

# SUMMIT HVLS FAN

## PRODUCT SPECIFICATIONS

HIGH VOLUME LOW SPEED FAN



### Design Highlights

- DC Motor / Brushless / No Gearbox / IP 65 Rating
- Performance in high ambient conditions 0-122°F / -17.78-50°C
- Large “Air Current Depth” - horizontal floor jet of 3-9 ft (1-3 m)
- Standard clear corrosion-resistant anodized blades
- Fan safety system incorporates steel hub, aircraft-grade safety cable and guy wires
- Patent pending aluminum hub and blade support system
- Remote mounted high efficiency Variable Frequency Drive
- Acoustic sound level 45 dBA\*
- Touch screen remote with forward/off/reverse features, self diagnostics and 4 digit pass code protection
- Aerodynamic blade winglets with patent-pending design
- Optimized 5-Blade profile for low speed rotary airfoils
- Patented facility fire system compatibility (can be daisy chained)
- ULC 507 approved (Entire Fan)

\*Results of sound measurement in the field may vary due to variations in surface types, environment and conditions.

### Motor Size

- ☐ 85 Nm 1 HP/ 8 FT (2.4 M) - 14 FT (4.9 M)
- ☐ 188 Nm 2 HP/ 16 FT (5.5 M) - 24 FT (7.3 M)

### Fan Diameter

- ☐ 8 FT (2.4 M)
- ☐ 10 FT (3.0 M)
- ☐ 12 FT (3.7 M)
- ☐ 14 FT (4.3 M)
- ☐ 16 FT (4.9 M)
- ☐ 18 FT (5.5 M)
- ☐ 20 FT (6.1 M)
- ☐ 24 FT (7.3 M)

### Available Options

- ☐ Mounting Extension \_\_\_\_\_ FT / M
- ☐ Extra Wide Beam Plate \_\_\_\_\_ FT / M
- ☐ Powder Coated Blades \_\_\_\_\_
- ☐ Custom Powder Coated Frame & Mount
- ☐ Fire Control Panel (Standard & Networked Fans)
- ☐ Multiple Fan Remote (2-6)
- ☐ BAS Integration
- ☐ iFan 4.3 (12 Fans Maximum)
- ☐ iFan 7.0 (24 Fans Maximum)

### Project Information

Job Name \_\_\_\_\_  
 Address \_\_\_\_\_  
 General Contractor \_\_\_\_\_  
 Distributor \_\_\_\_\_  
 Model \_\_\_\_\_ Quantity \_\_\_\_\_ Voltage/Phase \_\_\_\_\_

### Certified For Construction

By \_\_\_\_\_  
 Company \_\_\_\_\_  
 Address \_\_\_\_\_  
 Date \_\_\_\_\_

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## PRODUCT SPECIFICATIONS

### 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
Blade End Winglets	Aluminum 3003-H14

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 & 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	120V 1Ø* or 208-230V 1Ø or 3Ø or 460-480V 3Ø or 575V 3Ø**

Motor	
Enclosure / Insulation Class / Efficiency Class	IP65
Motor	DC Brushless
Torque & Temperature Range	85 Nm / 188 Nm / 0 -122°F / -17.78 -50°C

VFD Assembly	
Enclosure	NEMA 1
Remote CAT 5E Cable	1 - 100 Feet / 30.48 Meters
Communication Protocol	Modbus RTU
Disconnect	Panel Mount, UL/CE
UL Certified	*50hz Operation (Optional)*

Fan Control Station	
Type	Touchscreen LCD
Connection	CAT 5E (provided)
Mounting	STD Wall J-Box

Warranty	
Lifetime Warranty on Blades, Hub & Frame	15-Year Mechanical
15-Year Non Pro Rated	7-Year Electrical
1-Year Labor	1-Year on all Controls

