

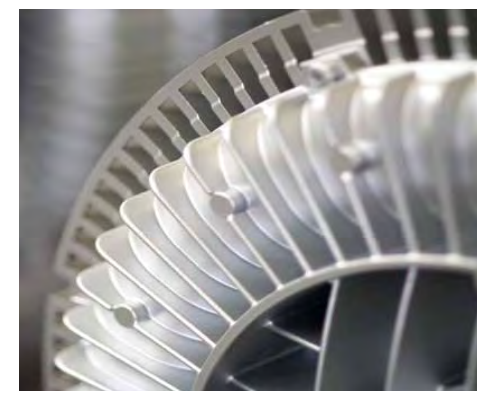
PLUS
manufacturing

Side Channel Blower





Company Information



Plus Manufacturing Co.,Ltd, the leading manufacturers of side channel blowers in china. Established in 2002, and located in Dongguan which is called “the world’s factory”.

With over 10 years of experience and top qualified personnel, we are forward-looking and strive to improve our products and ourselves. We are constantly at work developing innovative technologies that will define the vacuum world of the future.

Our manufacturing plants utilize the most modern manufacturing techniques, machinery and equipment under very strict quality controls, which surpass ISO 9001 requirements.

As of 2012, Plus employs 200 people and features the largest selection of side channel blowers for the industrial applications in the world. Due to its immense line of blowers, expertise and experience in the building of vacuum systems and the extensive service network, Plus is capable of providing ideal comprehensive solutions.

Our goal always is to provide the customer with the highest possible return on investment. Personal consulting, choice of the optimum product and prompt service on site are key features of our comprehensive service that make the achievement of this goal reality. Our experience and know how in diversified applications and product design furnish the basis.

Our Values: Control quality strictly, Serve clients whole-heartedly.

Our Promise: Quick Response, Professional Service, Fast Delivery.

Milestones: 2002, Plus was created in a town of Dongguan City.

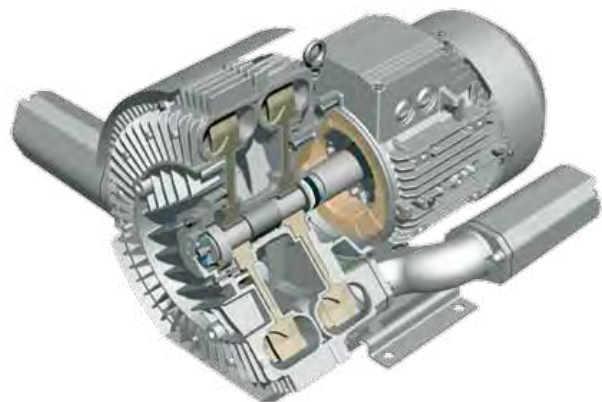
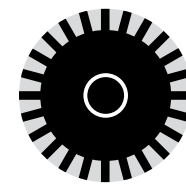
2004, Plus built R&D team in 20 persons.

2005, Plus worked out the first 3-stage blower.

2007, Plus had big power range came into the market.

2010, Plus expanded the production scale again into 53 machines totally.

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PM series side channel blower



PM1 series
Single stage version



PM1 series
Two stage version



PM7 series
Single stage version



PM7
Multi-stage version

Applications

- Pneumatic conveying systems
- Lifting and holding of parts by vacuum
- Packing machines
- Aeration of sewage-treatment plants
- Filling of bags/bottles/hoppers
- Soil remediation
- Thermoforming
- Sorting/enveloping of letters
- Food-processing
- Laser printers
- Dental suction equipments
- Paper processing
- Printers/copiers
- Textile machines
- Aeration of fish ponds
- Gas analysis
- Wsimming pool equipment/whirlpools

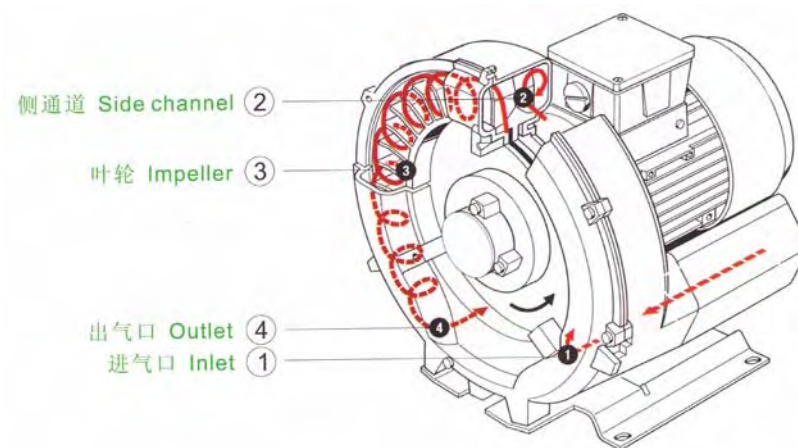
Ex stock for use world-wide

The side channel blower feature voltage range motors for 50Hz and 60Hz in protection class IP55 (insulation class F) are UL, CE, RoHS approved. This makes them the ideal solution for world wide use. They can be used without any modifications or tests in Europe, America, and Asia. They are mostly available ex stock. They are available for your requirements anytime.

operating principle

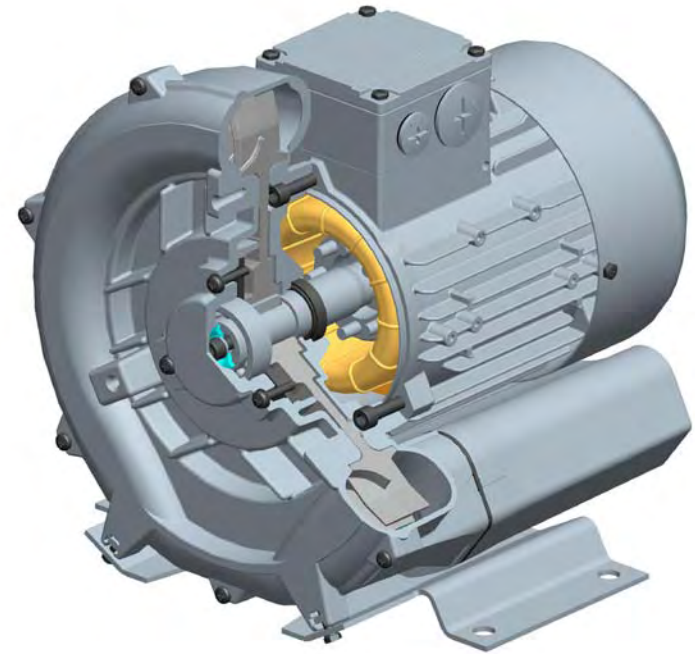
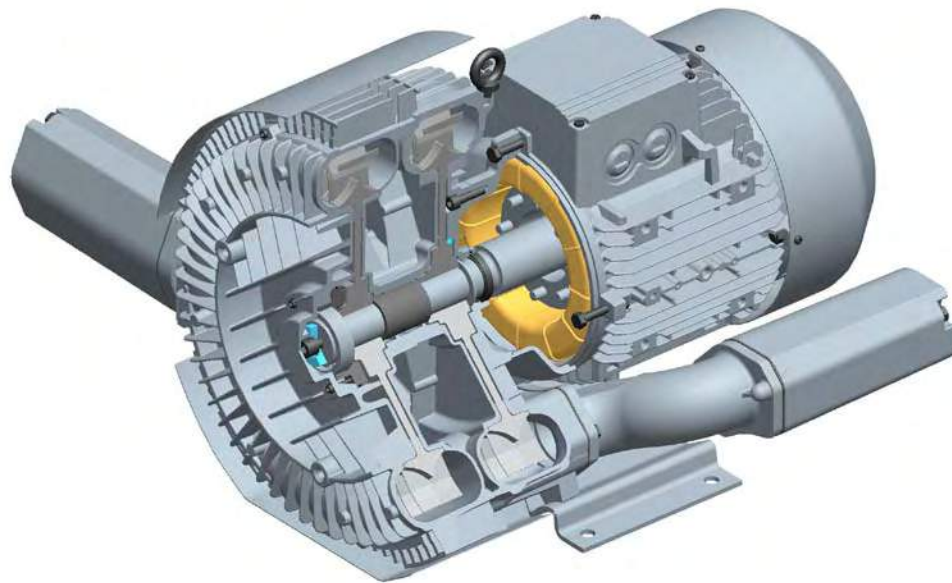
The impellers in the machines are mounted directly on the motor shaft for noncontact compression entirely without friction. The maximum operational reliability, even at high differential pressures, is ensured by the arrangement of the bearings outside the compression chamber.

The gas is taken in through the **inlet 1**. As it enters the **side channel 2**, the rotating **impeller 3** imparts velocity to the gas in the direction of rotation. Centrifugal force in the impeller blades accelerates the gas outward and the pressure increases. Every rotation adds kinetic energy, resulting in the further increase of the pressure along the side channel. The side channel narrows at the rotor, sweeping the gas off the impeller blades and discharging it through the **outlet 4** where it exits the side channel blower.



PM1 series

Single and double stage



CLASSICS WITH INNOVATIVE TECHNOLOGY

With their high inlet volume flow up to 2,500m³/h and a differential pressure up to 780mbar, our low noise PM1 series has earned their reputation and convinced thousands of customers all over the world.

They are reliable, low-maintenance and durable and are the first choice for many applications in mechanical engineering.

When used with a frequency converter the performance of PM1 series side channel blower can be increased considerably.

The PM1 series side channel blowers are UL/CCC/CE approved and can be used without further testing all over the world.

Selection diagrams and tables for PM1 series
vacuum and pressure mode, 50Hz and 60Hz Pages 05-24

Details on voltages, footnotes etc see. Pages 55

PM1 Series 1ph AC motor

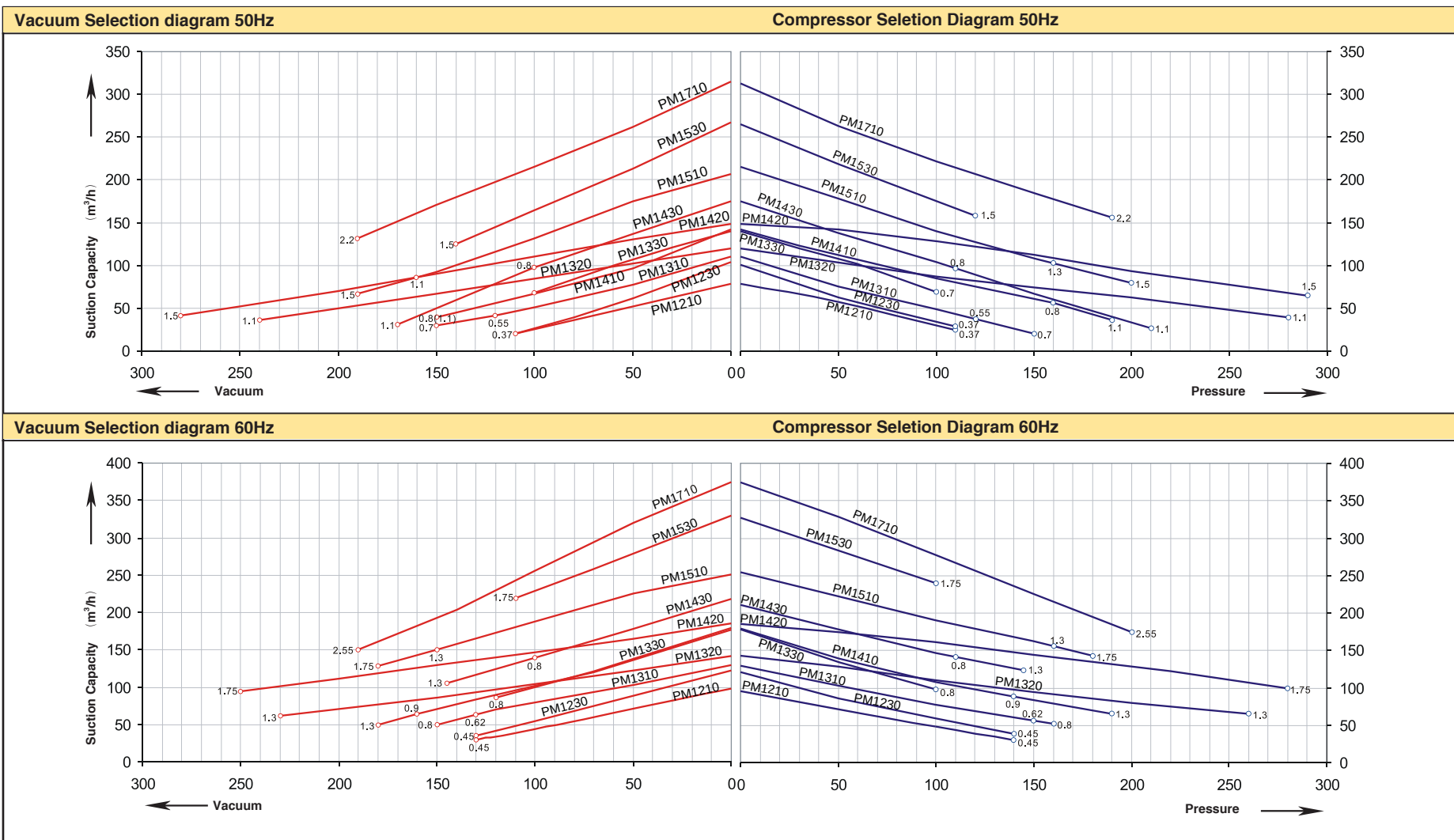
Selection and ordering data for side channel blowers in vacuum and pressure operation.single-phase current

