5.7" (145mm) BLDC Thru Flow Blower

24 VDC Input, High Flow System



Windiam

	Part/ Model Number				
Specification	Units	150409	150439	150410	150440
Stages	-	1	1	2	2
Input Voltage	VDC	24	24	24	24
Max Sealed Pressure	in. H2O	33	33	55	55
	mbar	82.2	82.2	137	137
Max Open Flow Rate	CFM	123	123	95	95
	m3/hr	209.1	209.1	161.5	161.5
Length (L)	Inches	0.81	0.81	1.81	1.81
	mm	20.6	20.6	46	46
Speed Control	-	Anlg. Spd. Cmd.	Potent. Adjust.	Anlg. Spd. Cmd.	Potent. Adjust.

Notes:

• Temperature: Working Air: 0°C to 45°C , Ambient Air: 0°C to 45°C, Storage: -40°C to 85°C.

• When used as a vacuum, the blower performance might be less then shown herein, depending on the operating point.

• Weight = 6 lb / 2.2 Kg

Potentiometer Adjustment (Potent. Adjust.) - The specified supply voltage is applied and the speed is set by adjusting a potentiometer on the side of the blower.

Analog Speed Command (Anlg. Spd. Cmd.) - Blower speed is proportional to an analog speed command signal. The range over which the speed command signal operates can be calibrated within 0-10V by adjusting the sensitivity potentiometer accessed through the side of the blower. The sensitivity adjustment is also useful for precisely calibrating a group of blowers to the same speed for a given operating point and command signal voltage.

Tachometer Output - All of the models listed above come equipped with a tachometer output: a square wave output that is proportional to blower speed. The frequency of the tachometer output sigal is 2x the blower's rotational frequency.



This document is for informational purposes only and should not be considered as a binding description of the products or their performance in all applications. The performance data on this page depicts typical performance under controlled laboratory conditions. AMETEK is not responsible for blowers driven beyond factory specified speed, temperature, pressure, flow or without proper alignment. Actual performance will vary depending on the operating environment and application. AMETEK products are not designed for and should not be used in medical life support applications. AMETEK reserves the right to revise its products without notification. The above characteristics represent standard products. For product designed to meet specific applications, contact AMETEK Dynamic Fluid Solutions Sales department.





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5.7" (145mm) BLDC Thru Flow Blower

Windjemmer[®]

24 VDC Input, High Flow System

Typical Performance



Data presented represents blower performance at STANDARD AIR DENSITY, .075 lb/ft³ (29.92" Hg, Sea Level, 68° F) Vacuum performance available upon request.





5.7" (145mm) BLDC Thru Flow Blower

24 VDC Input, Standard Flow System



Windj<u>emn</u>

		Part/ Model Number					
Specification	Units	150406	150437	150407	150438		
Stages	-	1	1	2	2		
Input Voltage	VDC	24	24	24	24		
Max Sealed Pressure	in. H2O	37	37	62	62		
	mbar	92.2	92.2	154.4	154.4		
Max Open Flow Rate	CFM	79	79	72	72		
	m3/hr	134.3	134.3	122.4	122.4		
Length (L)	Inches	.81	.81	1.50	1.50		
	mm	20.6	20.6	38.1	38.1		
Speed Control	-	Anlg. Spd. Cmd.	Potent. Adjust.	Anlg. Spd. Cmd.	Potent. Adjust.		

Notes:

• Temperature: Working Air: 0°C to 45°C , Ambient Air: 0°C to 45°C, Storage: -40°C to 85°C.

• When used as a vacuum, the blower performance might be less then shown herein, depending on the operating point.

• Weight = 6 lb / 2.2 Kg

Potentiometer Adjustment (Potent. Adjust.) - The specified supply voltage is applied and the speed is set by adjusting a potentiometer on the side of the blower.

Analog Speed Command (Anlg. Spd. Cmd.) - Blower speed is proportional to an analog speed command signal. The range over which the speed command signal operates can be calibrated within 0-10V by adjusting the sensitivity potentiometer accessed through the side of the blower. The sensitivity adjustment is also useful for precisely calibrating a group of blowers to the same speed for a given operating point and command signal voltage.

Tachometer Output - All of the models listed above come equipped with a tachometer output: a square wave output that is proportional to blower speed. The frequency of the tachometer output signal is 2x the blower's rotational frequency.









