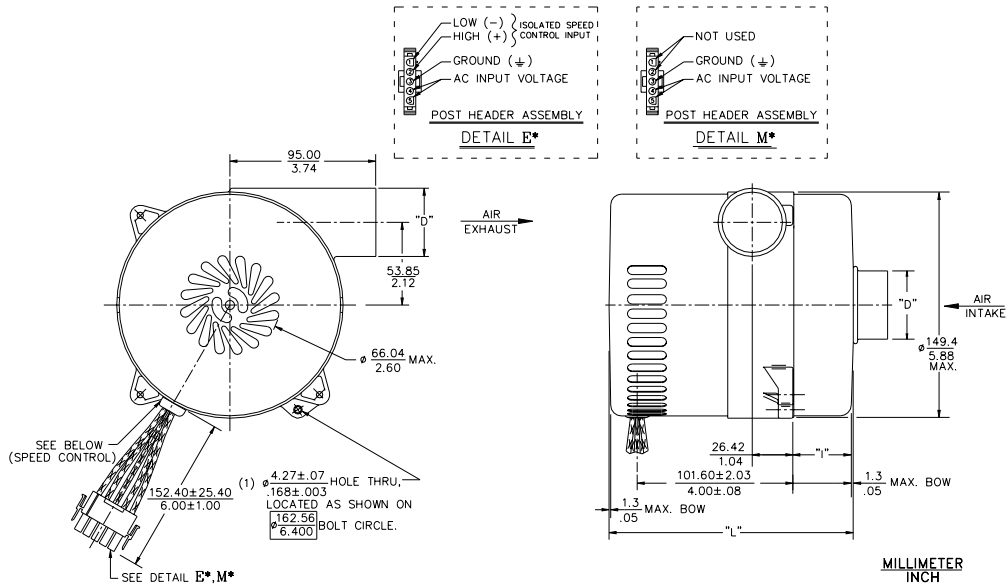


Tech Bulletin

5.7" (145mm) BLDC Bypass Blower

800 WATT, 120 VOLT



Blower Data	Unit of Measure	Part Number			
		Standard Flow	High Flow		Ultra Flow
		117418 M*	119102 M*	119104 M*	
		117417 E*	119101 E*	119103 E*	119105 E*
Stages		3	1	2	1
Vacuum, Max. (Sealed Vacuum)	in. H ₂ O	106	41	71	26
	mBar	263	102	176	64
Pressure, Max. (Sealed Pressure)	in. H ₂ O	115	44	76	29
	mBar	285	109	188	72
Flow Rate, Max. (Open Flow)	CFM	67	161	119	242
	L/sec	32	76	56	114
Inlet/Outlet Diameter	inches	1.25	1.75	1.75	2.75/2.50
Dimension "D" above	mm	31.75	44.45	44.45	69.85/63.50
Length (Dimension "I" above)	inches	2.12	.47	1.53	.71
	mm	53.85	11.94	38.86	18.03
Length (Dimension "L" above)	inches	6.87	5.30	6.35	5.46
	mm	174.50	134.62	161.29	138.68

Typical Performance Points

Air Flow	Pressure				
	in. H ₂ O	in. H ₂ O	in. H ₂ O	in. H ₂ O	in. H ₂ O
0 CFM	115.8	44.1	76.2	29.3	
20 CFM	86.6	41.8	68.4	27.5	
40 CFM	54.9	39.2	57.2	26.1	
60 CFM	18.3	34.1	43.5	23.5	
80 CFM		29.0	33.2	21.6	
100 CFM		23.3	19.8	17.6	
120 CFM		14.4	0	15.8	
140 CFM		7.0		14.1	
160 CFM		0		11.2	
180 CFM				8.2	
200 CFM				5.5	
220 CFM				2.8	
240 CFM				1.2	