Order No.	MOTOR				Weight	Sound-	Maximum airflow	Maximum vacuum	Maximum pressure	Vacuum relief
• available ex stock	Fre- quency	rated			approx.	pressure				valve
		output	voltage	current						Items X type
	HZ	KW	V	A	kg	dB(A)	m³/h	mbar	mbar	
• PM1210/P370-1	50	0.37	230	2.7	11	53	80	-110	110	1×2B×2110/...2141
	60	0.45	230	3.0		56	96	-130	140	1×2B×2114/...2142
• PM1230/P370-1	50	0.37	230	2.7	11	54	100	-110	110	1×2B×2110/...2141
	60	0.45	230	3.0		57	120	-130	140	1×2B×2114/...2142
• PM1310/P550-1	50	0.55	230	3.7	13	55	100	-120	120	1×2B×2114/...2142
	60	0.62	230	4.5		57	120	-130	150	1×2B×2114/...2142
• PM1310/P700-1	50	0.7	230	4.8	14	55	100	-150	150	1×2B×2114/...2142
	60	0.8	230	4.1		57	120	-150	160	1×2B×2114/...2142
• PM1320/P1100-1	50	1.1	230	7.3	17	58	120	-240	280	1×2B×2110/...2141
	60	1.3	230	8.3		60	145	-230	260	1×2B×2114/...2142
• PM1330/P700-1	50	0.7	230	4.8	14	56	145	-100	100	1×2B×2110/...2141
	60	0.8	230	4.1		58	165	-110	100	1×2B×2114/...2142
• PM1410/P800-1	50	0.8	230	5.2	15	63	145	-150	160	1×2B×2110/...2141
	60	0.9	230	5.8		64	175	-160	140	1×2B×2114/...2142
• PM1410/P1100-1	50	1.1	230	7.3	16	63	145	-150	190	1×2B×2110/...2141
	60	1.3	230	8.3		64	175	-180	190	1×2B×2114/...2142
• PM1420/P1500-1	50	1.5	230	9	26	66	150	-280	290	1×2B×2110/...2141
	60	1.75	230	10		69	180	-250	280	1×2B×2114/...2142
• PM1430/P800-1	50	0.8	230	5.2	16	64	180	-100	110	1×2B×2110/...2141
	60	0.9	230	5.8		66	210	-100	110	1×2B×2110/...2141
• PM1430/P1100-1	50	1.1	230	7.3	17	64	180	-170	210	1×2B×2110/...2141
	60	1.3	230	8.3		66	210	-145	145	1×2B×2114/...2142
• PM1510/P1100-1	50	1.1	230	7.3	21	64	210	-160	160	1×2B×2110/...2145
	60	1.3	230	8.3		70	255	-150	160	1×2B×2110/...2146
• PM1510/P1500-1	50	1.5	230	9	24	64	210	-190	200	1×2B×2110/...2145
	60	1.75	230	10		70	255	-180	180	1×2B×2110/...2146
• PM1530/P1500-1	50	1.5	230	9	26	65	270	-140	120	1×2B×2110/...2145
	60	1.75	230	10		71	330	-110	100	1×2B×2110/...2146
• PM1710/P2200-1	50	2.2	230	12.8	30	72	318	-190	190	1×2B×2110/...2141
	60	2.55	230	12.8		74	376	-190	200	1×2B×2114/...2146

PM1 Series Selection diagram 50/60Hz 1AC motor



The performance curves are valid for pumping air at 15°C at the inlet flanges with an air pressure of 1.013mbar and a tolerance of $\pm 10\%$. The total pressure differences are valid up to an intake and ambient temperature of 25°C.



PM1-2 Series 3ph AC motor

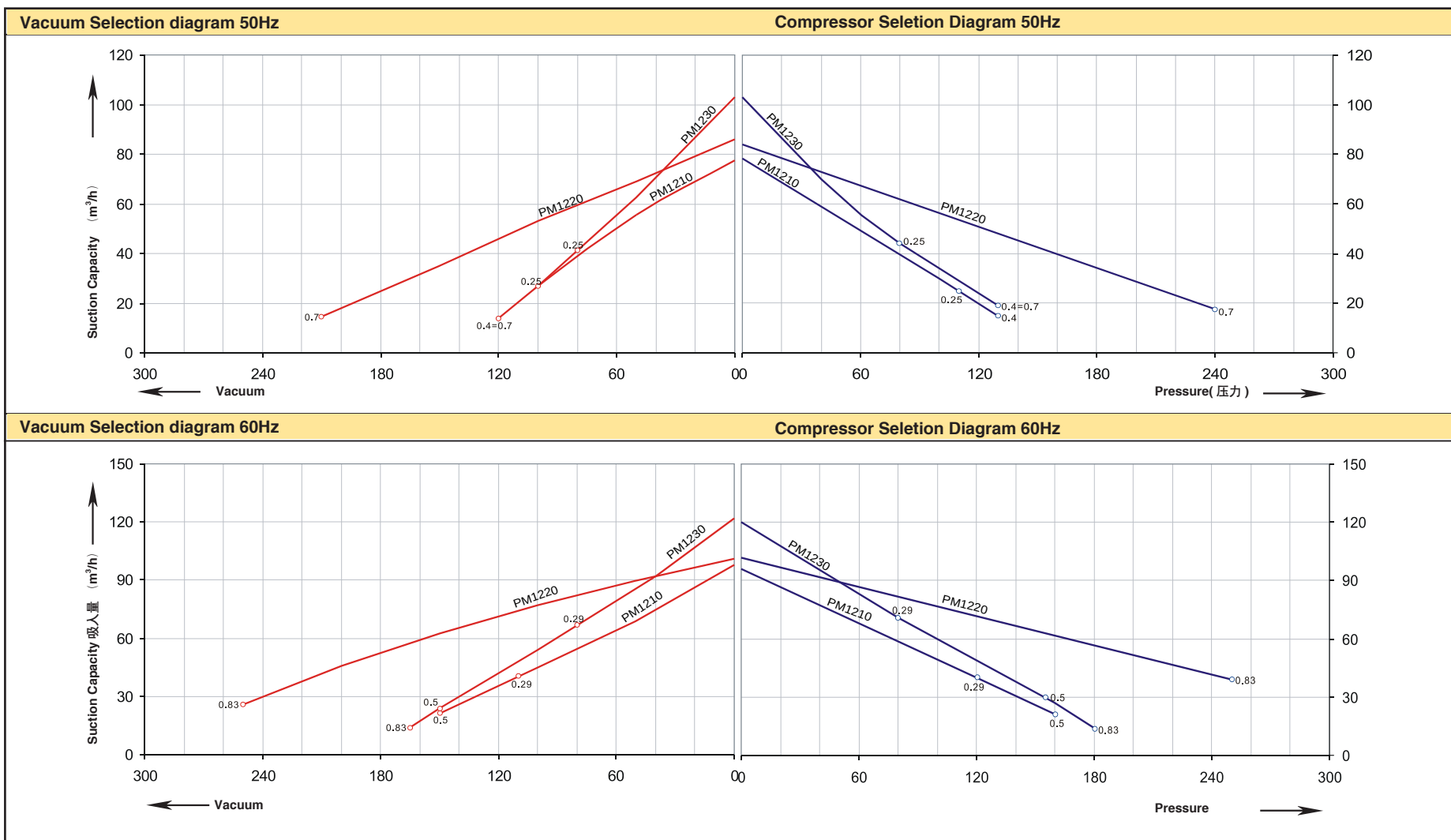
Selection and ordering data for side channel blowers in vacuum and pressure operation.

Order No.	MOTOR				Weight	Sound-	Maximum airflow	Maximum vacuum	Maximum pressure	Vacuum relief
• available ex stock	Fre- quency	rated			approx.	pressure				valve
		output	voltage	current						Items× type
	HZ	KW	V	A	kg	dB(A)	m³/h	mbar	mbar	
• PM1210/P250	50	0.25	200-240 △ /345-415	2.1 △ /1.2Y	9	53	80	-100	110	1×...2110/...2141
	60	0.29	220-275 △ /380-480	2.0 △ /1.15Y		56	98	-110	120	1×...2114/...2142
• PM1210/P400	50	0.4	200-240 △ /345-415	2.6 △ /1.5Y	10	53	80	-120	130	1×...2110/...2141
	60	0.5	220-275 △ /380-480	2.6 △ /1.5Y		56	98	-150	160	1×...2114/...2142
• PM1220/P700	50	0.7	200-240 △ /345-415	3.8 △ /2.2Y	15	55	85	-210	240	1×...2110/...2141
	60	0.83	220-275 △ /380-480	3.75 △ /2.15Y		61	102	-250	250	1×...2114/...2142
• PM1230/P250	50	0.25	200-240 △ /345-415	2.1 △ /1.2Y	10	54	105	-80	80	1×...2110/...2141
	60	0.29	220-275 △ /380-480	1.7 △ /1.0Y		57	120	-80	80	1×...2114/...2142
• PM1230/P400	50	0.4	200-240 △ /345-415	2.6 △ /1.5Y	11	54	105	-120	130	1×...2110/...2141
	60	0.5	220-275 △ /380-480	2.6 △ /1.5Y		57	120	-150	155	1×...2114/...2142
• PM1230/P700	50	0.7	200-240 △ /345-415	3.8 △ /2.2Y	12	54	105	-120	130	1×2B×2110/...2141
	60	0.83	220-275 △ /380-480	3.8 △ /2.2Y		57	120	-165	180	2×2B×2114/...2142

PM1-2 Series Selection diagram 50/60Hz 3AC



The performance curves are valid for pumping air at 15°C at the inlet flanges with an air pressure of 1.013mbar and a tolerance of $\pm 10\%$. The total pressure differences are valid up to an intake and ambient temperature of 25°C.



PM1-3 Series 3ph AC motor

Selection and ordering data for side channel blowers in vacuum and pressure operation.

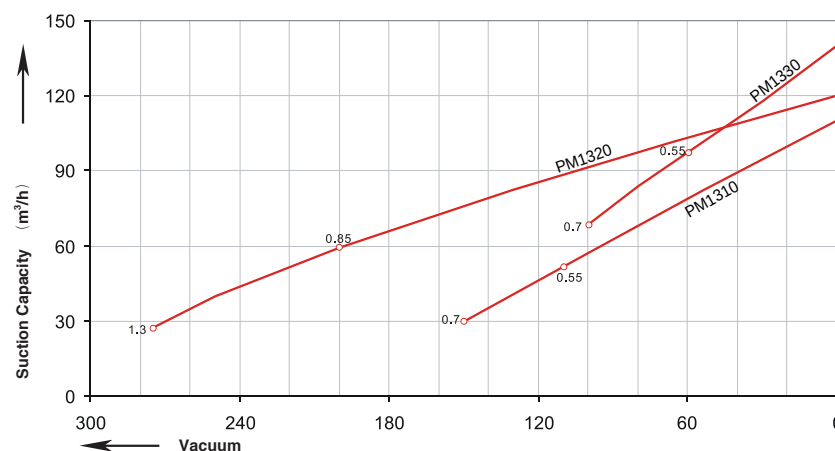
Order No.	MOTOR				Weight	Sound-	Maximum airflow	Maximum vacuum	Maximum pressure	Vacuum relief
• available ex stock	Fre- quency	rated			approx.	pressure				valve
		output	voltage	current						Items× type
	HZ	KW	V	A	kg	dB(A)	m ³ /h	mbar	mbar	
• PM1310/P550	50	0.55	200-240 △ /345-415	2.8 △ /1.6Y	11	55	100	-110	120	1×2B×2110/...2141
	60	0.63	220-275 △ /380-480	3.0 △ /1.7Y		57	120	-110	120	1×2B×2114/...2142
• PM1310/P750	50	0.75	200-240 △ /345-415	3.8 △ /2.2Y	12	55	100	-150	150	1×2B×2110/...2141
	60	0.83	220-275 △ /380-480	3.8 △ /2.2Y		57	120	-150	140	1×2B×2114/...2142
• PM1320/P850	50	0.85	200-240 △ /345-415	4.2 △ /2.4Y	17	58	110	-200	230	1×2B×2110/...2141
	60	0.95	220-275 △ /380-480	4.0 △ /2.3Y		60	130	-240	240	1×2B×2114/...2142
• PM1320/P1300	50	1.3	200-240 △ /345-415	5.7 △ /3.3Y	18	58	110	-280	290	1×2B×2110/...2141
	60	1.5	220-275 △ /380-480	6.0 △ /3.5Y		60	130	-300	400	1×2B×2114/...2142
• PM1330/P550	50	0.55	200-240 △ /345-415	2.8 △ /1.6Y	12	56	140	-60	60	1×2B×2110/...2141
	60	0.63	220-275 △ /380-480	3.0 △ /1.7Y		58	165	-50	50	1×2B×2114/...2142
• PM1330/750	50	0.75	200-240 △ /345-415	3.8 △ /2.2Y	13	56	140	-100	100	1×2B×2110/...2141
	60	0.83	220-275 △ /380-480	3.8 △ /2.2Y		58	165	-115	100	1×2B×2114/...2142