5.7" (145mm) BLDC Thru Flow Blower

24 VDC Input, Standard Flow System

Typical Performance



Data presented represents blower performance at STANDARD AIR DENSITY, .075 lb/ft³ (29.92" Hg, Sea Level, 68° F) Vacuum performance available upon request.





5.7" (145mm) BLDC Thru Flow Blower

48 VDC Input, High Flow System

INCH [MM]





<u>Windjamn</u>

	-	Part/ Model Number					
Specification	Units	150419	150449	150420	150450		
Stages	-	1	1	2	2		
Input Voltage	VDC	43-53	43-53	43-53	43-53		
May Saalad Draaaura	in. H2O	26.0	26.0	53	53		
Max Sealed Flessure	mbar	64.8	64.8	132	132		
Max Flow Rate	CFM	111.0	111.0	85.9	85.9		
	m3/hr	188.7	188.7	146	146		
Length (L)	Inches	.81	.81	1.81	1.81		
	mm	20.6	20.6	46	46		
Speed Control	-	Analog	Potent. Adjust.	Analog	Potent. Adjust.		

Notes:

• Temperature: Working Air: 0°C to 45°C , Ambient Air: 0°C to 45°C, Storage: -40°C to 85°C.

• When used as a vacuum, the blower performance might be less then shown herein, depending on the operating point.

• Weight = 6 lb / 2.2 Kg

Potentiometer Adjustment (Potent. Adjust.) - The specified supply voltage is applied and the speed is set by adjusting a potentiometer on the side of the blower.

Analog Speed Command (Anlg. Spd. Cmd.) - Blower speed is proportional to an analog speed command signal. The range over which the speed command signal operates can be calibrated within 0-10V by adjusting the sensitivity potentiometer accessed through the side of the blower. The sensitivity adjustment is also useful for precisely calibrating a group of blowers to the same speed for a given operating point and command signal voltage.





Low Voltage Brushless DC Blowers 5.7" (145mm) BLDC Thru Flow Blower

Windjemmer

48 VDC Input, High Flow System

Typical Performance



Data presented represents blower performance at STANDARD AIR DENSITY, .075 lb/ft³ (29.92" Hg, Sea Level, 68° F) Vacuum performance available upon request.



5.7" (145mm) BLDC Thru Flow Blower

48 VDC Input, High Flow System

INCH [MM]





<u>Windjamn</u>

		Part/ Model Number						
Specification	Units	150417	150447	150129	150462	150418	150448	
Stages	-	1	1	2	2	3	3	
Input Voltage	VDC	43-53	43-53	43-53	43-53	43-53	43-53	
Max Sealed Pressure	in. H2O	41.5	41.5	71.8	71.8	80	80	
	mbar	103.4	103.4	178.9	178.9	199.3	199.3	
Max Flow Rate	CFM	80.5	80.5	65.9	65.9	63	63	
	m3/hr	136.9	136.9	112	112	107.1	107.1	
Length (L)	Inches	0.81	0.81	1.50	1.50	2.17	2.17	
	mm	20.6	20.6	38.1	38.1	55.1	55.1	
Speed Control	-	Analog	Potent. Adjust.	Analog	Potent. Adjust.	Analog	Potent. Adjust.	

Notes:

• Temperature: Working Air: 0°C to 45°C , Ambient Air: 0°C to 45°C, Storage: -40°C to 85°C.

• When used as a vacuum, the blower performance might be less then shown herein, depending on the operating point.

• Weight = 6 lb / 2.2 Kg

Potentiometer Adjustment (Potent. Adjust.) - The specified supply voltage is applied and the speed is set by adjusting a potentiometer on the side of the blower.

Analog Speed Command (Anlg. Spd. Cmd.) - Blower speed is proportional to an analog speed command signal. The range over which the speed command signal operates can be calibrated within 0-10V by adjusting the sensitivity potentiometer accessed through the side of the blower. The sensitivity adjustment is also useful for precisely calibrating a group of blowers to the same speed for a given operating point and command signal voltage.







5.7" (145mm) BLDC Thru Flow Blower

48 VDC Input, Standard Flow System

Typical Performance



Data presented represents blower performance at STANDARD AIR DENSITY, .075 lb/ft³ (29.92" Hg, Sea Level, 68° F) Vacuum performance available upon request.



