

atlantic blowers

YOU'VE TRIED THE REST
NOW EXPERIENCE
THE BEST



ATLANTIC Regenerative Blowers 60 HZ

www.atlanticblowers.com

Atlantic Regenerative Blowers are available in either single stage or double stage configurations. Single stage refers to the blower having one impeller, and double stage refers to the blower having two impellers. Atlantic Regenerative Blowers are made with the utmost quality. The impeller is directly connected to the motor shaft, therefore eliminating any need for pulleys and belts.

Advantages:

- Oil Free Air
- Low Acoustical Noise Levels (51db-81db)
- Light Weight
- Virtually Maintenance Free Operation
- Compact and efficient in electricity usage
- Trouble Free Installation (Can be mounted horizontally and vertically)
- Sealed Industrial Duty Bearings (Low maintenance)
- Direct Drive
- Rugged Industrial Duty Construction

Operational Performance:

Air Flow: 18 CFM up to 791 CFM
 Pressure: 22" H2O up to 313" H2O
 Vacuum: 21" H2O up to 236" H2O

Operational Principles:

The impeller (3) rotates inside the blower housing, pulling air in through the inlet, or vacuum side (2). The impeller then accelerates the air or gas inside the housing (4) until it is fully pressurized, and discharges it through the exhaust outlet, or pressure side (5).



The following options are also available:

"EX" (Explosion Proof) Series - featuring explosion-proof construction, heavy duty cast aluminum manifolds; spark resistant housings, covers, impellers, muffler towers, and seals; Teflon lip seals; and explosion-proof motors. (IP44, 54, 55/Class 2/Group B/Div. 1 & or Class 1 Div. 1)

"BS" (Bare Shaft) Series - featuring the same explosion-proof construction as the "EX" series with the added benefit of externally driven operation.

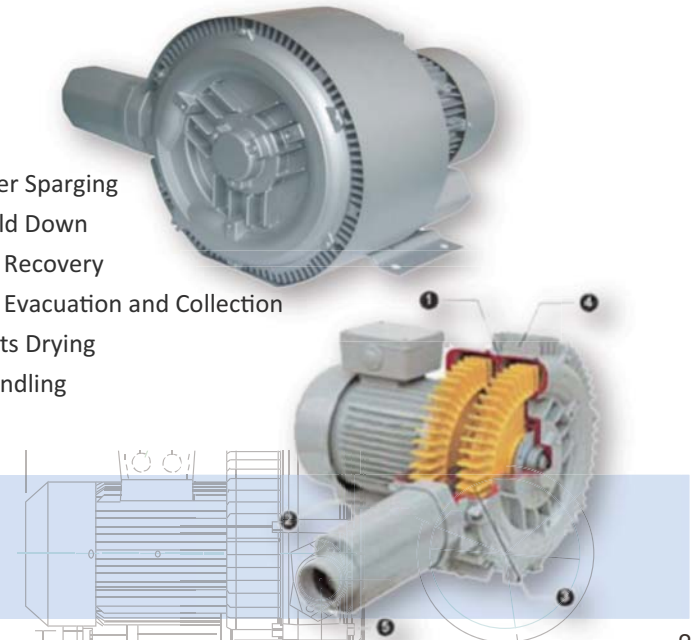
"CC" (Chemical Coated Regenerative) Series – featuring chemical duty, explosion proof motors and a coating which makes the blower resistant to chemical corrosion. Anodizing for corrosion resistance is available.

Features & Benefits

- 50/60 Hz Motors are standard offering a wide voltage range
- Blowers are made of Cast Aluminum Alloy for reduced weight, maximum strength and corrosion resistance.
- Built in Thermal Protectors for overload protection and standard
- Double Shielded Stainless Steel Sealed Bearings are standard
- High Quality Shaft Oil Seals are standard between the impeller & bearings for protection against air contamination.
- Anodizing for corrosion resistance is available
- Retrofit Bases & Flanges are available to match differing dimensional requirements
- Gasoline Driven units are available for remote locations
- Pre-assembled blower packages/kits are available for both pressure & vacuum applications
- Hermetically Sealed Blowers are available
- Tighter Tolerances between the impellers and housing increase flow and pressure efficiency

Atlantic Blowers has designed and manufactured regenerative blowers for a wide variety of applications, including:

- Wastewater Treatment Aeration
- Tank Aeration (Fish Pond Aeration)
- Air Knife Drying and Blow Off
- Soil Vapor Extraction
- Vacuum Lifting
- Gasoline Vapor Recovery
- Pneumatic Transport of Powders and Solids
- Groundwater Sparging
- Vacuum Hold Down
- Lagoon Gas Recovery
- Landfill Gas Evacuation and Collection
- General Parts Drying
- Material Handling