PM1-3 Series Selection diagram 50/60Hz 3AC

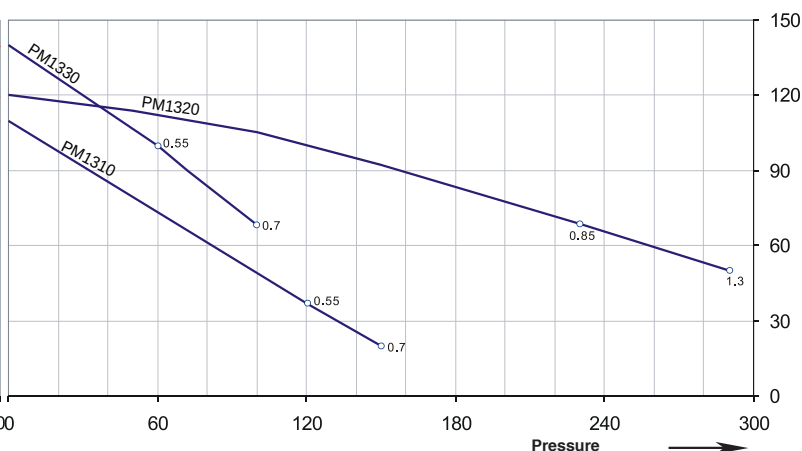


The performance curves are valid for pumping air at 15°C at the inlet flanges with an air pressure of 1.013mbar and a tolerance of $\pm 10\%$. The total pressure differences are valid up to an intake and ambient temperature of 25°C.

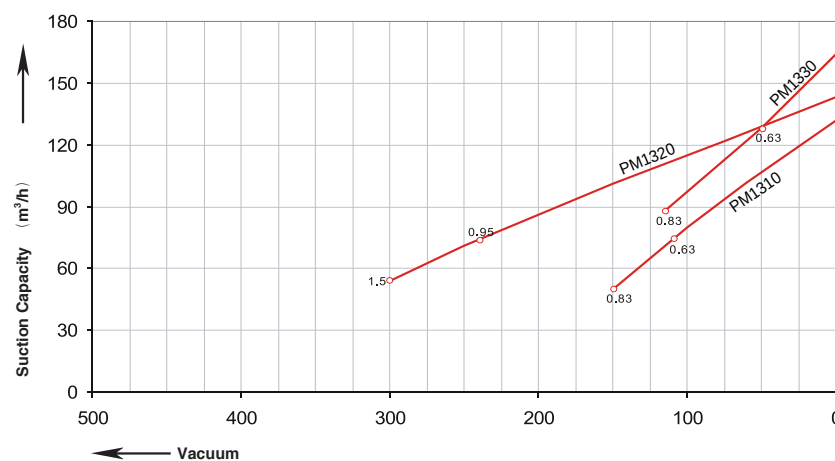
Vacuum Selection diagram 50Hz



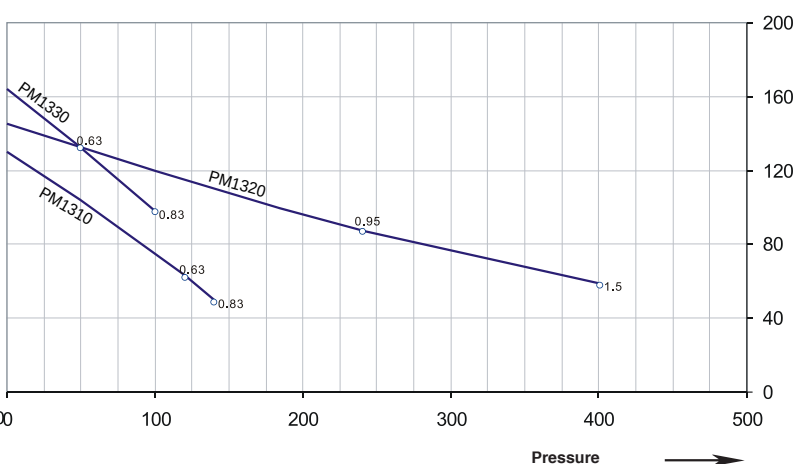
Compressor Selection Diagram 50Hz



Vacuum Selection diagram 60Hz



Compressor Selection Diagram 60Hz



PM1-4 Series 3ph AC motor

Selection and ordering data for side channel blowers in vacuum and pressure operation.

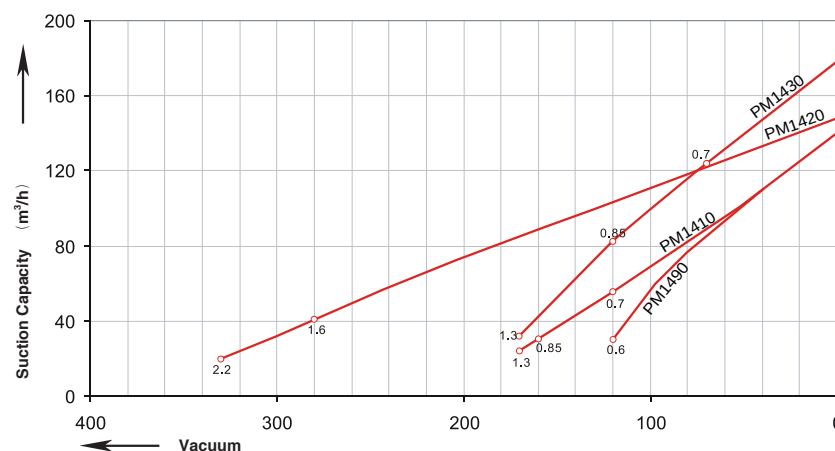
Order No.	MOTOR				Weight	Sound-	Maximum airflow	Maximum vacuum	Maximum pressure	Vacuum relief
• available ex stock	Fre- quency	rated			approx.	pressure				valve
		output	voltage	current						Items× type
	HZ	KW	V	A	kg	dB(A)	m³/h	mbar	mbar	
• PM1410/P700	50	0.7	200-240 △ /345-415	3.8 △ /2.2Y	13	63	145	-120	120	1×...2110/...2141
	60	0.83	220-275 △ /380-480	3.75 △ /2.15Y		64	175	-130	130	1×...2114/...2142
• PM1410/P850	50	0.85	200-240 △ /345-415	4.0 △ /2.3Y	16	63	145	-160	160	1×...2110/...2141
	60	0.95	220-275 △ /380-480	3.85 △ /2.25Y		64	175	-160	160	1×...2114/...2142
• PM1410/P1300	50	1.3	200-240 △ /345-415	5.7 △ /3.3Y	17	63	145	-170	200	1×...2110/...2141
	60	1.5	220-275 △ /380-480	6.0 △ /3.5Y		64	175	-210	220	1×...2114/...2142
• PM1420/P1600	50	1.6	200-240 △ /345-415	7.5 △ /4.3Y	25	66	150	-280	280	1×2B×2110/...2141
	60	2.05	220-275 △ /380-480	7.6 △ /4.4Y		69	180	-320	310	2×2B×2114/...2142
• PM1420/P2200	50	2.2	200-240 △ /345-415	9.7 △ /5.6Y	27	66	150	-330	440	1×2B×2110/...2141
	60	2.55	220-275 △ /380-480	10.0 △ /5.8Y		69	180	-350	420	1×2B×2114/...2142
• PM1430/P700	50	0.7	200-240 △ /345-415	3.8 △ /2.2Y	14	64	180	-70	70	1×...2110/...2141
	60	0.83	220-275 △ /380-480	3.8 △ /2.2Y		65	210	-50	50	2×...2114/...2142
• PM1430/P850	50	0.85	200-240 △ /345-415	4.2 △ /2.4Y	17	64	180	-120	120	1×...2110/...2141
	60	0.95	220-275 △ /380-480	4.0 △ /2.3Y		65	210	-90	70	2×...2114/...2142
• PM1430/P1300	50	1.3	200-240 △ /345-415	6.6 △ /3.8Y	18	64	180	-170	220	1×...2110/...2141
	60	1.5	220-275 △ /380-480	6.9 △ /4.0Y		65	210	-200	160	1×...2114/...2142
• PM1490/P600	50	0.6	200-240 △ /345-415	2.8 △ /1.6Y	14	63	140	-120	120	——
	60	0.85	220-275 △ /380-480	3.6 △ /2.1Y		64	175	-140	140	——

PM1-4 Series Selection diagram 50/60Hz 3AC

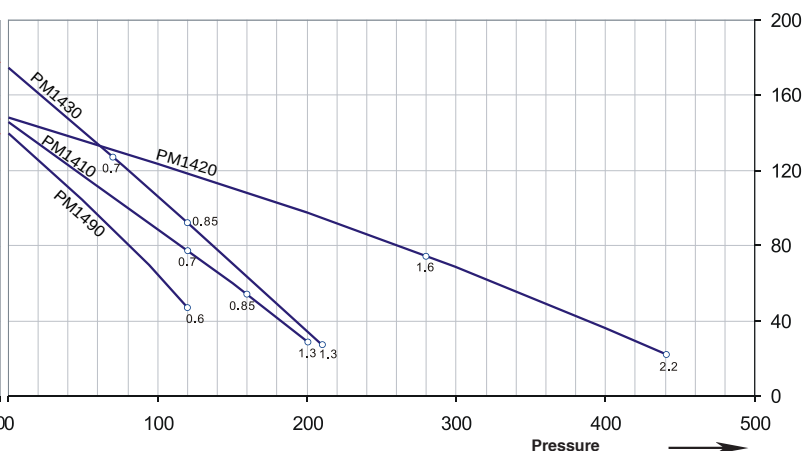


The performance curves are valid for pumping air at 15°C at the inlet flanges with an air pressure of 1.013mbar and a tolerance of $\pm 10\%$. The total pressure differences are valid up to an intake and ambient temperature of 25°C.

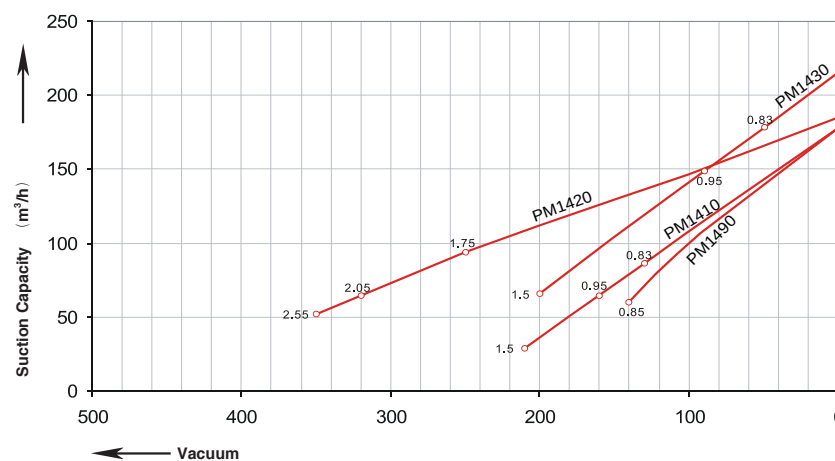
Vacuum Selection diagram 50Hz



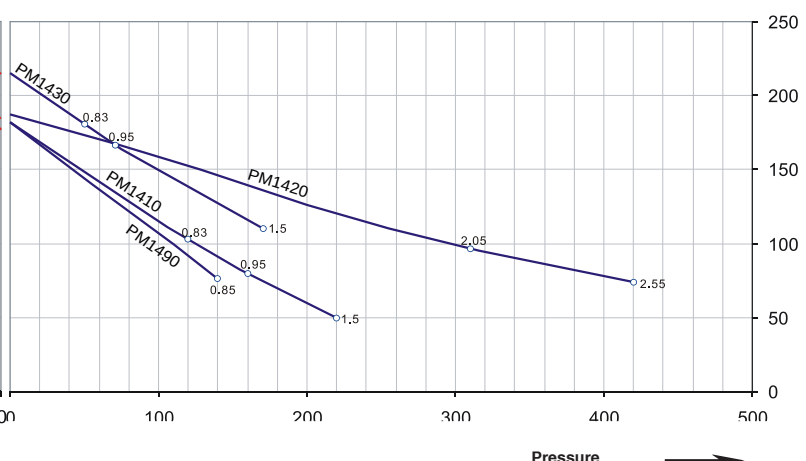
Compressor Selection Diagram 50Hz



Vacuum Selection diagram 60Hz



Compressor Selection Diagram 60Hz



PM1-5 Series 3ph AC motor

Selection and ordering data for side channel blowers in vacuum and pressure operation.

