

MINI PROP SERIES

SUBMITTAL DATA - HVLS CEILING FANS & ACCESSORIES

SUBMITTED BY:		DATE:					
JOB TITLE:		CONTRACTOR:					
ADDRESS:			PHONE #:				
CITY:		ADDRESS:					
STATE:	ZIP:	CITY:					
		STATE:					
ENGINEER:							
LOCAL REPRESENTATIVE:							

QTY.	MODEL#	FAN DIAMETER	VOLTAGE RANGE	MOTOR FLA	PHASE	НР	AREA COVERED	MAX EFFECTIVE DIAMETER	MAX SPEED	INSTALLED WEIGHT
	MP-0618-312-1		120V	5.2	1	1.35 HP (1.0 kW)	2,826 Ft² (262 m²)	60 Ft. (18 m)	204 RPM	96 lb (44 kg)
	MP-0618-323-1	6 Ft. (1.8 m)	230V		1					
	MP-0618-323-3	, ,	230V		3					
	MP-0618-312-1	8 Ft. (2.4 m)	120V		1	1.35 HP (1.0 kW)	5,024 Ft² (467m²)	80 Ft. (24 m)	156 RPM	100 lb (45 kg)
	MP-0618-323-1		230V	5.2	1					
	MP-0824-323-3		230V		3					
	MP-1030-312-1	10 Ft. (3.0 m)	120V		1	1.35 HP (1.0 kW)	7,850 Ft² (730 m²)	100 Ft. (30 m)	102 RPM	105 lb (48 kg)
	MP-1030-323-1		230V	5.2	1					
	MP-1030-323-3		230V		3					. 9,

www.skybladefans.com LSMP3_0619

MINI PROP SPECIFICATIONS

AIRFOILS

- Equipped with 3 airfoils
- Extruded anodized aluminum
- High performance E420 design with STOL technology

CONSTRUCTION

- Mounting is to be 1/4" powdercoated steel and anodized aluminum
- All construction is to be protected from the elements
- Stainless steel safety brackets

VFD

- Onboard, IP65 rating
- Factory assembled & programmed
- Minimum start/stop torque loads

WINGTIP FENCE

- Equipped with 3 wingtip fences
- Constructed of nylon 66
- Redirect outward airflow into downward airflow

MOTOR

- Direct drive ECM motor
- Totally enclosed
- IP65 rating
- Class F insulation
- 1.35HP (1.0 kW) nominal horsepower
- 115V models include a 15 ft. pigtail for power connection

STANDARD LIMITED WARRANTY

- 5 year: Motor
- 1 year: Electronics
- Lifetime: Airfoil
- Extended warranties available

MINI PROP SERIES SAFETY CLEARANCES & DROP HEIGHT

MODEL #	DIAMETER	SIDE	ABOVE	BELOW	MIN. AIRFOIL HEIGHT	AIRFOIL DROP HEIGHT
MP-0618	6 Ft (1.8 m)	11"	25''	11"	10'	29''
MP-0824	8 Ft (2.4 m)	15"	25''	15"	10'	29''
MP-1030	10 Ft (3.0 m)	18''	25''	18"	10'	29"

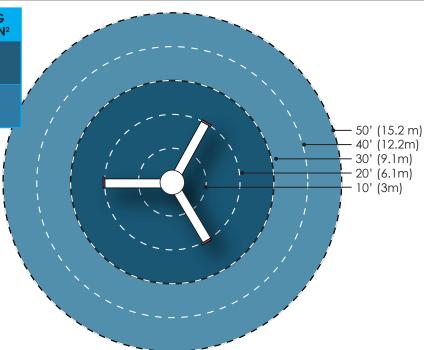
¹ All dimensions are based on a standard 1 ft. extension bar.



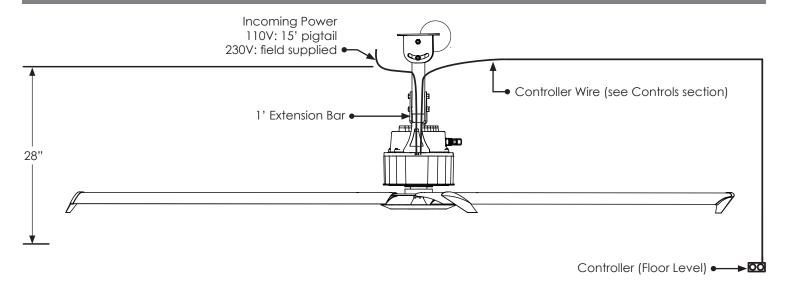
MINI PROP SERIES MAX EFFECTIVE DIAMETER

) fpm m/s	14 - 15°F 8 - 10°C
	9 - 15°F 5 - 8°C
) fpm m/s

² Stated values are estimations based on standard installation at maximum power. Values such as building layout, obstructions, ceiling height, and drop ceiling height may effect these numbers.