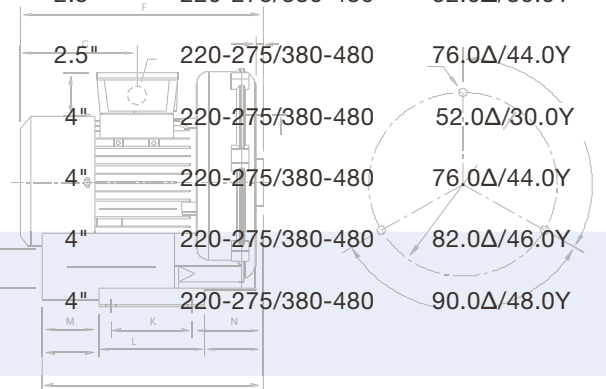
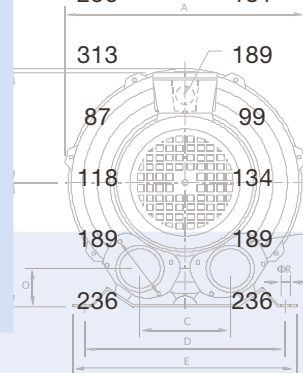


ATLANTIC Single Stage Regenerative Blowers

ATLANTIC Single Stage Regenerative Blowers							Max Pressure ("H2O)	Maximum Vacuum	Sound Level (db)	Inlet Diameter	Voltage	Current
Phase	Model Number	Curve Number	KW	HP	Weight (lbs)	Flow (CFM)						
1	AB-71	A1	0.12	0.16	12	18	22	21	51	1"	110-120/220-240	1.3/0.7
	AB-81	A2	0.18	0.25	15	25	28	28	53	1"	110-120/220-240	2.5/1.1
	AB-91	A3	0.24	0.33	15	35	44	29	55	1"	110-120/220-240	2.6/1.3
	AB-101	A4	0.4	0.50	25	64	60	52	61	1.25"	110-120/220-240	7.8/3.9
	AB-201	A5	0.75	1.00	35	110	56	56	64	1.5"	110-120/220-240	13/6.5
	AB-301	A6	1.5	2.00	57	110	80	72	70	2"	110-120/220-240	23.0/11.5
	AB-401	A7	2.2	3.00	70	155	110	79	75	2"	110-120/220-240	30.0/15.0
3	AB-70	A10	0.12	0.16	12	18	22	21	51	1"	220-275/380-480	0.9Δ/0.5Y
	AB-80	A11	0.18	0.25	15	25	28	28	53	1"	220-275/380-480	1.3Δ/0.7Y
	AB-90	A12	0.24	0.33	15	35	44	29	55	1"	220-275/380-480	1.6Δ/0.9Y
	AB-100	A13	0.5	0.67	24	64	64	60	61	1.25"	220-275/380-480	2.3Δ/1.3Y
	AB-200	A14	0.93	1.25	31	110	60	60	64	1.5"	220-275/380-480	3.9Δ/2.3Y
	AB-300	A15	1.5	2.00	49	155	79	68	70	2"	220-275/380-480	6.0Δ/3.5Y
	AB-400	A16	2.55	3.50	51	155	118	105	70	2"	220-275/380-480	7.0Δ/4.0Y
	AB-500	A17	2.55	3.50	68	230	88	88	70	2"	220-275/380-480	10.7Δ/6.2Y
	AB-600	A18	3.7	5.00	75	230	118	112	72	2"	220-275/380-480	13.5Δ/7.8Y
	AB-700	A19	4.6	6.00	82	230	134	133	72	2"	220-275/380-480	16.2Δ/9.3Y
	AB-800	A20	6.3	8.50	170	399	130	125	79	2.5"	220-275/380-480	24.0Δ/12.0Y
	AB-850	A21	7.5	10.00	185	464	134	129	80	2.5"	220-275/380-480	26.0Δ/13.0Y
	AB-900	A22	8.6	11.50	194	399	177	141	80	2.5"	220-275/380-480	29.0Δ/14.3Y
	AB-1000	A23	11	15.00	366	399	248	158	80	2.5"	220-275/380-480	37.0Δ/21.3Y
	AB-1100	A24	11	15.00	220	791	68	72	81	4"	220-275/380-480	37.0Δ/21.4Y
	AB-1200	A25	15.3	20.00	247	791	108	114	81	4"	220-275/380-480	51.5Δ/29.8Y
	AB-1300	A26	22.7	30.00	351	791	169	150	81	4"	220-275/380-480	76.0Δ/44.0Y