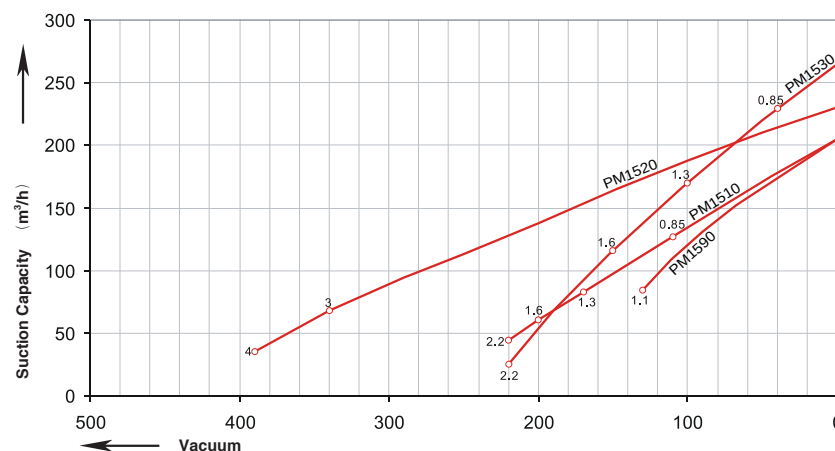
Order No.	MOTOR				Weight approx.	Sound-pressure	Maximum airflow	Maximum vacuum	Maximum pressure	Vacuum relief valve
• available ex stock	Fre-quency	output	voltage	current						Items X type
	HZ	KW	V	A	kg	dB(A)	m³/h	mbar	mbar	
• PM1510/P850	50	0.85	200-240 △ /345-415	4.0 △ /2.3Y	20	64	210	-110	100	1×...2110/...2145
	60	0.95	220-275 △ /380-480	4.2 △ /2.3Y		70	255	-80	70	1×...2114/...2146
• PM1510/P1300	50	1.3	200-240 △ /345-415	6.6 △ /3.8Y	22	64	210	-170	170	1×...2110/...2145
	60	1.5	220-275 △ /380-480	6.9 △ /4.0Y		70	255	-150	140	1×...2114/...2146
• PM1510/P1600	50	1.6	200-240 △ /345-415	7.5 △ /4.3Y	23	64	210	-200	190	1×...2110/...2145
	60	2.05	220-275 △ /380-480	7.6 △ /4.4Y		70	255	-220	210	1×...2114/...2146
• PM1510/P2200	50	2.2	200-240 △ /345-415	9.7 △ /5.6Y	25	64	210	-220	270	1×...2110/...2145
	60	2.55	220-275 △ /380-480	10.3 △ /6.0Y		70	255	-260	290	1×...2114/...2146
• PM1520/P3000	50	3.0	200-240 △ /345-415	12.5 △ /7.2Y	40	72	230	-340	410	1×2B×2110/...2145
	60	3.45	220-275 △ /380-480	12.6 △ /7.3Y		74	275	-380	360	1×2B×2114/...2146
• PM1520/P4000	50	4.0	345-415 △ /600-720	10.0 △ /5.8Y	44	72	230	-390	490	1×2B×2110/...2145
	60	4.6	380-480 △ /660-720	9.9 △ /5.71Y		74	275	-410	480	1×2B×2114/...2146
• PM1530/P850	50	0.85	200-240 △ /345-415	4.0 △ /2.3Y	21	65	270	-40	40	1×...2110/...2145
	60	0.95	220-275 △ /380-480	4.2 △ /2.4Y		71	330	-40	40	1×...2114/...2146
• PM1530/P1300	50	1.3	200-240 △ /345-415	6.6 △ /3.8Y	23	65	270	-100	100	1×...2110/...2145
	60	1.5	220-275 △ /380-480	6.9 △ /4.0Y		71	330	-70	50	1×...2114/...2146
• PM1530/P1600	50	1.6	200-240 △ /345-415	7.5 △ /4.3Y	24	65	270	-150	150	1×...2110/...2145
	60	2.05	220-275 △ /380-480	7.6 △ /4.4Y		71	330	-150	130	1×...2114/...2146
• PM1530/P2200	50	2.2	200-240 △ /345-415	9.7 △ /5.6Y	26	65	270	-220	230	1×...2110/...2145
	60	2.55	220-275 △ /380-480	10.3 △ /6.0Y		71	330	-230	210	1×...2110/...2146
• PM1590/P1100	50	1.1	200-240 △ /345-415	5.7 △ /3.3Y	23	64	210	-130	150	-
	60	1.7	220-275 △ /380-480	6.0 △ /3.5Y		71	255	-180	210	-

PM1-5 Series Selection diagram 50/60Hz 3AC

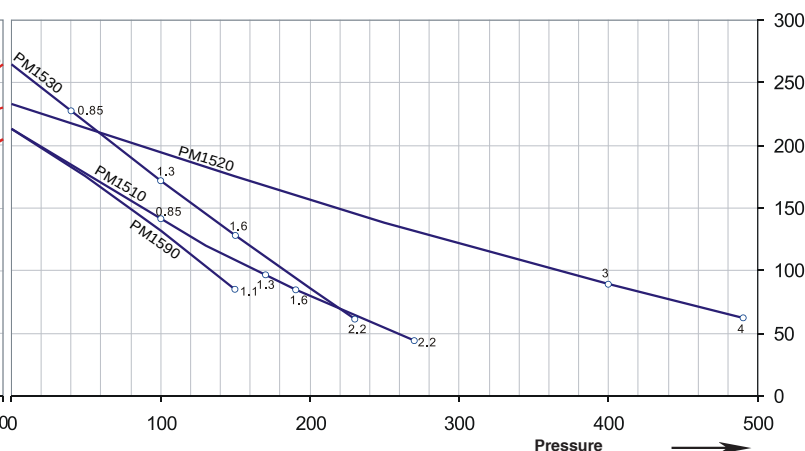


The performance curves are valid for pumping air at 15°C at the inlet flanges with an air pressure of 1.013mbar and a tolerance of $\pm 10\%$. The total pressure differences are valid up to an intake and ambient temperature of 25°C.

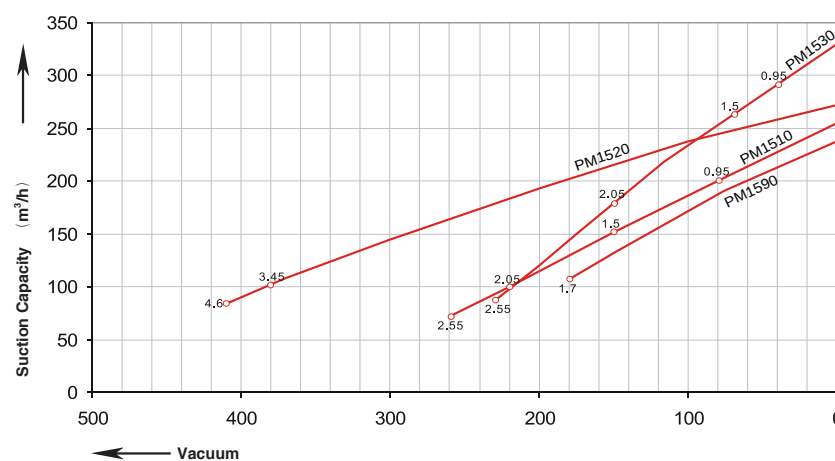
Vacuum Selection diagram 50Hz



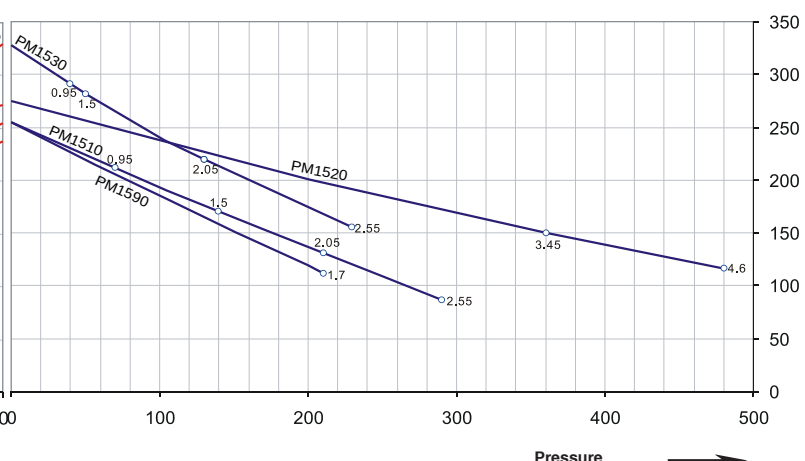
Compressor Selection Diagram 50Hz



Vacuum Selection diagram 60Hz



Compressor Selection Diagram 60Hz



PM1-6 Series 3ph AC motor

Selection and ordering data for side channel blowers in vacuum and pressure operation.

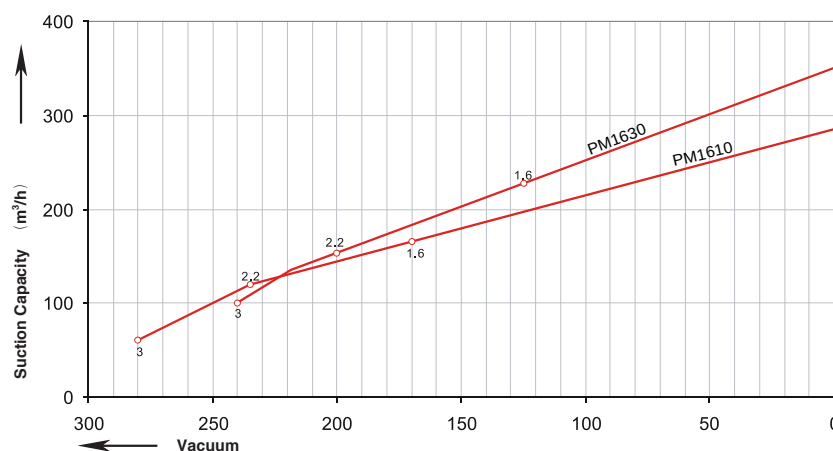
Order No.	MOTOR				Weight approx.	Sound-pressure	Maximum airflow	Maximum vacuum	Maximum pressure	Vacuum relief valve
• available ex stock	Fre-quency	output	voltage	current						Items X type
	HZ	KW	V	A	kg	dB(A)	m³/h	mbar	mbar	
• PM1610/P1600	50	1.6	200-240 △ /345-415	8.5 △ /4.9Y	25	68	265	-170	180	1×...2110/...2145
	60	2.05	220-275 △ /380-480	8.8 △ /5.1Y		70	315	-180	190	1×...2114/...2146
• PM1610/P2200	50	2.2	200-240 △ /345-415	9.7 △ /5.6Y	28	69	265	-235	220	1×...2110/...2145
	60	2.55	220-275 △ /380-480	10.3 △ /6.0Y		72	315	-245	230	1×...2114/...2146
• PM1610/P3000	50	3.0	200-240 △ /345-415	12.5 △ /7.2Y	34	69	265	-280	280	1×...2110/...2145
	60	3.45	220-275 △ /380-480	12.6 △ /7.3Y		72	315	-260	270	1×...2114/...2146
• PM1630/P1600	50	1.6	200-240 △ /345-415	8.5 △ /4.9Y	26	70	345	-125	125	1×...2110/...2145
	60	2.05	220-275 △ /380-480	8.8 △ /5.1Y		73	415	-105	130	1×...2114/...2146
• PM1630/P2200	50	2.2	200-240 △ /345-415	9.7 △ /5.6Y	29	70	345	-200	195	1×...2110/...2145
	60	2.55	220-275 △ /380-480	10.3 △ /6.0Y		73	415	-170	195	1×...2114/...2146
• PM1630/P3000	50	3.0	345-415 △ /600-720	12.5 △ /7.2Y	35	70	345	-240	220	1×...2110/...2145
	60	3.45	380-480 △ /660-720	12.6 △ /7.3Y		73	415	-210	220	1×...2114/...2146

PM1-6 Series Selection diagram 50/60Hz 3AC

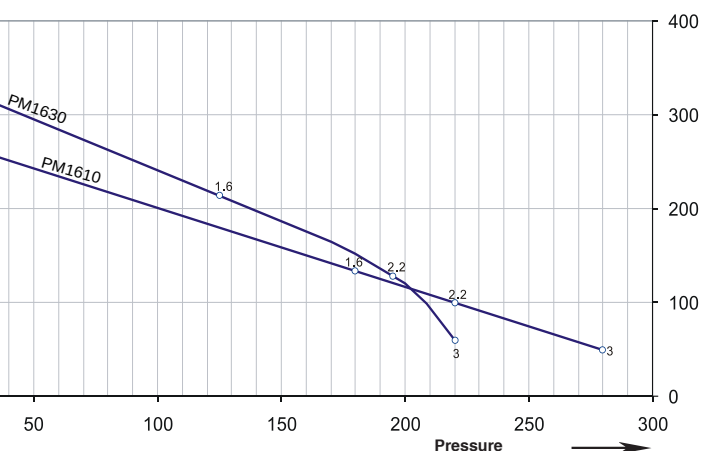


The performance curves are valid for pumping air at 15°C at the inlet flanges with an air pressure of 1.013mbar and a tolerance of $\pm 10\%$. The total pressure differences are valid up to an intake and ambient temperature of 25°C.