MINI PROP SERIES INSTALLATION



MINI PROP SERIES OPTIONAL ACCESSORIES & UPGRADES

QTY.	PART#	DESCRIPTION	ON	NOTES							
EXTENS	ION BARS										
	1002-X	Extension Ba	r	Lowers assembly in 1 ft increments. All models come standard with a 1 ft. extension. Custom lengths up to 5-ft. are available.							
QTY.	1'		2'		3'		4'	5'			
CONTR	OLLER TYPES										
	1034-1	Single Yoke	Controller			ch and 0-10 spe d One per fan		eed. NEMA 4x enclosure. (qty. 1)			
	1034-2	Double Yoke	Controller	Includes Fwd/Off/Rev switch and 0-10 speed pot to control fan speed. NEMA 4x enclosure. (qty 2) 100 Ft. wire factory supplied One per two fans required.							
	1034-3	Triple Yoke C	Controller	Includes Fwd/Off/Rev switch and 0-10 speed pot to control fan speed. NEMA 4x enclosure. (qty 3) 100 Ft. wire factory supplied One per three fans required.							
	1047-DD	Touch 'N' Go	3.0 Controller	digital interfo	ace with passwo	ord lockout capa	bility. 50 Ft. wire factory su	• •	ully		
	1047-PC-XX	Touch 'N' Go Controller	Premier	Operate 1-10 fans in forward/reverse with 0-100% speed control. Mounts to wall or electric gang box. Fully digital interface with password lockout capability. [XX] = 1-2 fans [02], 3-4 fans [04], 5-6 fans [06], 7-8 fans [08], 9-10 fans [10]							
	1067	UltraLite Con	traLite Controller Control each fan individually in the forward direction. Allows operation of the fan for cooling & destratification. Wire to be field supplied One per fan required.								
	1069	VLD Controlle	er	Control each fan individually via an economic digital interface. Wire to be field supplied.							
OPTION	NAL ACCESSORII	ES									
	1044	Purlin Mounti	ng System	Mounting sy	rstem for hangi	ng SkyBlade Far	ns along purlin ceiling bro	aces (hardware included).			
	1050	230v Line Re	actor	Cleans dirty voltage by reducing harmonic current and transient voltages. Includes one Nema 1 enclosure.							
	1054	Lockable Co	ntroller Shroud	Add-on for t included).	he yoke contro	oller to allow the	m to be padlocked. Inclu	udes two (2) shrouds (Lock not			
	6080	I-Beam Ada	oter Kit	Required for	Required for installing to an I-Beam.						
LIMITED	WARRANTY UPO	GRADES									
	1061	Standard Lev	vel Warranty	Standard lim	nited warranty	5 years-motor &	reducer/1 year-electron	nic controls/lifetime-airfoils, chassi	sis &		
	1062	Bronze Level	Warranty	Upgrade warranty to 7 years-motor & reducer/3 years-electronic controls/lifetime-airfoils, chassis & h					hub.		
	1063	Silver Level V	Varranty	Upgrade wo	arranty to 10 ye	ears-motor & rec	ducer/3 years-electronic	controls/lifetime-airfoils, chassis &	k hub.		
	1064	Gold Level V	/arranty	Upgrade wo	arranty to 12 ye	ears-motor & rec	ducer/7 years-electronic	controls/lifetime-airfoils, chassis &	k hub.		

NOTE: Refer to the Accessory List for detailed specifications and limitations on any of the above options.