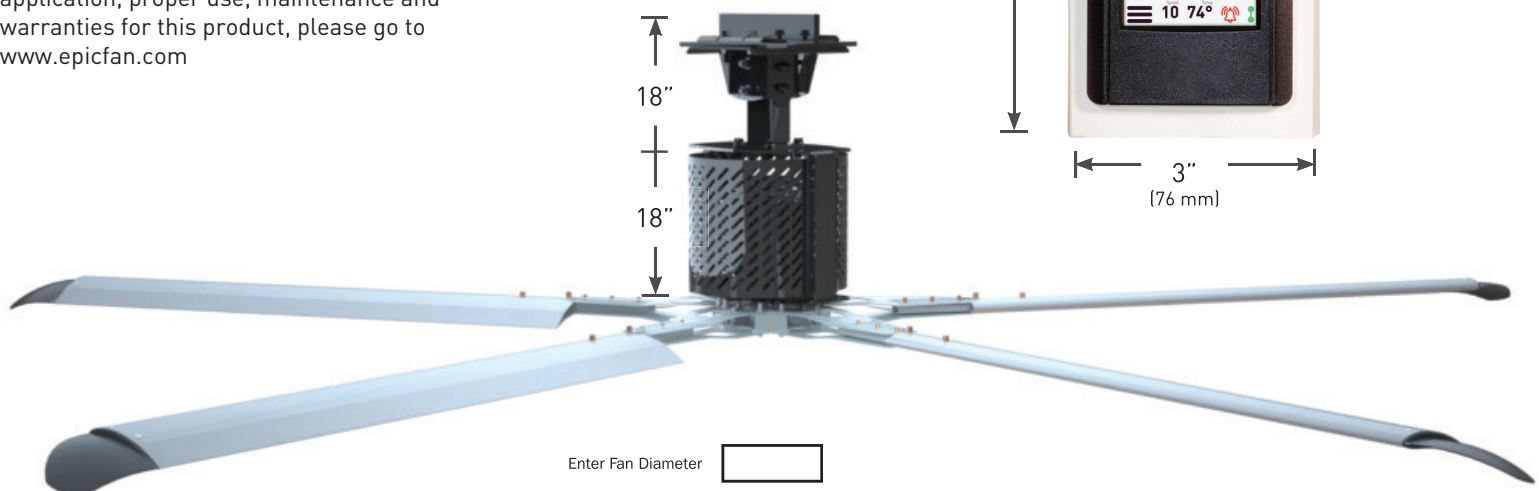
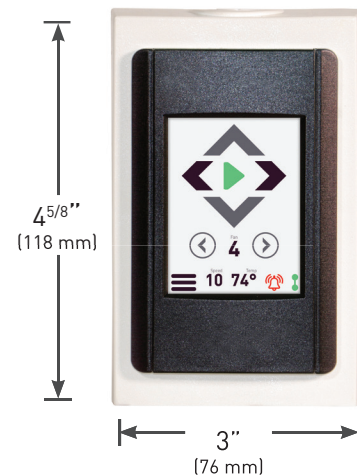
\* up to 14 ft diameter only

\*\* requires additional transformer enclosure

### NOTICE

For more complete information on the application, proper use, maintenance and warranties for this product, please go to [www.epicfan.com](http://www.epicfan.com)

Fan Size	Hanging Weight	Normal Industrial Spacing	RPM
8 FT 85NM 1 HP	166 lbs. (75 kg)	55 feet	198
10 FT 85NM 1 HP	174 lbs. (79 kg)	60 feet	154
12 FT 85NM 1 HP	183 lbs. (83 kg)	65 feet	125
14 FT 85NM 1 HP	191 lbs. (86 kg)	70 feet	106
16 FT 188NM 2 HP	216 lbs. (97 kg)	90 feet	92
18 FT 188NM 2 HP	224 lbs. (101 kg)	95 feet	81
20 FT 188NM 2 HP	232 lbs. (105 kg)	100 feet	72
24 FT 188NM 2 HP	249 lbs. (112 kg)	110 feet	55



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# SUMMIT DIRECT DRIVE HVLS FAN