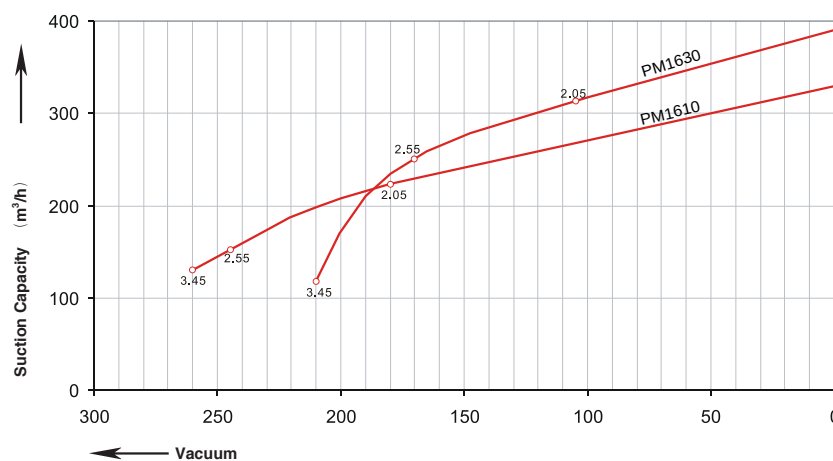
Vacuum Selection diagram 50Hz



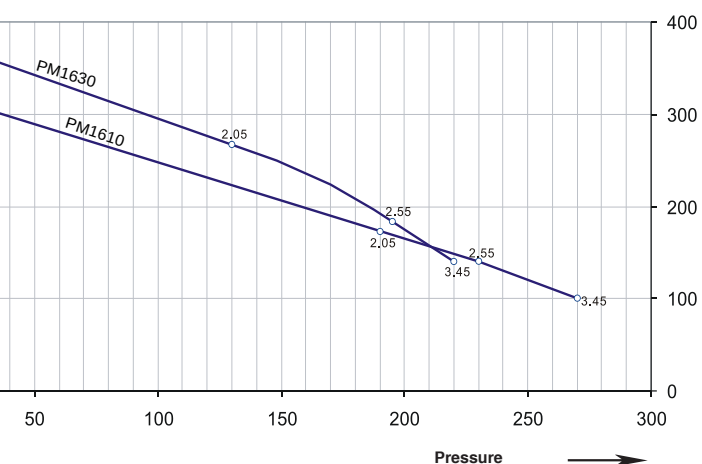
Compressor Seletion Diagram 50Hz



Vacuum Selection diagram 60Hz



Compressor Seletion Diagram 60Hz



PM1-7 Series 3ph AC motor

Selection and ordering data for side channel blowers in vacuum and pressure operation.

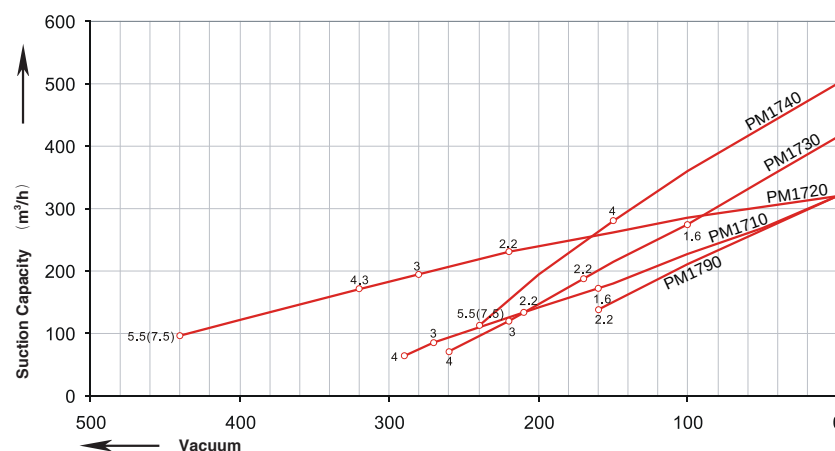
Order No.	MOTOR				Weight approx.	Sound-pressure	Maximum airflow	Maximum vacuum	Maximum pressure	Vacuum relief valve
• available ex stock	Fre-quency	output	voltage	current						Items X type
	HZ	KW	V	A	kg	dB(A)	m ³ /h	mbar	mbar	
• PM1710/P1600	50	1.6	200-240 △ /345-415	8.5 △ /4.9Y	27	69	318	-160	150	1×...2110/...2145
	60	2.05	220-275 △ /380-480	8.8 △ /5.1Y		72	376	-160	150	1×...2114/...2146
• PM1710/P2200	50	2.2	200-240 △ /345-415	9.7 △ /5.6Y	30	69	318	-210	200	1×...2110/...2145
	60	2.55	220-275 △ /380-480	10.3 △ /6.0Y		72	376	-210	200	1×...2114/...2146
• PM1710/P3000	50	3.0	200-240 △ /345-415	12.5 △ /7.2Y	36	69	318	-270	290	1×...2110/...2145
	60	3.45	220-275 △ /380-480	12.6 △ /7.3Y		72	376	-250	230	1×...2114/...2146
• PM1710/P4000	50	4.0	345-415 △ /600-720	9.0 △ /5.2Y	40	69	318	-290	330	1×...2110/...2145
	60	4.6	380-480 △ /660-720	9.0 △ /5.2Y		72	376	-230	330	1×...2114/...2146
• PM1720/P2200	50	2.2	200-240 △ /345-415	9.7 △ /5.6Y	43	73	320	-220	210	1×2B×2110/...2145
	60	2.55	220-275 △ /380-480	10.3 △ /6.0Y		76	380	-170	150	2×2B×2114/...2146
• PM1720/P3000	50	3.0	200-240 △ /345-415	12.5 △ /7.2Y	48	73	320	-280	260	1×2B×2110/...2145
	60	3.45	220-275 △ /380-480	12.6 △ /7.3Y		76	380	-230	200	2×2B×2114/...2146
• PM1720/P4300	50	4.3	345-415 △ /600-720	10.0 △ /5.2Y	54	73	320	-360	380	1×2B×2110/...2145
	60	4.8	380-480 △ /660-720	10.4 △ /6.0Y		76	380	-350	320	1×2B×2114/...2146
• PM1720/P5500	50	5.5	345-415 △ /600-720	13.3 △ /7.7Y	66	73	320	-440	500	1×2B×2110/...2145
	60	6.3	380-480 △ /660-720	13.3 △ /7.7Y		76	380	-440	500	1×2B×2114/...2146
• PM1720/P7500	50	7.5	345-415 △ /600-720	16.7 △ /9.6Y	73	73	320	-440	570	1×2B×2110/...2145
	60	8.6	380-480 △ /660-720	17.3 △ /10.0Y		76	380	-460	660	1×2B×2114/...2146
• PM1730/P1600	50	1.6	200-240 △ /345-415	8.5 △ /4.9Y	29	70	420	-100	100	1×...2110/...2145
	60	2.05	220-275 △ /380-480	8.8 △ /5.1Y		73	500	-110	80	3×...2114/...2146
• PM1730/P2200	50	2.2	200-240 △ /345-415	9.7 △ /5.6Y	32	70	420	-170	170	1×...2110/...2145
	60	2.55	220-275 △ /380-480	10.3 △ /6.0Y		73	500	-160	120	2×...2114/...2146
• PM1730/P3000	50	3.0	200-240 △ /345-415	12.5 △ /7.2Y	37	70	420	-220	220	1×...2110/...2145
	60	3.45	220-275 △ /380-480	12.6 △ /7.3Y		73	500	-200	190	2×...2114/...2146
• PM1730/P4000	50	4.0	345-415 △ /600-720	9.0 △ /5.2Y	43	70	420	-260	310	1×...2110/...2145
	60	4.6	380-480 △ /660-720	9.0 △ /5.2Y		73	500	-260	280	2×...2114/...2146
• PM1740/P4000	50	4.0	345-415 △ /600-720	9.0 △ /5.2Y	54	74	500	-150	140	1×2B×2110/...2145
	60	4.6	380-480 △ /660-720	9.0 △ /5.2Y		78	600	-100	90	2×2B×2114/...2146
• PM1740/P5500	50	5.5	345-415 △ /600-720	13.3 △ /7.7Y	69	74	500	-240	260	1×2B×2110/...2145
	60	6.3	380-480 △ /660-720	13.3 △ /7.7Y		78	600	-210	200	2×2B×2114/...2146
• PM1740/P7500	50	7.5	345-415 △ /600-720	16.7 △ /9.6Y	75	74	500	-240	320	1×2B×2110/...2145
	60	8.6	380-480 △ /660-720	17.3 △ /10.0Y		78	600	-270	300	1×2B×2114/...2146
• PM1790/P2200	50	2.2	200-240 △ /345-415	12.5 △ /7.2Y	36	69	320	-160	200	-
	60	3.45	220-275 △ /380-480	12.6 △ /7.3Y		72	370	-240	250	-

PM1-7 Series Selection diagram 50/60Hz 3AC

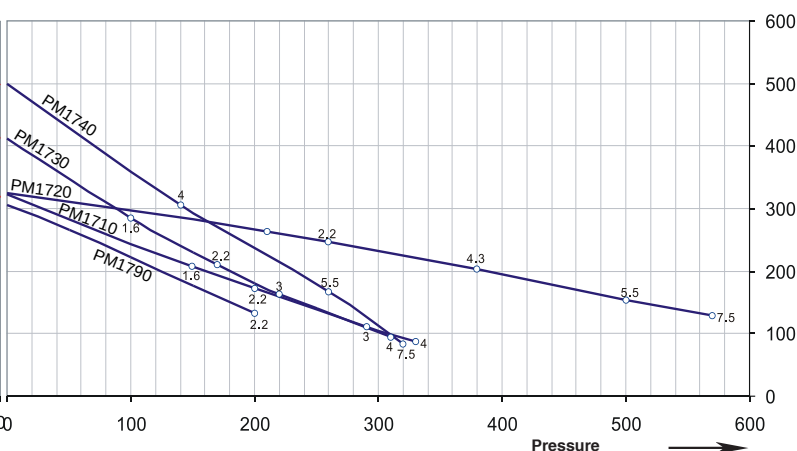


The performance curves are valid for pumping air at 15°C at the inlet flanges with an air pressure of 1.013mbar and a tolerance of $\pm 10\%$. The total pressure differences are valid up to an intake and ambient temperature of 25°C.

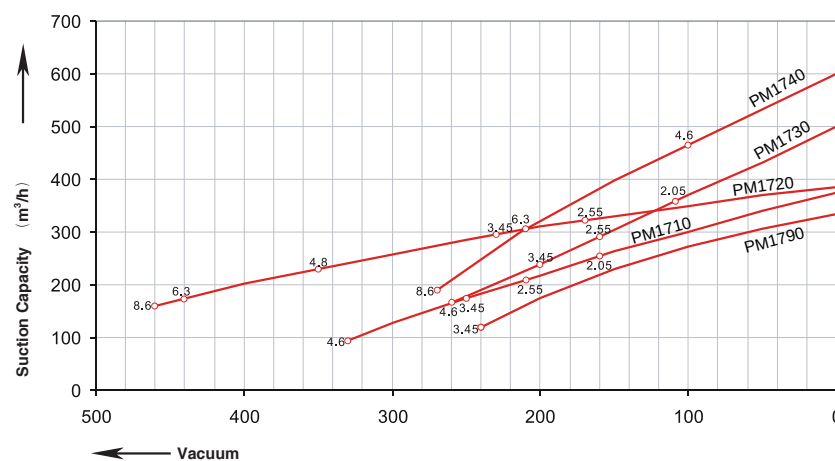
Vacuum Selection diagram 50Hz



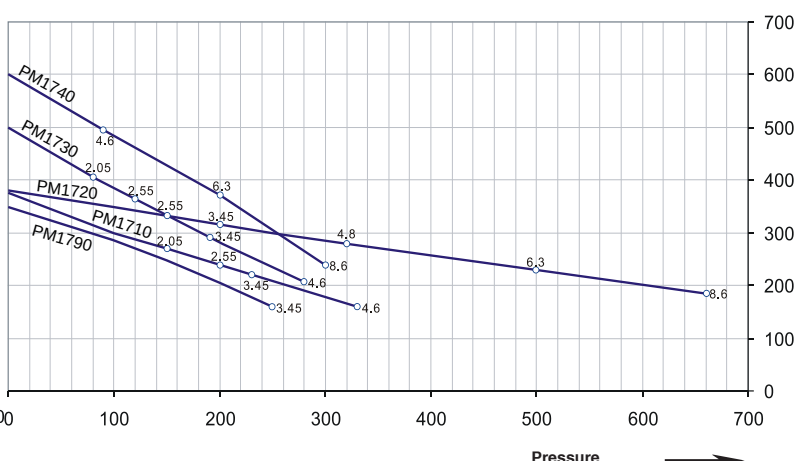
Compressor Selection Diagram 50Hz



Vacuum Selection diagram 60Hz



Compressor Selection Diagram 60Hz



PM1-8 Series 3ph AC motor

Selection and ordering data for side channel blowers in vacuum and pressure operation.