MINI PROP SERIES WRITTEN SPECIFICATIONS

HIGH VOLUME LOW SPEED FANS

- A. Basis-of-design product: Subject to compliance with requirements, provide WD Industries, dba SkyBlade Fan Company; Mini Prop Series high volume low speed ceiling fans.
- B. Complete Unit: The fan shall be designed to move an effective amount of air for cooling and Destratification in large industrial/commercial applications over an extended life. The fan and components shall be designed specifically for high volume, low speed fans to ensure lower noise operation. The sound levels from the fan operating at maximum speed shall not exceed 35 dBA (measured 20' or 6.1 m below the blades and 20' or 6.1 m horizontally from the center of the fan).
- C. Airfoils: The fan shall be equipped with three (3) high volume, low speed airfoils of precision 6005-T5 extruded anodized aluminum alloy. Each airfoil shall be of the high performance E420 (Short Take-Off and Landing) design. The airfoils shall be connected by means of two (2) locking bolts per airfoil. The airfoils shall be connected to "H-Strut" which is connected to the hub and interlocked with two sets of three (3) stainless steel retainers.
- D. Wingtip Fence: The fan shall be equipped with three (3) FNTM wingtip fences designed to redirect outward airflow into downward airflow, thereby enhancing the efficiency and effectiveness of the fan. The wingtips shall be molded of Nylon 66 and nominally measure 10"x6-3/8" (25.4 cm x 16.2 cm). The wingtips shall be attached at the tip of each airfoil by means of a single screw. The standard color of the winglets shall be "SkyBlade Red," but may also be offered in black.
- E. Motor: The fan motor shall be an ECM (Electronically Commutated Motor), BLDC (Brushless DC), gearless direct drive 230V, 1-3 Ph and 110V, 1 Ph. The motor shall be totally enclosed with an IP65 NEMA classification. The motor shall be manufactured with Class F insulation. The output shaft of the motor shall have bearings that are lubed for life.
- F. Extension Bar: The fan shall be equipped with an extension bar that provides a structural connection between the fan assembly and upper mounting system. The extension bar shall be aluminum 2" x 2" (5.08 cm x 5.08 cm) square tubing and powder-coated for corrosion resistance and appearance. Standard length of extension bar is 1 FT available in 1 FT increments up to 10 FT as specified by the architect or owner.
- G. Hub: The fan hub shall be minimum 1/4" precision press broken stainless steel for high strength and rigidity. The hub shall be secured to the output shaft of the motor by means of a precision cut stainless steel cylinder & interlocking bushing system. Both hub and steel bushing shall be precision machined to achieve a factory balanced and solid rotating assembly. The hub shall incorporate three (3) safety retaining brackets no less than 1/8"made of stainless steel that shall restrain the hub/airfoil assembly in case of motor output shaft failure.

- H. Mounting System: The fan mounting system shall be designed for quick and secure installation from a structural support beam. All components in the mounting system shall be of welded construction using 1/4" powder-coated steel. All mounting bolts shall be Grade 5 or Grade 8 SAE.
- I. Guy Wire: The fan shall be equipped with a safety cable that provides an additional means of securing the fan assembly to the building structure. The safety cable shall be a four point restraint 3/16" (.47 cm) diameter and fabricated out of 7 x 19 stranded galvanized steel with each cable having a breaking strength of 2,475 lbs. The cable is to be secured with supplied wire rope clips or fasteners. Field construction of safety cables is not permitted.
- J. Safety Cable: The fan shall be equipped with a safety cable that provides an additional means of securing the fan assembly to the building structure. The safety cable shall be 3/16" (.47 cm) diameter and fabricated out of 7 x 19 stranded galvanized steel a break strength of 2,475 lbs. The cable is to be secured with supplied wire rope clips or fasteners. Field construction of safety cables is not permitted.
- K. VFD Enclosure: The fan controller shall be constructed using a Variable Frequency Drive (VFD) that is preassembled and factory programmed to communicate a 60 second ramp up/down to the fan, to minimize the starting and braking torques and for smooth and efficient operation. The VFD enclosure shall be pre-assembled and internally wired for ease of installation. The controller shall be onboard with IP65 rating.
- L. Warranty: The Manufacturer shall replace any products or components defective in material or workmanship, free of charge to the customer (including transportation charges within the USA, F.O.B. Warren, MI), pursuant to the complete terms and conditions of the SkyBlade Fan Company Non-Prorated Warranty in accordance to the following schedule:
 - Airfoils Lifetime (Parts)
 - Hub Lifetime (Parts)
 - Motor 5 years (Parts)*
 - Controller 1 years (Parts)*

*If factory supplied installation methods are shown not to be valid, SkyBlade Fan Company has right to void warranty. Further Information on the terms and conditions of the standard & purchased warranties can be found in Warranty Card.

SKYBLADE FAN COMPANY