ATLANTIC Double Stage Regenerative Blowers

Phase	Model Number	Curve Number	KW	HP	Weight (lbs)	Flow (CFM)	Max Pressure ("H2O)	Maximum Vacuum	Sound Level (db)	Inlet Diameter	Voltage	Current
1	AB-102/1	A100	0.4	0.50	37	58	59	40	68	1.25"	110-120/220-240	7.8/3.9
	AB-202/1	A101	0.75	1.00	37	64	101	101	68	1.25"	110-120/220-240	13.0/6.5
	AB-302/1	A102	1.1	1.50	63	113	118	110	68	1.5"	110-120/220-240	19.0/10.0
	AB-402/1	A103	2.2	3.00	63	113	138	110	69	1.5"	110-120/220-240	23.0/11.4
3	AB-102	A110	0.5	0.67	34	61	59	40	68	1.25"	220-275/380-480	2.3Δ/1.3Y
	AB-202	A111	0.85	1.20	37	64	101	101	68	1.25"	220-275/380-480	3.9Δ/2.3Y
	AB-302	A112	1.5	2.00	55	61	118	87	68	1.5"	220-275/380-480	7.0Δ/4.0Y
	AB-402	A113	2.55	3.50	62	113	158	129	69	1.5"	220-275/380-480	9.5Δ/5.5Y
	AB-502	A114	2.55	3.50	62	145	169	141	69	2"	220-275/380-480	9.5Δ/5.5Y
	AB-602	A115	3.7	5.00	88	155	166	161	74	2"	220-275/380-480	13.5Δ/7.8Y
	AB-702	A116	4.6	6.00	95	155	201	169	74	2"	220-275/380-480	16.2Δ/9.3Y
	AB-802	A117	4.6	6.00	121	230	141	150	79	2"	220-275/380-480	16.2Δ/9.3Y
	AB-902	A118	6.3	8.50	159	230	201	177	79	2"	220-275/380-480	24.0Δ/12.0Y