Order No.	MOTOR				Weight approx.	Sound-pressure	Maximum airflow	Maximum vacuum	Maximum pressure	Vacuum relief valve
• available ex stock	Fre-quency	output	voltage	current						Items X type
	HZ	KW	V	A	kg	dB(A)	m³/h	mbar	mbar	
• PM1810/P4000	50	4.0	345-415 △ /600-720	9.5 △ /5.5Y	54	70	530	-200	200	1×2B×4740/...4840
	60	4.6	380-480 △ /660-720	9.5 △ /5.5Y		74	620	-160	160	1×2B×4744/...4844
• PM1810/P5500	50	5.5	345-415 △ /600-720	12.9 △ /7.4Y	63	70	530	-300	300	1×2B×4740/...4840
	60	6.3	380-480 △ /660-720	12.9 △ /7.45Y		74	620	-300	280	1×2B×4744/...4844
• PM1810/P7500	50	7.5	345-415 △ /600-720	16.7 △ /9.6Y	66	70	530	-320	430	1×2B×4740/...4840
	60	8.6	380-480 △ /660-720	17.3 △ /10.0Y		74	620	-350	400	1×2B×4744/...4844
• PM1820/P5500	50	5.5	345-415 △ /600-720	13.3 △ /7.7Y	83	74	520	-240	240	1×2B×4740/...4840
	60	6.3	380-480 △ /660-720	13.3 △ /7.7Y		78	620	-170	160	1×2B×4744/...4844
• PM1820/P7500	50	7.5	345-415 △ /600-720	16.7 △ /9.6Y	86	74	520	-400	400	1×2B×4740/...4840
	60	8.6	380-480 △ /660-720	17.3 △ /10.0Y		78	620	-360	330	2×2B×4744/...4844
• PM1820/11P	50	11.0	345-415 △ /600-720	28.0 △ /16.2Y	104	74	520	-430	600	1×2B×4740/...4840
	60	12.6	380-480 △ /660-720	29.0 △ /16.7Y		78	620	-460	600	2×2B×4744/...4844
• PM1820/15P	50	15.0	345-415 △ /600-720	32.5 △ /18.8Y	120	74	520	-460	670	1×2B×4740/...4840
	60	17.3	380-480 △ /660-720	34.5 △ /19.9Y		78	620	-490	750	1×2B×4744/...4844
• PM1830/P4000	50	4.0	345-415 △ /600-720	9.5 △ /5.5Y	57	70	700	-150	140	1×2B×2110/...2145
	60	4.6	380-480 △ /660-720	9.5 △ /5.5Y		74	840	-90	90	1×2B×4744/...4844
• PM1830/P5500	50	5.5	345-415 △ /600-720	12.9 △ /7.4Y	66	70	700	-200	180	1×2B×2110/...2145
	60	6.3	380-480 △ /660-720	12.9 △ /7.45Y		74	840	-180	180	1×2B×4744/...4844
• PM1830/P7500	50	7.5	345-415 △ /600-720	16.7 △ /9.6Y	69	70	700	-270	260	1×2B×2110/...2145
	60	8.6	380-480 △ /660-720	17.3 △ /10.0Y		74	840	-270	260	1×2B×4744/...4844
• PM1840/P7500	50	7.5	345-415 △ /600-720	16.7 △ /9.6Y	91	74	900	-200	180	1×2B×4740/...4840
	60	8.6	380-480 △ /660-720	17.3 △ /10.0Y		78	1050	-150	120	1×2B×4744/...4844
• PM1840/11P	50	11.0	345-415 △ /600-720	28.0 △ /16.2Y	110	74	900	-280	370	1×2B×4740/...4840
	60	12.6	380-480 △ /660-720	29.0 △ /16.7Y		78	1050	-310	350	1×2B×4744/...4844

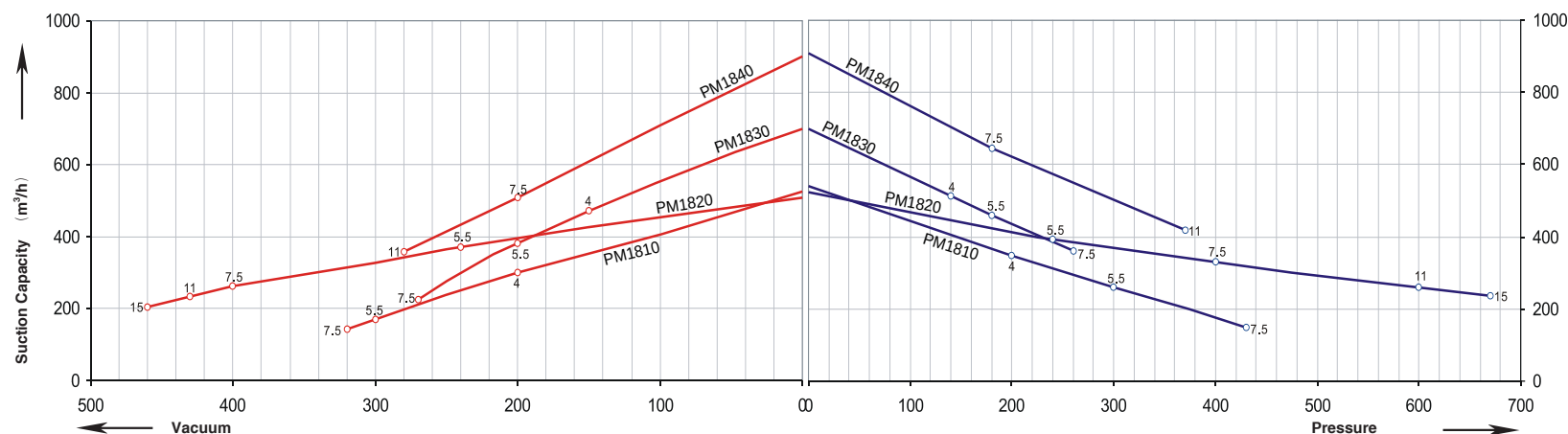
PM1-8 Series Selection diagram 50/60Hz 3AC



The performance curves are valid for pumping air at 15°C at the inlet flanges with an air pressure of 1.013mbar and a tolerance of $\pm 10\%$. The total pressure differences are valid up to an intake and ambient temperature of 25°C.

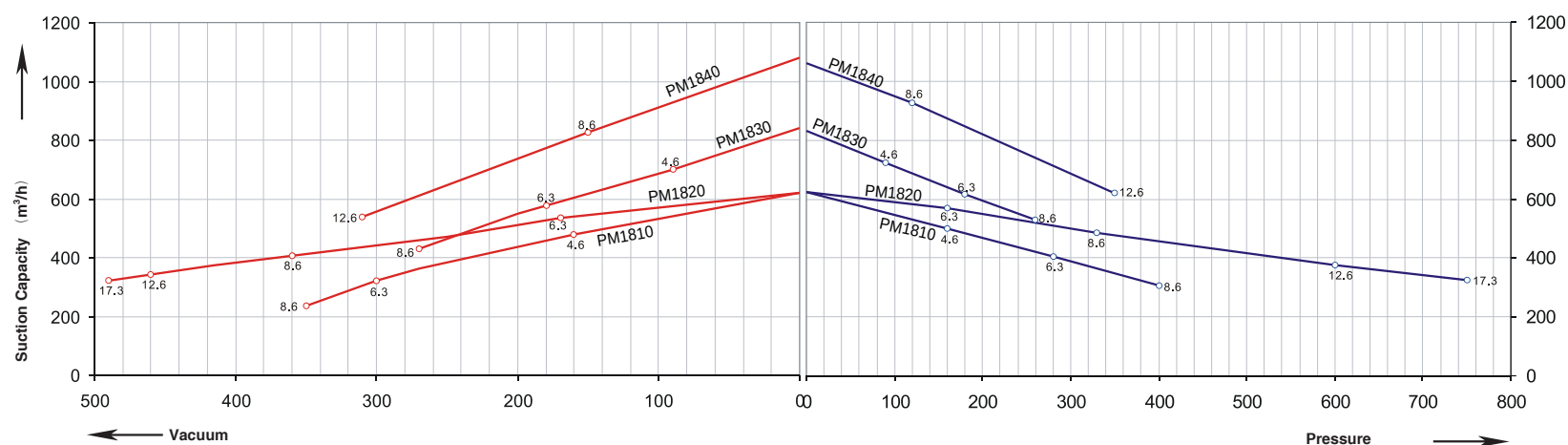
Vacuum Selection diagram 50Hz

Compressor Selection Diagram 50Hz



Vacuum Selection diagram 60Hz

Compressor Selection Diagram 60Hz



PM1-9 Series 3ph AC motor

Selection and ordering data for side channel blowers in vacuum and pressure operation.

Order No.	MOTOR				Weight	Sound-	Maximum airflow	Maximum vacuum	Maximum pressure	Vacuum relief
• available ex stock	Fre- quency	rated			approx.	pressure				valve
		output	voltage	current						Items X type
	HZ	KW	V	A	kg	dB(A)	m³/h	mbar	mbar	
• PM1910/P8500	50	8.5	345-415 △ /600-720	18.2 △ /10.5Y	93	74	1050	-210	210	1×...750/...860
	60	9.8	380-480 △ /660-720	18.2 △ /10.5Y		79	1250	-180	180	1×...754/...864
• PM1910/12P5	50	12.5	345-415 △ /600-720	28.0 △ /16.2Y	116	74	1050	-280	270	1×...750/...860
	60	14.5	380-480 △ /660-720	29.0 △ /16.7Y		79	1250	-270	260	1×...754/...864
• PM1910/18P5	50	18.5	345-415 △ /600-720	37.0 △ /21.0Y	126	74	1050	-340	460	1×...750/...860
	60	21.3	380-480 △ /660-720	39.0 △ /22.5Y		79	1250	-380	420	1×...754/...864
• PM1920/12P5	50	12.5	345-415 △ /600-720	28.0 △ /16.2Y	187	74	1110	-300	270	1×...750/...860
	60	14.5	380-480 △ /660-720	29.0 △ /16.7Y		78	1310	-220	200	1×...754/...864
• PM1920/16P5	50	16.5	345-415 △ /600-720	35.0 △ /20.0Y	197	74	1110	-410	370	1×...750/...860
	60	19.0	380-480 △ /660-720	36.5 △ /21.0Y		78	1310	-340	300	1×...754/...864
• PM1920/20P	50	20.0	345-415 △ /600-720	40.0 △ /23.0Y	204	74	1110	-440	500	1×...750/...860
	60	23.0	380-480 △ /660-720	42.0 △ /24.2Y		78	1310	-440	430	1×...754/...864
• PM1920/25P	50	25.0	345-415 △ /600-720	52.0 △ /30.0Y	211	74	1110	-440	590	1×...750/...860
	60	29.0	380-480 △ /660-720	52.0 △ /30.0Y		78	1310	-440	540	1×...754/...864
• PM1930/8500	50	8.5	345-415 △ /600-720	18.2 △ /10.5Y	98	75	1370	-120	110	2×...750/1×...880
	60	9.8	380-480 △ /660-720	18.2 △ /10.5Y		80	1650	-80	70	2×...754/1×...864
• PM1930/12P5	50	12.5	345-415 △ /600-720	28.0 △ /16.2Y	121	75	1370	-210	190	1×...750/...880
	60	14.5	380-480 △ /660-720	29.0 △ /16.7Y		80	1650	-170	160	1×...754/...864
• PM1930/18P5	50	18.5	345-415 △ /600-720	37.0 △ /21.0Y	131	75	1370	-310	320	1×...750/...880
	60	21.3	380-480 △ /660-720	39.0 △ /22.5Y		80	1650	-300	280	1×...754/...864
• PM1940/15P	50	15.0	345-415 △ /600-720	35.0 △ /20.0Y	187	75	1940	-130	110	2×...750/1×...880
	60	17.5	380-480 △ /660-720	36.5 △ /21.0Y		84	2310	-60	40	2×...754/1×...864
• PM1940/20P	50	20.0	345-415 △ /600-720	40.0 △ /23.0Y	212	75	1940	-220	200	2×...750/1×...880
	60	23.0	380-480 △ /660-720	42.0 △ /24.2Y		84	2310	-160	130	2×...754/1×...864
• PM1940/25P	50	25.0	345-415 △ /600-720	52.0 △ /30.0Y	219	75	1940	-310	270	1×...750/...880
	60	29.0	380-480 △ /660-720	52.0 △ /30.0Y		84	2310	-270	220	1×...754/...864
• PM1943/15P 1)	50	15.0	345-415 △ /600-720	35.0 △ /20.0Y	220	75	2050	-160	170	2×...750/1×...870
	60	17.5	380-480 △ /660-720	36.5 △ /21.0Y		84	2480	-110	120	2×...754/1×...874
• PM1943/20P 1)	50	20.0	345-415 △ /600-720	40.0 △ /23.0Y	230	75	2050	-250	230	2×...750/1×...870
	60	23.0	380-480 △ /660-720	42.0 △ /24.2Y		84	2480	-190	180	2×...754/1×...874
• PM1943/25P 1)	50	25.0	345-415 △ /600-720	52.0 △ /30.0Y	235	75	2050	-310	270	2×...750/1×...870
	60	29.0	380-480 △ /660-720	52.0 △ /30.0Y		84	2480	-270	230	2×...754/1×...874