## PRODUCT SPECIFICATIONS

### HIGH VOLUME LOW SPEED FAN

CFM									
Fan Size / Impeller Diameter	Calculated % of Max 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 = 77.36
8'	100%	40,475	196	480 V / 3 PHASE	480 / 3 / 60	657	FORWARD	10.4 W	61.64
8'	80%	31,672	157	480 V / 3 PHASE	480 / 3 / 60	370	FORWARD	10.4 W	85.68
8'	60%	23,796	118	480 V / 3 PHASE	480 / 3 / 60	225	FORWARD	10.4 W	105.73
8'	40%	15,916	79	480 V / 3 PHASE	480 / 3 / 60	154	FORWARD	10.4 W	103.15
8'	20%	7,740	39	480 V / 3 PHASE	480 / 3 / 60	130	FORWARD	10.4 W	59.50
CFM									
Fan Size / Impeller Diameter	Calculated % of Max 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 = 102.98
10'	100%	59,606	154	480 V / 3 PHASE	480 / 3 / 60	716	FORWARD	10.8 W	83.30
10'	81%	47,719	124	480 V / 3 PHASE	480 / 3 / 60	442	FORWARD	10.8 W	107.96
10'	60%	34,926	92	480 V / 3 PHASE	480 / 3 / 60	244	FORWARD	10.8 W	142.97
10'	40%	23,239	62	480 V / 3 PHASE	480 / 3 / 60	169	FORWARD	10.8 W	137.94
10'	20%	10,945	31	480 V / 3 PHASE	480 / 3 / 60	132	FORWARD	10.8 W	82.82
CFM									
Fan Size / Impeller Diameter	Calculated % of Max 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 = 130.46
12'	100%	80,305	125	480 V / 3 PHASE	480 / 3 / 60	796	FORWARD	9 W	100.95
12'	80%	63,805	100	480 V / 3 PHASE	480 / 3 / 60	462	FORWARD	9 W	138.24
12'	60%	47,510	75	480 V / 3 PHASE	480 / 3 / 60	261	FORWARD	9 W	182.23
12'	40%	31,245	50	480 V / 3 PHASE	480 / 3 / 60	174	FORWARD	9 W	179.89
12'	20%	15,041	25	480 V / 3 PHASE	480 / 3 / 60	123	FORWARD	9 W	122.08
CFM									
Fan Size / Impeller Diameter	Calculated % of Max 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 = 148.74
14'	100%	106,143	106	480 V / 3 PHASE	480 / 3 / 60	982	FORWARD	10.3 W	108.08
14'	80%	84,784	85	480 V / 3 PHASE	480 / 3 / 60	532	FORWARD	10.3 W	159.51
14'	59%	62,625	63	480 V / 3 PHASE	480 / 3 / 60	289	FORWARD	10.3 W	216.78
14'	40%	41,616	42	480 V / 3 PHASE	480 / 3 / 60	181	FORWARD	10.3 W	230.12
14'	20%	20,288	21	480 V / 3 PHASE	480 / 3 / 60	127	FORWARD	10.3 W	159.39
CFM									
Fan Size / Impeller Diameter	Calculated % of Max 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 = 180.04
16'	100%	132,919	90	480 V / 3 PHASE	480 / 3 / 60	970	FORWARD	10.7 W	136.98
16'	80%	106,297	72	480 V / 3 PHASE	480 / 3 / 60	574	FORWARD	10.7 W	185.13
16'	60%	79,701	54	480 V / 3 PHASE	480 / 3 / 60	319	FORWARD	10.7 W	249.57
16'	40%	52,190	36	480 V / 3 PHASE	480 / 3 / 60	186	FORWARD	10.7 W	280.06
16'	20%	24,779	18	480 V / 3 PHASE	480 / 3 / 60	138	FORWARD	10.7 W	179.51
CFM									
Fan Size / Impeller Diameter	Calculated % of Max 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 = 195.76
18'	100%	164,103	81	480 V / 3 PHASE	480 / 3 / 60	1,136	FORWARD	10.2 W	144.43
18'	80%	131,713	65	480 V / 3 PHASE	480 / 3 / 60	637	FORWARD	10.2 W	206.85
18'	60%	99,141	49	480 V / 3 PHASE	480 / 3 / 60	361	FORWARD	10.2 W	274.22
18'	40%	63,637	32	480 V / 3 PHASE	480 / 3 / 60	201	FORWARD	10.2 W	317.34
18'	20%	29,406	16	480 V / 3 PHASE	480 / 3 / 60	148	FORWARD	10.2 W	199.24
CFM									
Fan Size / Impeller Diameter	Calculated % of Max 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 = 213.64
20'	100%	191,503	72	480 V / 3 PHASE	480 / 3 / 60	1,237	FORWARD	13 W	154.83
20'	81%	150,687	58	480 V / 3 PHASE	480 / 3 / 60	663	FORWARD	13 W	227.28
20'	61%	112,404	44	480 V / 3 PHASE	480 / 3 / 60	366	FORWARD	13 W	306.83
20'	40%	64,476	29	480 V / 3 PHASE	480 / 3 / 60	198	FORWARD	13 W	341.53
20'	19%	37,997	14	480 V / 3 PHASE	480 / 3 / 60	149	FORWARD	13 W	262.44
CFM									
Fan Size / Impeller Diameter	Calculated % of Max 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 = 280.71
24'	100%	237,716	55	480 V / 3 PHASE	480 / 3 / 60	1,193	FORWARD	11 W	199.33
24'	80%	189,628	44	480 V / 3 PHASE	480 / 3 / 60	641	FORWARD	11 W	295.67
24'	60%	135,762	33	480 V / 3 PHASE	480 / 3 / 60	336	FORWARD	11 W	404.32
24'	40%	88,311	22	480 V / 3 PHASE	480 / 3 / 60	188	FORWARD	11 W	468.97
24'	20%	53,577	11	480 V / 3 PHASE	480 / 3 / 60	143	FORWARD	11 W	375.96



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