	AB-1002	A119	8.6	11.50	181	230	271	185	79	2"	220-275/380-480	29.0Δ/14.3Y
	AB-1102	A120	12.6	16.90	313	399	256	181	81	2.5"	220-275/380-480	52.0Δ/30.0Y
	AB-1202	A121	17.3	23.20	353	399	313	189	81	2.5"	220-275/380-480	76.0Δ/44.0Y
	AB-1302	A122	15.5	20.00	309	776	87	99	81	4"	220-275/380-480	52.0Δ/30.0Y
	AB-1402	A123	18.5	25.00	353	776	118	134	81	4"	220-275/380-480	76.0Δ/44.0Y
	AB-1502	A124	26.8	35.00	400	776	189	189	81	4"	220-275/380-480	82.0Δ/46.0Y
	AB-1602	A125	37	50.00	425	776	236	236	81	4"	220-275/380-480	90.0Δ/48.0Y



Pressure Performance Curve (1 Phase)

1 Phase

MBAR " H2O

Pressure Performance Curves

60 Hz

PSIG

1000
900
800
700
600
500
400
300
200
100
0

394
354
300
250
200
180
160
140
120
110
100
90
80
70
60
50
40
30
20
10
0

14.2
12.8
10.8
9.01
7.21
6.49
5.77
5.05
4.33
3.97
3.6
3.24
2.88
2.55
2.16
1.8
1.4
1.08
0.73
0.36
0

PRESSURE

0

0

CFM

10

10

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20

20

0

30

30

0

40

40

0

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50

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60

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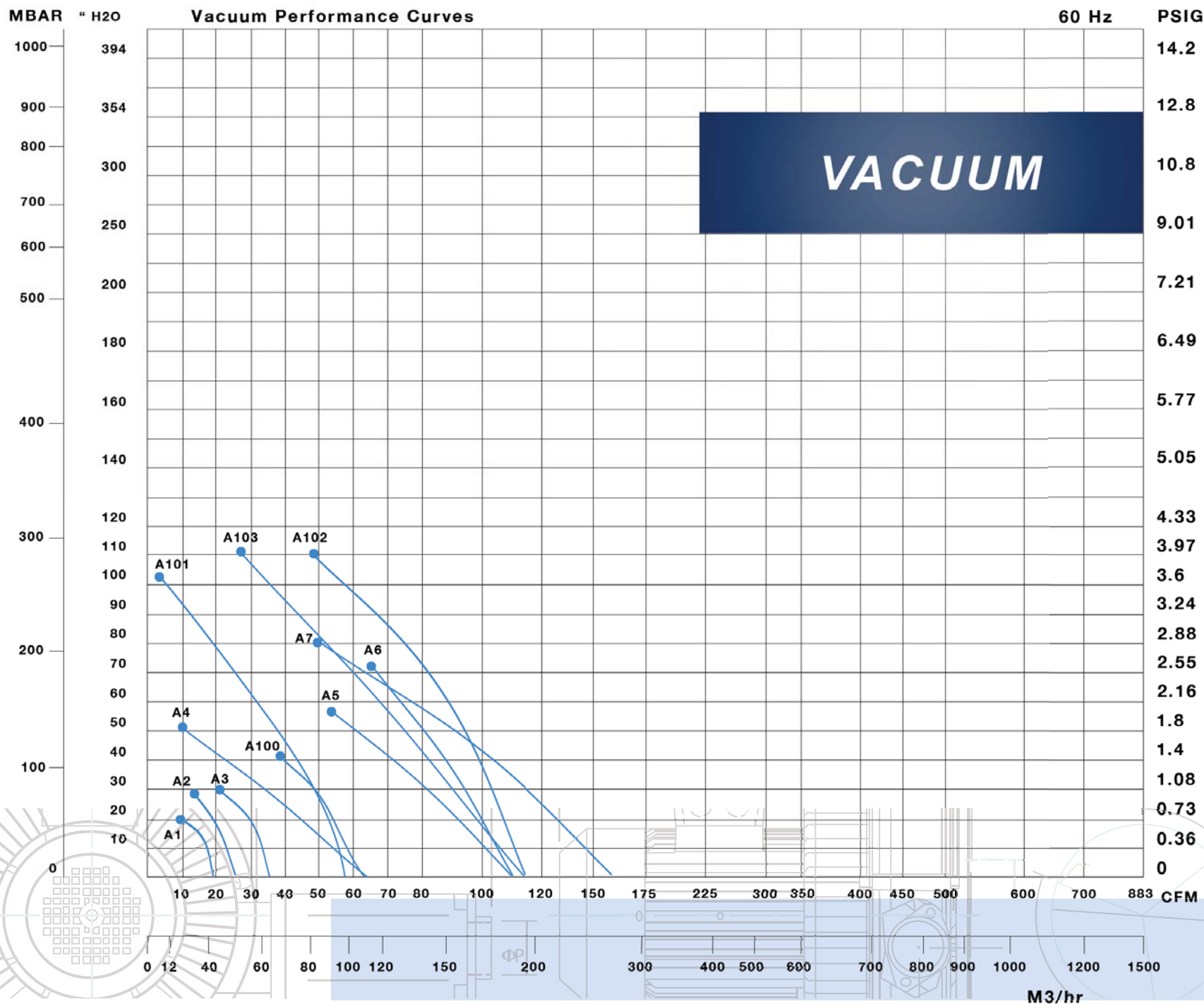
1500