5.7" (145mm) BLDC Thru Flow Blower

72 VDC Input, High Flow System

INCH [MM]





Windj<u>em</u>r

		Part/ Model Number					
Specification	Units	150429	150459	150430	150460		
Stages	-	1	1	2	2		
Input Voltage	VDC	64-79	64-79	64-79	64-79		
Max Sealed Pressure	in. H2O	37.9	37.9	65.8	65.8		
	mbar	94.4	94.4	163.9	163.9		
Max Flow Rate	CFM	118.9	118.9	95.2	95.2		
	m3/hr	202.1	202.1	161.8	161.8		
Length (L)	Inches	0.81	0.81	1.81	1.81		
	mm	20.6	20.6	46	46		
Speed Control	-	Analog Spd. Cmd.	Potent. Adjust.	Analog	Potent. Adjust.		

Notes:

• Temperature: Working Air: 0°C to 45°C, Ambient Air: 0°C to 45°C, Storage: -40°C to 85°C.

• When used as a vacuum, the blower performance might be less then shown herein, depending on the operating point.

• Weight = 6 lb / 2.2 Kg

Potentiometer Adjustment (Potent. Adjust.) - The specified supply voltage is applied and the speed is set by adjusting a potentiometer on the side of the blower.

Analog Speed Command (Anlg. Spd. Cmd.) - Blower speed is proportional to an analog speed command signal. The range over which the speed command signal operates can be calibrated within 0-10V by adjusting the sensitivity potentiometer accessed through the side of the blower. The sensitivity adjustment is also useful for precisely calibrating a group of blowers to the same speed for a given operating point and command signal voltage.





5.7" (145mm) BLDC Thru Flow Blower

Windjemmer

72 VDC Input, High Flow System

Typical Performance



Data presented represents blower performance at STANDARD AIR DENSITY, .075 lb/ft³ (29.92" Hg, Sea Level, 68° F) Vacuum performance available upon request.





5.7" (145mm) BLDC Thru Flow Blower

72 VDC Input, Standard Flow System

INCH [MM]





Windj<u>em</u>

Ø6.50 [Ø165.10] BOLT CIRCLE

		Part/ Model Number					
Specification	Units	150427	150457	150128	150462	150428	150458
Stages	-	1	1	2	2	3	3
Input Voltage	VDC	64-79	64-79	64-79	64-79	64-79	64-79
May Galad Drasswa	in. H2O	35.8	35.8	72.1	72.1	97.7	97.7
Max Sealed Flessule	mbar	89.2	89.2	179.6	179.6	243.4	243.4
Max Flow Rate	CFM	85.5	85.5	74.7	74.7	63.5	63.5
	m3/hr	145.4	145.4	127	127	108	108
Length (L)	Inches	0.81	0.81	1.50	1.5	2.17	2.17
	mm	20.6	20.6	38.1	38.1	55.1	55.1
Speed Control	-	Analog	Potent. Adjust.	Analog	Potent. Adjust.	Analog	Potent. Adjust.

Notes:

• Temperature: Working Air: 0°C to 45°C , Ambient Air: 0°C to 45°C, Storage: -40°C to 85°C.

• When used as a vacuum, the blower performance might be less then shown herein, depending on the operating point.

• Weight = 6 lb / 2.2 Kg

Potentiometer Adjustment (Potent. Adjust.) - The specified supply voltage is applied and the speed is set by adjusting a potentiometer on the side of the blower.

Analog Speed Command (Anlg. Spd. Cmd.) - Blower speed is proportional to an analog speed command signal. The range over which the speed command signal operates can be calibrated within 0-10V by adjusting the sensitivity potentiometer accessed through the side of the blower. The sensitivity adjustment is also useful for precisely calibrating a group of blowers to the same speed for a given operating point and command signal voltage.







5.7" (145mm) BLDC Thru Flow Blower

72 VDC Input, Standard Flow System

Typical Performance



Data presented represents blower performance at STANDARD AIR DENSITY, .075 lb/ft³ (29.92" Hg, Sea Level, 68° F) Vacuum performance available upon request.





