan RPM	Input Power	Voltage / Phase / Frequency	Input Power W	Direction of Operation (Forward / Reverse)	Stand By Power	Integrated Efficiency (CFM / Watt) Overall Rating = 191.82
16'	100%	110,269	102	480 V / 3 PHASE	480 / 3 / 60	770	FORWARD	6.5 W	143.28
16'	80%	88,930	82	480 V / 3 PHASE	480 / 3 / 60	479	FORWARD	6.5 W	185.68
16'	60%	66,203	62	480 V / 3 PHASE	480 / 3 / 60	257	FORWARD	6.5 W	257.18
16'	40%	43,377	41	480 V / 3 PHASE	480 / 3 / 60	130	FORWARD	6.5 W	333.9
16'	20%	19,404	21	480 V / 3 PHASE	480 / 3 / 60	69	FORWARD	6.5 W	283.29
Fan Size / Impeller Diameter	Calculated % of Max CFM	CFM *Tested to ANSI/AMCA Standard 230-15 HVLS*	Fan RPM	Input Power	Voltage / Phase / Frequency	Input Power W	Direction of Operation (Forward / Reverse)	Stand By Power	Integrated Efficiency (CFM / Watt) Overall Rating = 337.33
20'	100%	145,645	70	480 V / 3 PHASE	480 / 3 / 60	655	FORWARD	7.1 W	211.62
20'	80%	118,061	56	480 V / 3 PHASE	480 / 3 / 60	388	FORWARD	7.1 W	289.11
20'	59%	75,696	41	480 V / 3 PHASE	480 / 3 / 60	174	FORWARD	7.1 W	414.81
20'	40%	56,112	28	480 V / 3 PHASE	480 / 3 / 60	131	FORWARD	7.1 W	406.15
20'	19%	31,258	13	480 V / 3 PHASE	480 / 3 / 60	82	FORWARD	7.1 W	364.95



4Front Engineered Solutions certifies that the 3-Blade model 12'-16' shown herein is licensed to bear the AMCA seal. The ratings shown are based on the tests and procedures performed in accordance with AMCA Publication 211 and comply with the requirements of the AMCA Certified Ratings Program.

AMCA Certified ratings seal applies at free delivery only. Performance ratings do not include the effects of appurtenances (accessories).



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