0

M3/hr

Vacuum Performance Curve (1 Phase)

1 Phase



Pressure Performance Curve (3 Phase)

3 Phase

MBAR " H2O

Pressure Performance Curves

60 Hz

PSIG

1000
900
800
700
600
500
400
300
200
100

394
354
300
250
200
180
160
140
120
110
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40
30
20
10

14.2
12.8
10.8
9.01
7.21
6.49
5.77
5.05
4.33
3.97
3.6
3.24
2.88
2.55
2.16
1.8
1.4
1.08
0.73
0.36
0

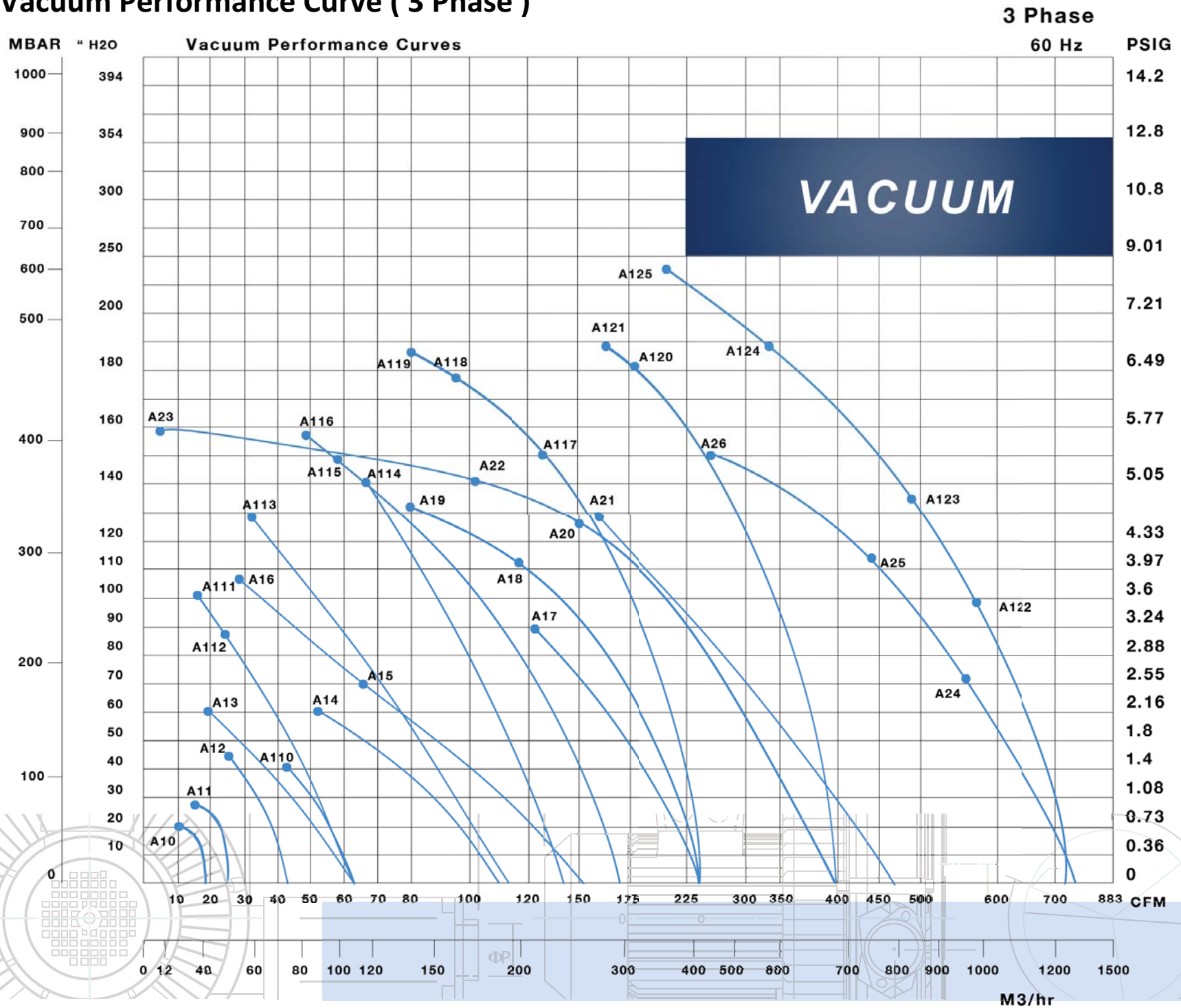
PRESSURE

0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300 310 320 330 340 350 360 370 380 390 400 410 420 430 440 450 460 470 480 490 500 510 520 530 540 550 560 570 580 590 600 610 620 630 640 650 660 670 680 690 700 710 720 730 740 750 760 770 780 790 800 810 820 830 840 850 860 870 880 890 900 910 920 930 940 950 960 970 980 990 1000 1010 1020 1030 1040 1050 1060 1070 1080 1090 1100 1110 1120 1130 1140 1150 1160 1170 1180 1190 1200 1210 1220 1230 1240 1250 1260 1270 1280 1290 1300 1310 1320 1330 1340 1350 1360 1370 1380 1390 1400 1410 1420 1430 1440 1450 1460 1470 1480 1490 1500

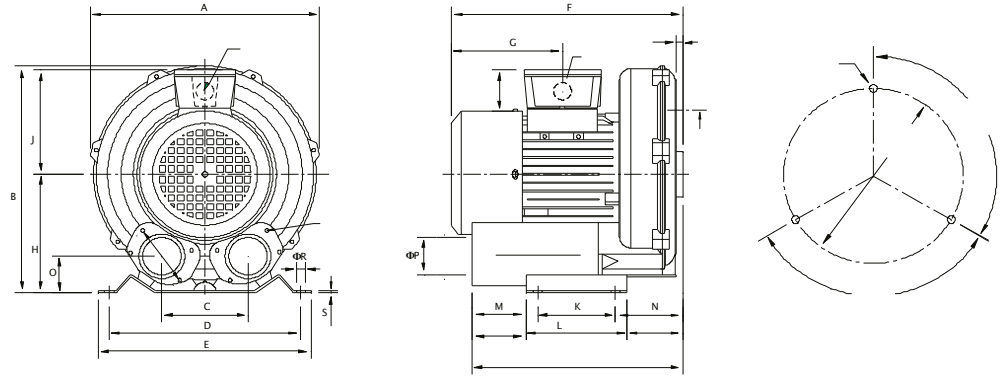
M3/hr

CFM

Vacuum Performance Curve (3 Phase)