High Voltage Brushless DC Blowers 5.7" (145mm) BLDC Thru Flow Blower

Windjemmer

250 Watt, 120 Volt High Flow



			Part/ Model Number				
Specification	Units	116644 M	116647 E	116645 M	116648 E		
Stages	-	1	1	2	2		
Max Socied Veguum	in. H2O	26.5	26.5	46.7	46.7		
Max Sealed Vacuum	mbar	66	66	116.3	116.3		
May Original Discourse	in. H2O	27.3	27.3	48.1	48.1		
Max Sealed Flessule	mbar	68	68	119.8	119.8		
Max Flow Pata	CFM	130.5	130.5	98.2	98.2		
Max Flow Rate	m3/hr	221.9	221.9	166.9	166.9		
Longth (I)	Inches	0.76	0.76	1.81	1.81		
Length (I)	mm	19.3	19.3	46	46		
Law atta (L)	Inches	3.23	3.23	4.28	4.28		
	mm	82	82	108.7	108.7		
Speed Control	-	Mechanical	Electrical	Mechanical	Electrical		

Notes:

- Input Voltage Range: 108-132 Volts AC RMS, 50/60 Hz., Single Phase.
- Input Current: 5 amps AC RMS
- + Operating Temperature (Ambient Air and Working Air): 0° C to 50° C
- Storage Temperature: -40° C to 85° C
- Dielectric Testing: 1500 Volts AC RMS 60 Hz applied for one second between input pins and ground, 3mA leakage maximum.
- Speed Control: E (Electrical) Pulse Width Modification or Analog input voltage (user supplied), 0 to 10 Volts DC, 10mA maximum, 3 to 15 Volts DC. Access to sensitivity adjustment for 0 to 10 VDC speed control. (Ref. pin connection).

M (Mechanical): A potentiometer is available for speed control of the blower. The potentiometer can be preset for a specific speed. Access for speed adjustment located in blower housing.

• Approximate Weight: 6 Lbs. / 2.2 Kg.

- Regulatory Agency Certification: Underwriters Laboratories, Inc. qualified per UL507 under File E-94403. Canadian Standards Association qualified per C22.2#113 under File LR 43448.
 - Miscellaneous: Intake and exhaust tubes, all cooling ducts and vents must not be obstructed. Intake and exhaust must be free of grease, oil and foreign particles. Amp housing 640250-6 w/SL-156 contacts (supplied by customer) mates with post header assembly.
 - Mating harness available upon request.

Optional IntelliGen[™] controller available for customized performance and features including: tachometer output card; Universal AC input (100V-240V).



High Voltage Brushless DC Blowers

5.7" (145mm) BLDC Thru Flow Blower

Windjemmer

250 Watt, 120 Volt High Flow

Typical Performance



Data presented represents blower performance at STANDARD AIR DENSITY, .075 lb/ft³ (29.92" Hg, Sea Level, 68° F) Vacuum performance available upon request.



High Voltage Brushless DC Blowers

Windjemmer

5.7" (145mm) BLDC Thru Flow Blower

250 Watt, 120 Volt Standard Flow



			Part/ Mode	el Number	
Specification	Units	116626	116629	116627	116630
Stages	-	1	1	2	2
Max Socied Veguum	in. H2O	28.4	28.4	50.0	50.0
Max Sealed Vacuum	mbar	70.7	70.7	124.6	124.6
Mary Galada Dava and	in. H2O	29.3	29.3	50.6	50.6
Max Sealed Flessule	mbar	73	73	126	126
Max Flow Pata	CFM	64.5	64.5	66	66
Max Flow Rate	m3/hr	109.7	109.7	112.2	112.2
Length (I)	Inches	0.69	0.69	1.60	1.60
	mm	17.5	17.5	40.6	40.6
Loweth (L)	Inches	3.16	3.16	4.07	4.07
	mm	80.3	80.3	103.4	103.4
Speed Control	-	Mechanical	Electrical	Mechanical	Electrical

Notes:

- Input Voltage Range: 108-132 Volts AC RMS, 50/60 Hz., Single Phase.
- Input Current: 5 amps AC RMS
- + Operating Temperature (Ambient Air and Working Air): 0° C to 50° C
- Storage Temperature: -40° C to 85° C
- Dielectric Testing: 1500 Volts AC RMS 60 Hz applied for one second between input pins and ground, 3mA leakage maximum.
- Speed Control: E (Electrical) Pulse Width Modification or Analog input voltage (user supplied), 0 to 10 Volts DC, 10mA maximum, 3 to 15 Volts DC. Access to sensitivity adjustment for 0 to 10 VDC speed control. (Ref. pin connection).