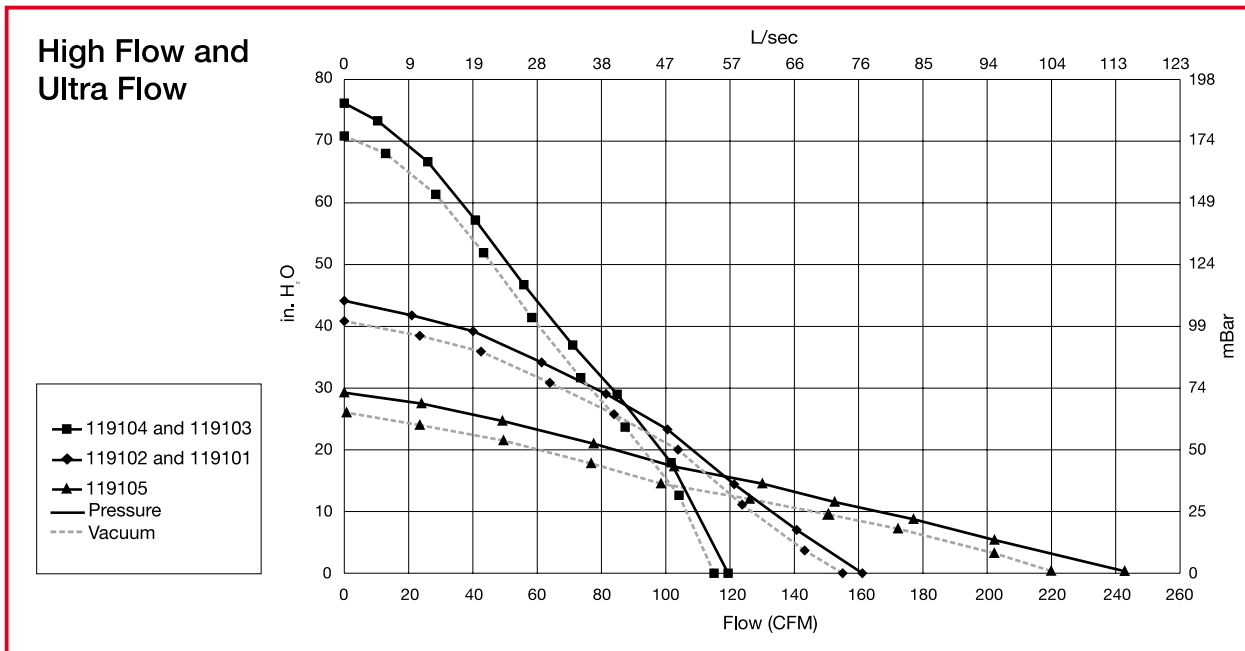
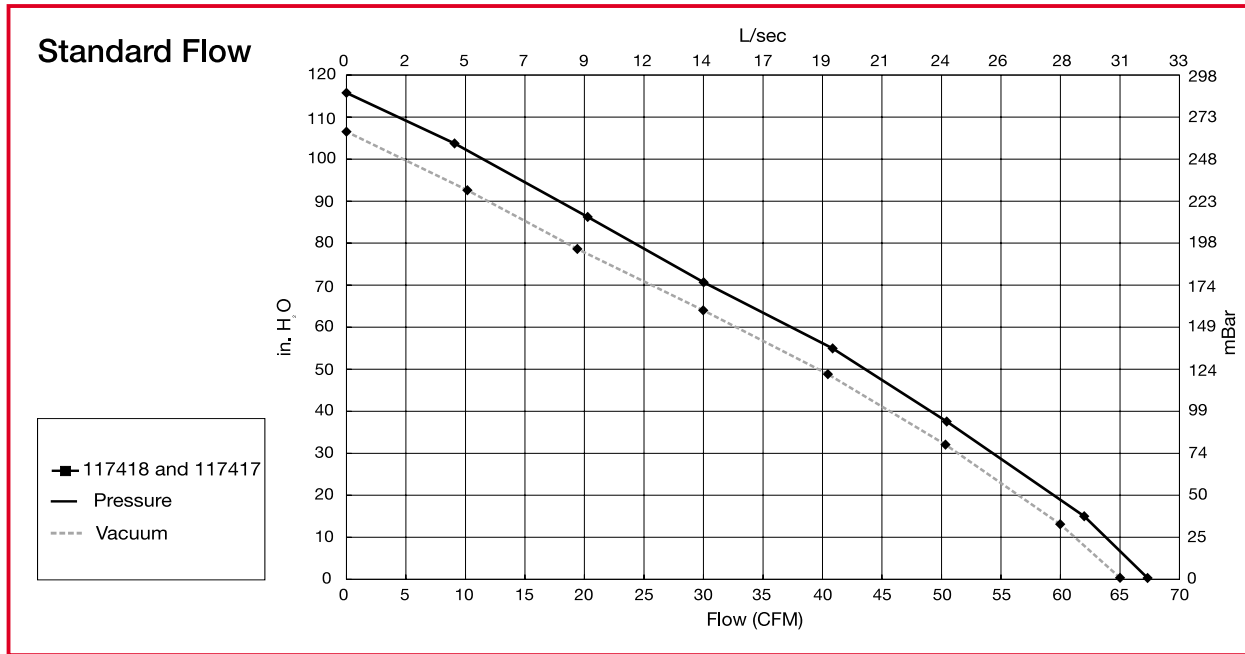
*These part numbers are available through AMETEK Rotron distributors.

NOTES:

- **Nominal input voltage:** 120 Volts AC RMS +/- 10%, 50/60Hz
- **Input current:** 10 amps AC RMS maximum
- **Temperature:** Working Air: 0°C to 50°C, Ambient Air: 0°C to 50°C, Storage Air: -40°C to 85°C
- **Dielectric Testing:** 1500 volts AC RMS 60Hz applied for one second between input pins and ground, 3mA leakage max.
- **Speed Control:** E (Electrical): Pulse Width Modulation or Analog input voltage (User Supplied), 0 to 10 Volts DC Nominal, 10mA Maximum, 3 to 15 volts DC Maximum. Access to sensitivity adjustment for 0-10 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 to speed adjustment.

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800 WATT, 120 VOLT



- **Maximum Approximate Weight:** 6 lbs.
- **Regulatory Agency Certification:** T.U.V. Rheinland Bauart Certification* is qualified per EN60950 under Licence No. R9571008; Underwriters Laboratories, Inc. is qualified per UL507 under File E-94403; Canadian Standards Association is qualified per C22.2#113 under File LR 43448.
- **Miscellaneous:** Intake & exhaust tubes, all cooling ducts and vents must not be obstructed. Intake and exhaust must be free of grease, oil, or foreign particles. Amp housing #350810-1 (to be supplied by customer), mates with post header assembly.

Mating harness available upon request. Refer to (page 84) for specific part numbers.

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, data is corrected to 0.075 lb./ft³ air density (29.92" Hg @ 70° F.). Actual performance will vary depending on the operating environment and application. AMETEK Rotron products are not designed for use with volatile, hazardous or corrosive gases. Blower housings are not sealed, slight air/gas leakage will occur. AMETEK Rotron 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 Rotron Marketing and Sales.