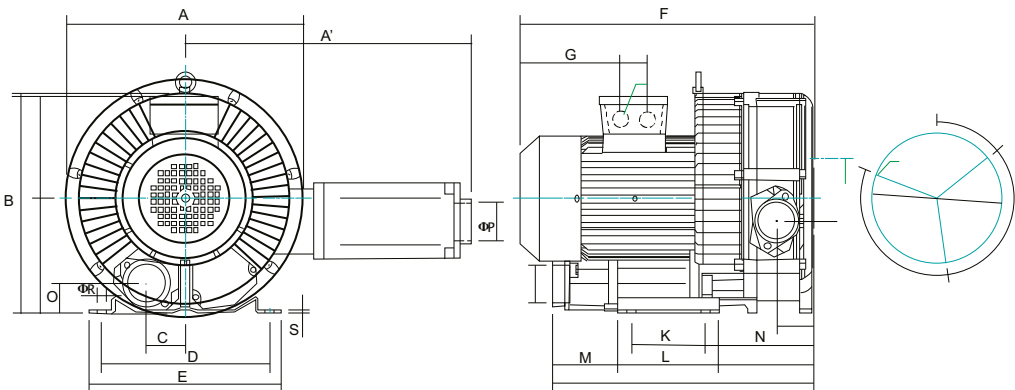
Single Stage



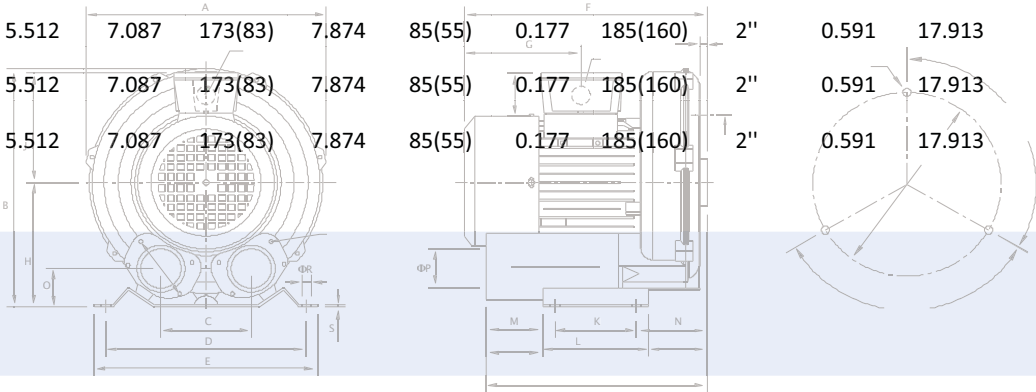
Model No.	A	B	C	D	E	F	G	H	K	L	M	N	O	S	J	ΦP	ΦR
AB-71	7.874	8.386	2.835	6.496	7.205	7.874	3.740	4.409	3.150	3.937	1.929	1.969	1.457	0.098	3.898	1"	0.472
AB-81	7.874	8.386	2.835	6.496	7.205	7.874	3.740	4.409	3.150	3.937	1.929	1.969	1.457	0.098	3.898	1"	0.472
AB-91	7.874	8.386	2.835	6.496	7.205	7.874	3.740	4.409	3.150	3.937	1.929	1.969	1.457	0.098	3.898	1"	0.472
AB-70	7.874	8.386	2.835	6.496	7.205	7.874	3.740	4.409	3.150	3.937	1.929	1.969	1.457	0.098	3.898	1"	0.472
AB-80	7.874	8.386	2.835	6.496	7.205	7.874	3.740	4.409	3.150	3.937	1.929	1.969	1.457	0.098	3.898	1"	0.472
AB-90	7.874	8.386	2.835	6.496	7.205	7.874	3.740	4.409	3.150	3.937	1.929	1.969	1.457	0.098	3.898	1"	0.472
AB-100	9.764	9.646	3.543	8.071	9.055	9.764	3.937	5.039	3.268	4.252	2.795	2.835	1.575	0.098	4.409	1 1/4"	0.394
AB-101	9.764	9.646	3.543	8.071	9.055	9.764	3.937	5.039	3.268	4.252	2.795	2.835	1.575	0.098	4.409	1 1/4"	0.394
AB-200	11.220	11.890	4.528	8.858	10.039	10.236	4.173	6.063	3.740	5.118	2.638	3.071	1.772	0.118	4.882	1 1/2"	0.472
AB-201	11.220	11.890	4.528	8.858	10.039	10.236	4.173	6.063	3.740	5.118	2.638	3.071	1.772	0.118	4.882	1 1/2"	0.472
AB-300	13.110	13.307	4.724	10.236	11.654	12.402	5.118	6.772	4.528	6.102	3.780	3.425	1.890	0.157	5.236	2"	0.551
AB-301	13.110	13.307	4.724	10.236	11.654	12.402	5.118	6.772	4.528	6.102	3.780	3.425	1.890	0.157	5.236	2"	0.551
AB-400	13.110	13.307	4.724	10.236	11.654	12.402	5.118	6.772	4.528	6.102	3.780	3.425	1.890	0.157	5.236	2"	0.551
AB-401	13.110	13.307	4.724	10.236	11.654	12.402	5.118	6.772	4.528	6.102	3.780	3.425	1.890	0.157	5.236	2"	0.551
AB-500	15	15.039	4.921	11.417	12.992	14.449	7.874	8.071	5.512	7.087	3.268	4.331	2.165	0.157	6.299	2"	0.591
AB-600	15	15.039	4.921	11.417	12.992	14.449	7.874	8.071	5.512	7.087	3.268	4.331	2.165	0.157	6.299	2"	0.591
AB-700	15	15.039	4.921	11.417	12.992	14.449	7.874	8.071	5.512	7.087	3.268	4.331	2.165	0.157	6.299	2"	0.591
AB-800	18.110	19.488	6.102	14.370	16.732	17.126	10.512	10.827	11.024	12.520	6.102	0.787	3.583	1.220	7.283	2 1/2"	0.630
AB-850	18.110	19.488	6.102	14.370	16.732	17.126	10.512	10.827	11.024	12.520	6.102	0.787	3.583	1.220	7.283	2 1/2"	0.630
AB-900	18.110	19.488	6.102	14.370	16.732	17.126	10.512	10.827	11.024	12.520	6.102	0.787	3.583	1.220	7.283	2 1/2"	0.630
AB-1000	18.110	19.488	6.102	14.370	16.732	17.126	10.512	10.827	11.024	12.520	6.102	0.787	3.583	1.220	7.283	2 1/2"	0.630
AB-1100	21.929	22.677	8.268	14.173	16.220	24.409	13.500	12.008	23.622	26.457	10.500	3.740	3.740	1.102	8.307	4"	0.630
AB-1200	21.929	22.677	8.268	14.173	16.220	24.409	13.500	12.008	23.622	26.457	N/A	3.740	3.740	1.102	8.307	4"	0.630
AB-1300	21.929	22.677	8.268	14.173	16.220	24.409	13.500	12.008	23.622	26.457	N/A	3.740	3.740	1.102	8.307	4"	0.630