M (Mechanical): A potentiometer is available for speed control of the blower. The potentiometer can be preset for a specific speed. Access for speed adjustment located in blower housing.

• Approximate Weight: 6 Lbs. / 2.2 Kg.

- Regulatory Agency Certification: Underwriters Laboratories, Inc. qualified per UL507 under File E-94403. Canadian Standards Association qualified per C22.2#113 under File LR 43448.
 - Miscellaneous: Intake and exhaust tubes, all cooling ducts and vents must not be obstructed. Intake and exhaust must be free of grease, oil and foreign particles. Amp housing 640250-6 w/SL-156 contacts (supplied by customer) mates with post header assembly.
 - Mating harness available upon request.

Optional IntelliGen[™] controller available for customized performance and features including: tachometer output card; Universal AC input (100V-240V).



High Voltage Brushless DC Blowers 5.7" (145mm) BLDC Thru Flow Blower

Windjammer

250 Watt, 120 Volt Standard Flow

Typical Performance



Vacuum performance available upon request.



High Voltage Brushless DC Blowers

5.7" (145mm) BLDC Thru Flow Blower

400 Watt, 240 Volt Standard Flow

INCH [MM]



Windj<u>emm</u>

		Part/ Model Number			
Specification	Units	117629	117630		
Stages	-	1	2		
Max Sealed Vacuum	in. H2O	28	47		
	mbar	69.7	117.1		
May Seeled Pressure	in. H2O	31	50		
Wax Sealed Flessule	mbar	77.2	124.6		
Max Airflow	CFM	67	65		
Max Almow	m3/hr	113.9	110.5		
Longth (I)	Inches	.69	1.6		
Length (I)	mm	17.5	40.6		
Length (L)	Inches	3.21	4.12		
	mm	81.5	104.6		
Speed Control	-	Electrical	Electrical		

- Notes: Input Voltage Range: 216-264 Volts AC RMS, 50/60 Hz., Single Phase.
- Input Current: 5 amps AC RMS
- Operating Temperature (Ambient Air and Working Air): 0° C to 50° C
- Storage Temperature: -40° C to 85° C
- Dielectric Testing: 1800 Volts AC RMS 60 Hz applied for one second between input pins and ground, 3mA leakage maximum.
- Speed Control: E (Electrical) Pulse Width Modification or Analog input voltage (user supplied), 0 to 10 Volts DC, 10mA maximum, 3 to 15 Volts DC. Access to sensitivity adjustment for 0 to 10 VDC speed control. (Ref. pin connection).

M (Mechanical): A potentiometer is available for speed control of the blower. The potentiometer can be preset for a specific speed. Access for speed adjustment located in blower housing.

- Approximate Weight: 6 Lbs. / 2.2 Kg. Regulatory Agency Certification: Underwriters Laboratories, Inc. qualified per UL507 under File E-94403. Canadian Standards Association qualified per C22.2#113 under File LR 43448.
 - Miscellaneous: Intake and exhaust tubes, all cooling ducts and vents must not be obstructed. Intake and exhaust must be free of grease, oil and foreign particles. Amp housing 350809-1 with sockets for 18 awg lead wire (suppled by customer) mates with post header assembly.
 - Mating harness available upon request.

Optional IntelliGen[™] controller available for customized performance and features including; tachometer output card; Universal AC input (100V-240V).



High Voltage Brushless DC Blowers 5.7" (145mm) BLDC Thru Flow Blower

Windjemmer

400 Watt, 240 Volt Standard Flow

Typical Performance



Data presented represents blower performance at STANDARD AIR DENSITY, .075 lb/ft³ (29.92" Hg, Sea Level, 68° F) Vacuum performance available upon request.





AMETEK *Windjammer* Low Voltage Brushless DC blowers offer a wide range of performance for applications with power supplies of 72 VDC and less. The following pages detail each model family, including performance, size, and input voltage.

All brushless DC blowers require an electronic controller for operation. Most of the model families herein are offered with an onboard controller, and there are features and/or options available for customization.

Speed Control: Among the low voltage model families there are several methods for modulating blower speed.

<u>Potentiometer Adjustment</u> \rightarrow the specified supply voltage is applied to power the blower and the speed is set by simply adjusting a potentiometer on the side of the blower.