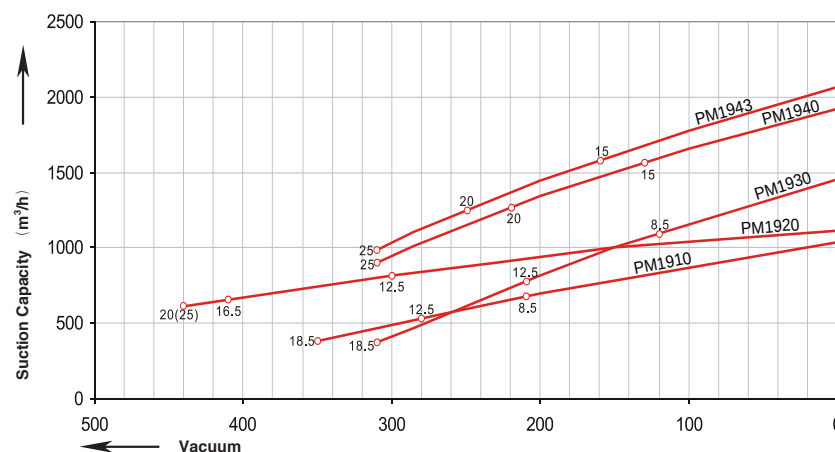
1) -mounting on the end-casing only

PM1-9 Series Selection diagram 50/60Hz 3AC

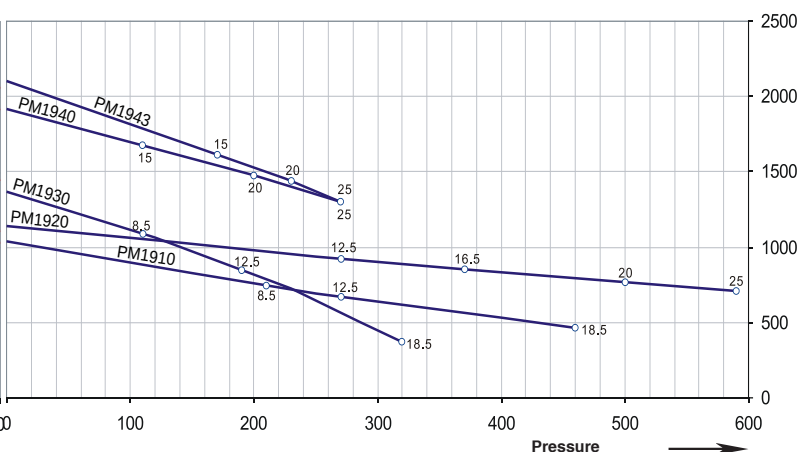


The performance curves are valid for pumping air at 15°C at the inlet flanges with an air pressure of 1.013mbar and a tolerance of $\pm 10\%$. The total pressure differences are valid up to an intake and ambient temperature of 25°C.

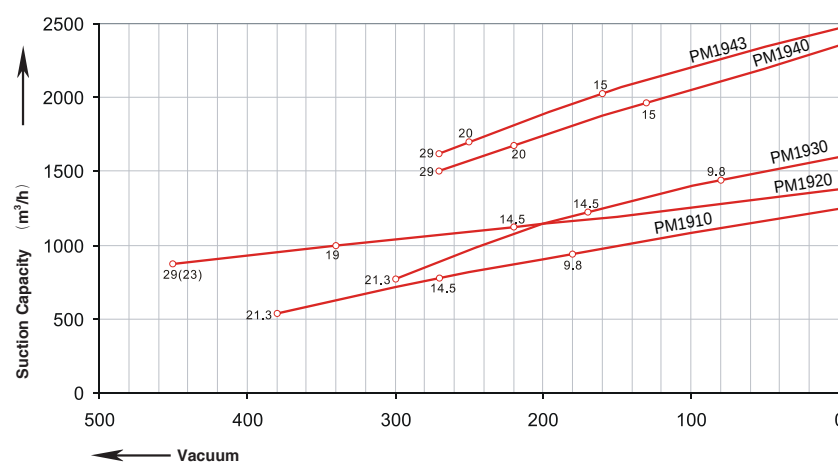
Vacuum Selection diagram 50Hz



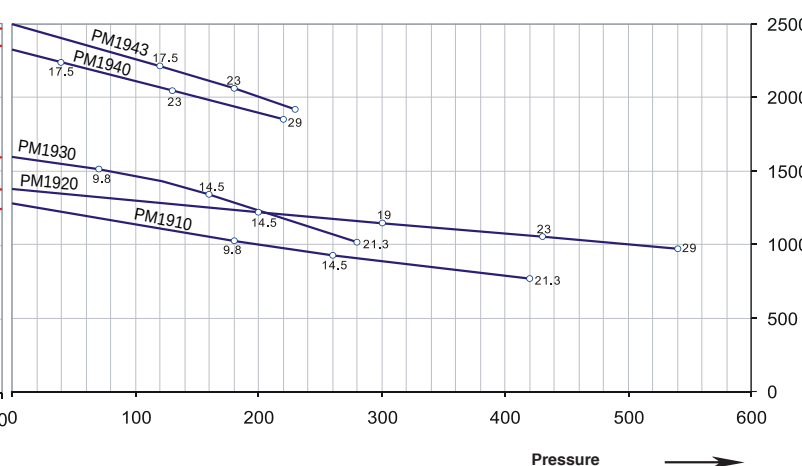
Compressor Selection Diagram 50Hz



Vacuum Selection diagram 60Hz

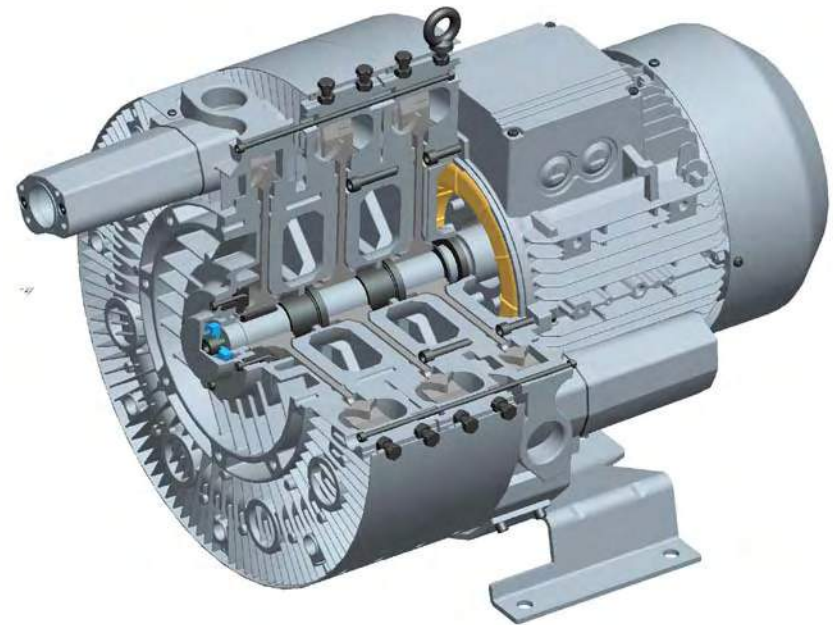
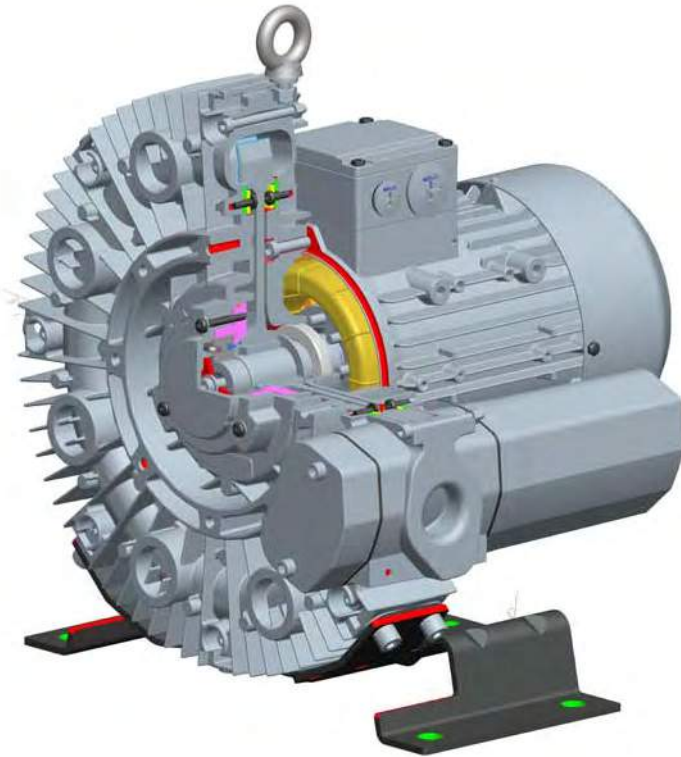


Compressor Selection Diagram 60Hz



PM7 series

Single and double stage



UNSURPASSED AT HIGHEST

Our revolutionary PM7 series blower can create pressure difference of up to 1000mbar-more than any other gas ring pump. So far, the systems used to reach these differential pressure ranges were much louder and larger-or subject to wear. Now the advantage of wear-free operation coupled with a low noise level can also be used in most demanding applications.

The PM7 series side channel vacuum pump/compressor can work up to 20,000 hours without maintenance down time.

These specialist machines have proven their reliability under the harshest of conditions. Their noise level was already impressively low, but our engineers and designers are able to make them even more quiet.

Selection diagrams and tables for PM7 series	Pages 27-32
Vacuum and pressure mode, 50Hz and 60Hz	
Details on voltages, footnotes etc see	Page 55

PM7 Series 1ph AC motor

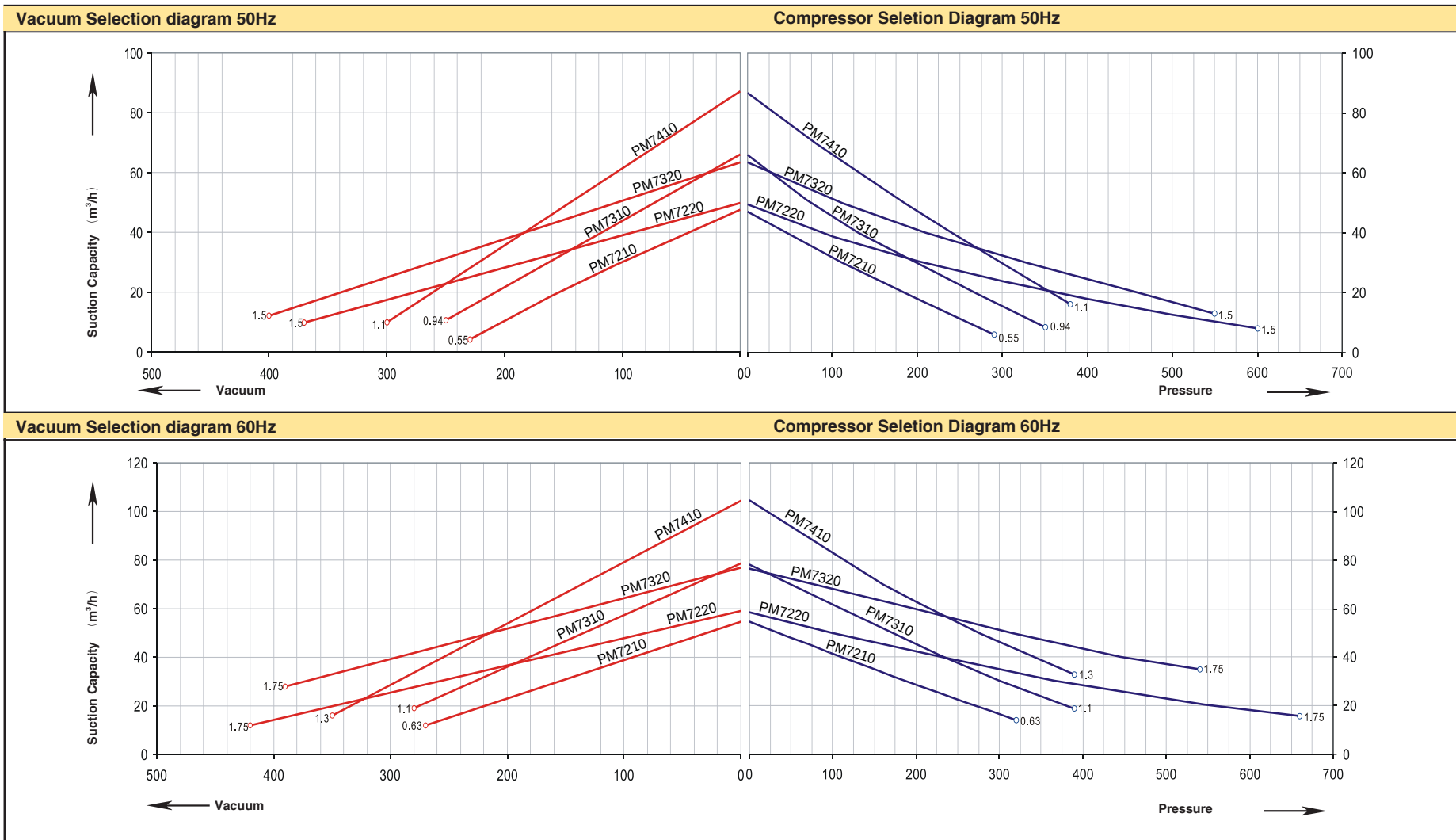
Selection and ordering data for side channel blowers in vacuum and pressure operation(Single phase)