All units are in inches

Double Stage

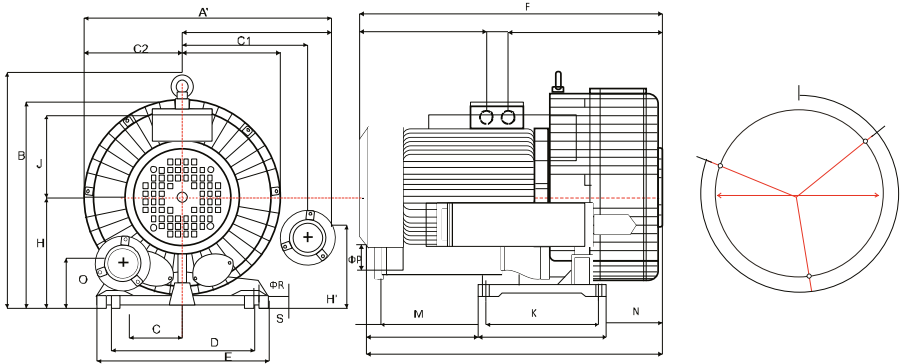


Model No.	A	B	C	D	E	F	G	H	K	L	M	N	O	S	J	ΦP	ΦR	A'
AB-102	11.181	10.709	1.772	8.071	9.055	12.205	3.937	4.173	3.268	4.252	2.283	5.374	1.575	0.098	4.409	1 1/4"	0.472	12.205
AB-102/1	11.181	10.709	1.772	8.071	9.055	12.205	3.937	4.173	3.268	4.252	2.283	5.374	1.575	0.098	4.409	1 1/4"	0.472	12.205
AB-202	11.181	10.709	1.772	8.071	9.055	12.205	3.937	4.173	3.268	4.252	2.283	5.374	1.575	0.098	4.409	1 1/4"	0.472	12.205
AB-202/1	11.181	10.709	1.772	8.071	9.055	12.205	3.937	4.173	3.268	4.252	2.283	5.374	1.575	0.098	4.409	1 1/4"	0.472	12.205
AB-302	12.638	12.402	2.264	8.858	10.039	15.315	5.236	6.063	3.740	5.118	2.126	5.984	1.772	0.118	5.236	1 1/2"	0.472	12.402
AB-302/1	12.638	12.402	2.264	8.858	10.039	15.315	5.236	6.063	3.740	5.118	2.126	5.984	1.772	0.118	5.236	1 1/2"	0.472	12.402
AB-402	12.638	12.402	2.264	8.858	10.039	15.315	5.236	6.063	3.740	5.118	2.126	5.984	1.772	0.118	5.236	1 1/2"	0.472	12.402
AB-402/1	12.638	12.402	2.264	8.858	10.039	15.315	5.236	6.063	3.740	5.118	2.126	5.984	1.772	0.118	5.236	1 1/2"	0.472	12.402
AB-502	14.331	13.307	2.402	10.236	11.654	17.874	4.921	6.929	4.528	6.102	4.055	6.614	1.890	0.157	6.142	2"	0.551	17.421
AB-602	14.331	13.307	2.402	10.236	11.654	17.874	4.921	6.929	4.528	6.102	4.055	6.614	1.890	0.157	6.142	2"	0.551	17.421
AB-702	14.331	13.307	2.402	10.236	11.654	17.874	4.921	6.929	4.528	6.102	4.055	6.614	1.890	0.157	6.142	2"	0.551	17.421
AB-802	16.772	16.535	4.488	11.417	12.992	562(465)	4.961	7.795	5.512	7.087	173(83)	7.874	85(55)	0.177	185(160)	2"	0.591	17.913
AB-902	16.772	16.535	4.488	11.417	12.992	562(465)	4.961	7.795	5.512	7.087	173(83)	7.874	85(55)	0.177	185(160)	2"	0.591	17.913
AB-1002	16.772	16.535	4.488	11.417	12.992	562(465)	4.961	7.795	5.512	7.087	173(83)	7.874	85(55)	0.177	185(160)	2"	0.591	17.913