<u>Analog Speed Command Signal</u> \rightarrow blower speed is proportional to an analog command signal. Depending on the particular model, the range of the command signal is either 0-4V, 0-5V, or adjustable within 0-10V.

(i) For *5.0 inch Windjammer* models equipped with analog speed command, blowers operate on a 0-4V command signal. Maximum speed is reached at 4V or less depending on the blower's operating point. The speed command pin may by connected to the blower's 12V or 24V V_{in} pin to ensure full speed.

(ii) The *5.7 inch Windjammer* models have a calibration potentiometer that allows the user to set the range over which the speed command signal operates within a 0-10V range, or to precisely calibrate a group of blowers to the same speed for a given command voltage and operating condition.

(iii) Blowers designed for one of AMETEK's low voltage external controllers can be configured to modulate speed via either a 0-5V analog command signal or potentiometer adjustment as described above.

<u>2-Wire Operation</u> \rightarrow The 3.0, 3.3, and 4.5 inch Windjammers operate with a different type of controller than other model families. These blowers have a simple two-wire configuration. The blower speed is directly proportional to the supply voltage, and there is no separate speed command signal input. The supply voltage powers both the motor winding and the motor controller. Operating points below the minimum specified supply voltage can be achieved by providing a third wire to power the motor controller separately from the motor winding. This feature is available upon request. The specification pages for each of these blower models list the supply voltage range.

Note: None of the blowers herein are designed to maintain constant speed if the blower operating point changes. The speed will change with changing load (the amount of backpressure), even if the speed control remains fixed.

Tachometer Output: A square wave output that is proportional to blower speed comes as a standard feature in the 24VDC 5.7 *inch Windjammer* models, and it's an option that is available in the 3.0, 3.3, and 4.5 *inch Windjammers*. The output signal is a square wave whose signal is 2x the blowers rotational frequency:



External Controllers: All of the models herein can be configured to operate with a separate external controller, and AMETEK's product offering does include several stand-alone controller models. The *5.0 inch Windjammer* model family has standard blower models already configured for external control. The other models (*3.0, 3.3, 4.5, and 5.7 inch Windjammers*) can be custom ordered to operate with an external controller - please contact an Ametek sales representative to inquire. <u>Note</u>: the *5.1 inch Windjammer* must use an external controller - it is not available with internal controller at this time.



General Information

5.7 Bypass or Thru Flow: The 5.7 *inch Windjammer* product family offers two flow path configurations: Bypass or Thru Flow. The Bypass configuration separates the motor and controller from the working air, whereas the working air passes over the motor and controller in a Thru Flow configuration. The Thru Flow configuration shortens the package size but has a narrower range of operation due to thermal limitations of the motor and controller.

Locked-Rotor and Thermal Protection:

5.7 inch Windjammers \rightarrow All models include locked rotor and thermal protection

5.1 inch Windjammer \rightarrow Locked rotor protection depends on the controller being used. If using Ametek 48140 controller, locked rotor protection is enabled. No thermal protection.

5.0 inch Windjammers \rightarrow All models with on-board controllers include locked rotor protection. If using an external controller, locked rotor protection depends on the controller design. Thermal protection is not available for this model family.

3.0, 3.3, and 4.5 inch Windjammers \rightarrow These models have neither locked rotor nor thermal protection. Users are advised to include a fuse for circuit protection. See performance sheets for individual blower models for fuse sizing.

Other Features and Miscellaneous Notes:

- 5.0 inch Windjammers are available with inlet tube for connecting a hose to the blower inlet. See 5.0 inch Windjammer pages herein for details.
- 5.0 inch Windjammers can be equipped with an external balancing disk for applications with tight noise and vibration constraints. Contact AMETEK Sales for inquiries regarding this feature.
- 3.0, 3.3, and 4.5 inch Windjammers can be configured to have separate V_{in} for the controller and the motor, as mentioned above. This allows very low input voltage on the motor (low speed) without shutting down the drive electronics. The controller V_{in} can be configured to accept a specific supply voltage depending on an application's needs.
- 5.7 Windjammers designed for 48V and 72V input do not have an option for tachometer output at this time. 24V models have a tachometer output as a standard feature. Also, the analog speed command for 24V 5.7 Windjammer shares a common with the 24V supply voltage. For the 48V and 72V 5.7 Windjammers, the analog speed command input is isolated from the power supply input. See pages herein for specifics about each model.