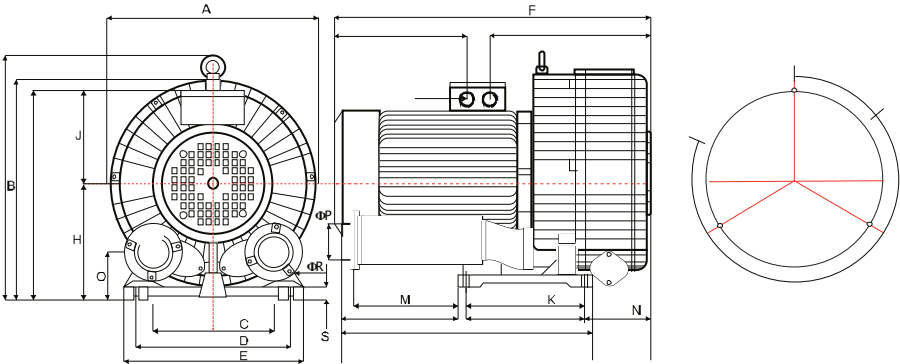
All units are in inches

Double Stage



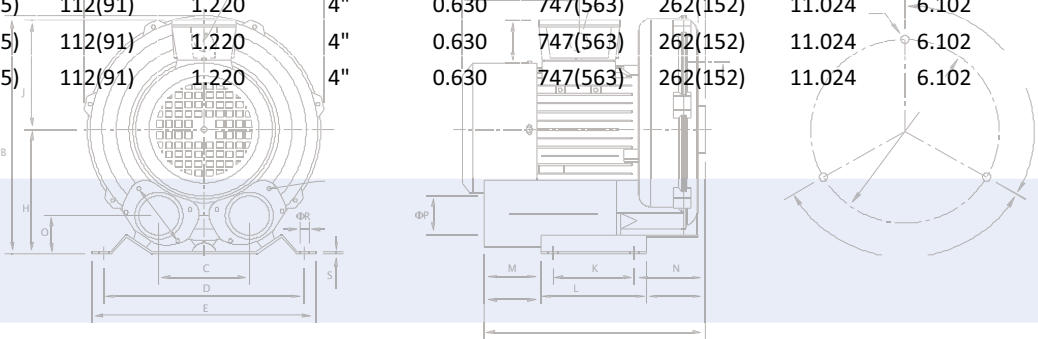
Model No.	A'	C1	C2	B	J	H	C	D	O	S	H'	ΦP	ΦR	F	M	K	N
AB-1102	24.213	12.087	9.567	19.803	211(185)	10.827	144(77.5)	14.370	112(91)	1.220	7.480	2 1/2"	0.630	747(563)	262(152)	11.024	6.102
AB-1202	24.213	12.087	9.567	19.803	211(185)	10.827	144(77.5)	14.370	112(91)	1.220	7.480	2 1/2"	0.630	747(563)	262(152)	11.024	6.102

Double Stage



Model No. (9)	A	B	C	D	E	H	J	O	S	ΦP	ΦR	F	M	K	N
AB-1302	19.055	19.803	288(77.5)	14.370	16.732	10.827	211(185)	112(91)	1.220	4"	0.630	747(563)	262(152)	11.024	6.102
AB-1402	19.055	19.803	288(77.5)	14.370	16.732	10.827	211(185)	112(91)	1.220	4"	0.630	747(563)	262(152)	11.024	6.102
AB-1502	19.055	19.803	288(77.5)	14.370	16.732	10.827	211(185)	112(91)	1.220	4"	0.630	747(563)	262(152)	11.024	6.102
AB-1602	19.055	19.803	288(77.5)	14.370	16.732	10.827	211(185)	112(91)	1.220	4"	0.630	747(563)	262(152)	11.024	6.102

All units are in inches





Relief Valve: (Highly Recommended) The purpose of the Relief Valve is to release the excess pressure build up, better known as "back-pressure." It is the back pressure that will cause the blower motor to overheat, and either burn out, or significantly reduce the life of the motor.

Check Valve: (Highly Recommended) A check valve is a vital item, installed in support of automatic shutdown valves and safety devices. Its purpose is to prevent and protect against the consequences of unintended reverse flow (either a pressure or vacuum application). The Check Valve provides high integrity first-line defense in the event of unwanted reverse flow and operates in advance of, or in conjunction with safety devices. It is immediately responsive and fast acting in its closure, thereby maximizing protection to prevent or minimize the adverse effect of any back-flow.



Pressure / Vacuum Filter Canisters: (Highly Recommended) The pressure and vacuum filter canisters keep clean, dry air going into your blower. It also keeps any air particles, water vapor, oil based contaminants, and other liquids from entering the blower which can cause damage to the blower and impeller. This can also be harmful to the motor and may cause overheating.

Enclosed Motor Starter: (Highly Recommended) NEMA 4X, prewired START/STOP 3 wire control with through-the-cover overload RESET. Single phase or 3 phase models available. It includes an adjustable trip current and selectable manual or automatic reset. This is basically an on/off switch for your blower.





Variable Frequency Drives: (Highly Recommended) A variable-frequency drive (VFD) is a system for controlling the rotational speed of an alternating current (AC) electric motor by controlling the frequency of the electrical power supplied to the motor.

External Silencer: (Optional) Their purpose is to reduce the decibels (DB's) or noise reduction generated by incoming/exhaust air. The Silencer can reduce noise by up to 30 decibels, depending on your application, and are great for indoor or outdoor noise reduction.



Pressure Gauge: (Optional) Pressure gauges are among the most used instruments in a customer's application. They easily show the pressure or vacuum in the line so you know that your system is at optimum performance. The gauge indicates the pressure (or pressure drop) in the process.

Filter Monitor Gauge: (Optional) This gauge shows the amount of filter element restriction, and indicates when you need to change your filter to maximize the performance of your equipment, without ever having to take remove the filter canister.



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THE BEST



ABOUT US

At Atlantic Blowers, we strive to lead in the invention, development and manufacture of the industry's most advanced air-moving products – Regenerative Blowers, Centrifugal Blowers, and Air Knife Drying Systems to meet the many challenging applications of OEMs and end-users worldwide. The company is a technology leader that strives to provide quality engineered products for our customers. Each Blower is made with the utmost quality. Atlantic Blowers reputation for integrity is a fundamental part of our heritage and one of our most valuable assets. Our customers and their needs are our top priority. Offering the latest technology and innovation, Atlantic Blowers achieve extreme levels of pressure, flow and vacuum. Our blowers are built to last, have low acoustical noise levels, compact designs, lightweight and are oil-free.

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