Order No.	MOTOR				Weight	Sound-	Maximum airflow	Maximum vacuum	Maximum pressure	Vacuum relief
• available ex stock	Fre- quency	rated			approx.	pressure				valve
		output	voltage	current						Items× type
	HZ	KW	V	A	kg	dB(A)	m³/h	mbar	mbar	
• PM7210/P550-1	50	0.55	200-240	13/3.1	18	57	47	-230	290	1×...2110/...2141
	60	0.63	200-240	14.2/7.1		62	57	-270	320	1×...2114/...2142
• PM7220/P1500-1	50	1.5	200-240	19.4/9.7	30	58	47	-370	600	1×...2110/...2141
	60	1.75	200-240	20.6/10.3		62	60	-420	660	1×...2114/...2142
• PM7310/P940-1	50	0.94	200-240	15.2/7.6	18	57	66	-250	350	1×...2110/...2141
	60	1.1	200-240	18/9		62	80	-280	390	1×...2114/...2142
• PM7320/P1500-1	50	1.5	200-240	19.4/9.7	32	59	65	-400	550	1×...2110/...2141
	60	1.75	200-240	20.6/10.3		63	76	-390	540	1×...2114/...2142
• PM7410/P1100-1	50	1.1	200-240	10.1	23	58	87	-300	380	1×...2110/...2141
	60	1.3	200-240	20		63	105	-350	390	1×...2114/...2142

PM7 Series Selection diagram 50/60Hz 1AC



The performance curves are valid for pumping air at 15°C at the inlet flanges with an air pressure of 1.013mbar and a tolerance of $\pm 10\%$. The total pressure differences are valid up to an intake and ambient temperature of 25°C.



PM7 Series 3ph AC motor Single stage

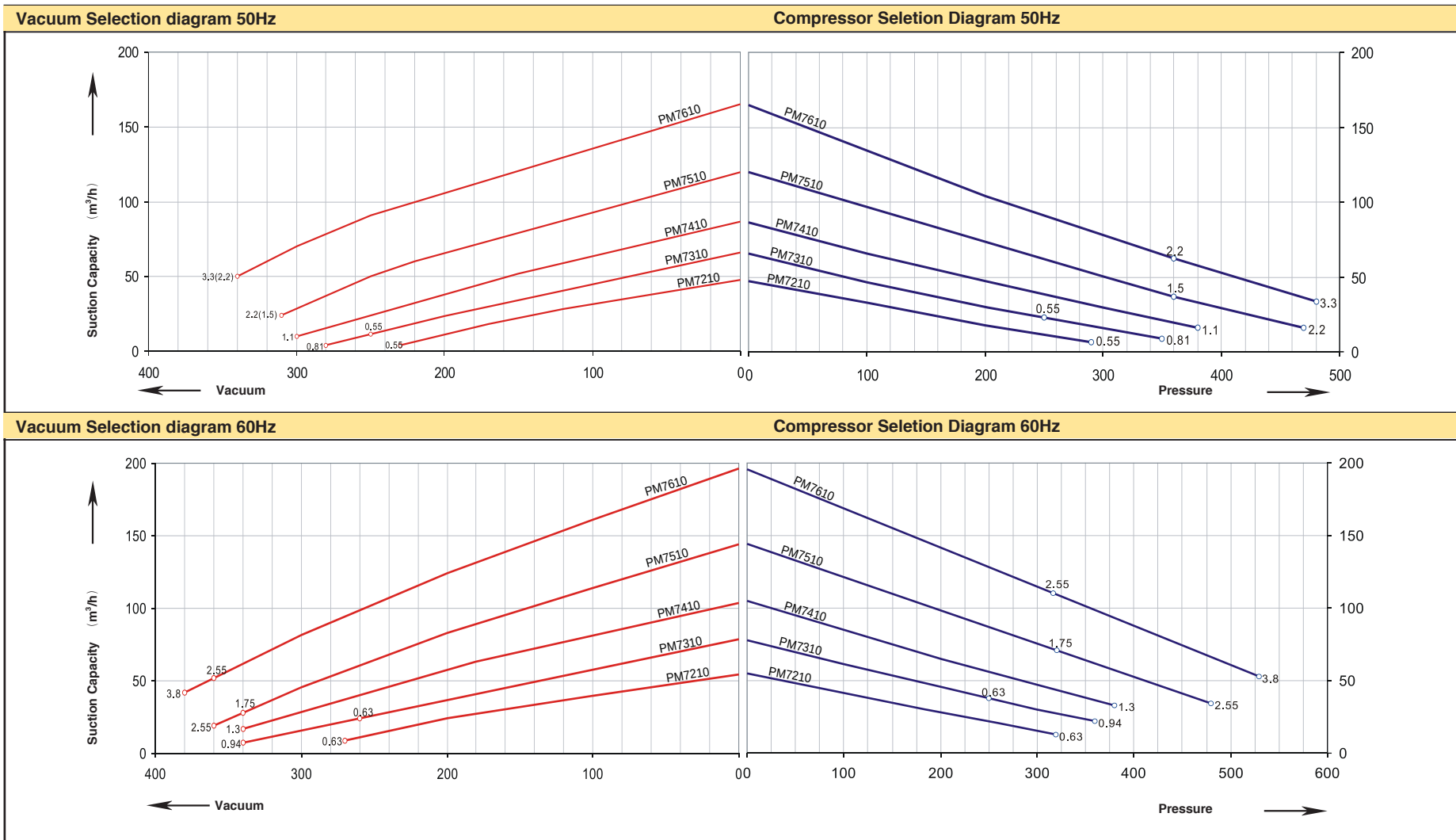
Selection and ordering data for side channel blowers in vacuum and pressure operation(Three phase single stage)

Order No.	MOTOR				Weight approx.	Sound-pressure	Maximum airflow	Maximum vacuum	Maximum pressure	Vacuum relief valve
• available ex stock	Fre-quency	output	voltage	current						Items× type
	HZ	KW	V	A	kg	dB(A)	m ³ /h	mbar	mbar	
• PM7210/P550	50	0.55	200-240 △ /345-415	2.8 △ /1.6Y	16	57	47	-230	290	1×...2110/...2141
	60	0.63	220-275 △ /380-480	3 △ /1.7Y		62	57	-270	320	1×...2114/...2142
• PM7310/P550	50	0.55	200-240 △ /345-415	2.8 △ /1.6Y	16	57	66	-250	250	1×...2110/...2141
	60	0.63	220-275 △ /380-480	3 △ /1.7Y		62	80	-260	250	1×...2114/...2142
• PM7310/P810	50	0.81	200-240 △ /345-415	4 △ /2.3Y	17	57	66	-280	350	1×...2110/...2141
	60	0.94	220-275 △ /380-480	4 △ /2.3Y		62	80	-340	360	1×...2114/...2142
• PM7410/P1100	50	1.1	200-240 △ /345-415	5.4 △ /3.1Y	23	58	87	-300	380	1×...2110/...2141
	60	1.3	220-275 △ /380-480	5.4 △ /3.1Y		62	105	-340	370	1×...2114/...2142
• PM7510/P1500	50	1.5	200-240 △ /345-415	7.5 △ /4.3Y	26	64	120	-310	360	1×...2110/...2141
	60	1.75	220-275 △ /380-480	7.6 △ /4.4Y		68	145	-340	320	1×...2114/...2142
• PM7510/P2200	50	2.2	345-415 △ /600-720	11.4 △ /6.6Y	29	64	120	-310	470	1×...2110/...2141
	60	2.55	380-480 △ /660-720	11.2 △ /6.5Y		68	145	-360	480	1×...2114/...2142
• PM7610/P2200	50	2.2	200-240 △ /345-415	11.4 △ /6.6Y	32	65	165	-340	360	1×...2110/...2141
	60	2.55	220-275 △ /380-480	11.2 △ /6.5Y		71	195	-360	315	1×...2114/...2142
• PM7610/P3300	50	3.3	200-240 △ /345-415	13 △ /7.5Y	35	65	165	-340	480	1×...2110/...2141
	60	3.8	220-275 △ /380-480	14.2 △ /8.2Y		71	195	-380	530	1×...2114/...2142

PM7 Series Selection diagram 50/60Hz 3AC Single stage



The performance curves are valid for pumping air at 15°C at the inlet flanges with an air pressure of 1.013mbar and a tolerance of $\pm 10\%$. The total pressure differences are valid up to an intake and ambient temperature of 25°C.



PM7 Series 3ph AC motor Multistage

Selection and ordering data for side channel blowers in vacuum and pressure operation(Multi-stage)

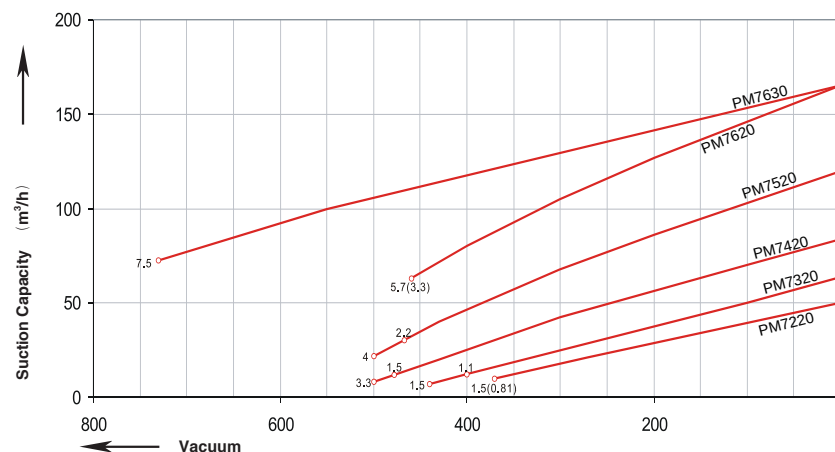
Order No.	MOTOR				Weight	Sound-	Maximum airflow	Maximum vacuum	Maximum pressure	Vacuum relief
• available ex stock	Fre- quency	rated			approx.	pressure				valve
		output	voltage	current						Items X type
	HZ	KW	V	A	kg	dB(A)	m³/h	mbar	mbar	
• PM7220/P810	50	0.81	200-240 △ /345-415	4 △ /2.3Y	24	58	47	-370	490	1×...2110/...2141
	60	0.94	220-275 △ /380-480	4 △ /2.3Y		62	60	-440	480	1×...2114/...2142
• PM7220/P1500	50	1.5	200-240 △ /345-415	7.5 △ /4.3Y	28	58	47	-370	650	1×...2110/...2141
	60	1.75	220-275 △ /380-480	7.6 △ /4.4Y		62	60	-500	740	1×...2114/...2142
• PM7320/P1100	50	1.1	200-240 △ /345-415	5.4 △ /3.1Y	29	59	65	-400	480	1×...2110/...2141
	60	1.3	220-275 △ /380-480	5.4 △ /3.1Y		63	76	-480	480	1×...2114/...2142
• PM7320/P1500	50	1.5	200-240 △ /345-415	7.5 △ /4.3Y	30	59	65	-440	540	1×...2110/...2141
	60	1.75	220-275 △ /380-480	7.6 △ /4.4Y		63	76	-560	600	1×...2114/...2142
• PM7420/P1500	50	1.5	200-240 △ /345-415	7.5 △ /4.3Y	33	61	87	-480	450	1×...2110/...2141
	60	1.75	220-275 △ /380-480	7.6 △ /4.4Y		66	105	-430	410	1×...2114/...2142
• PM7420/P3300	50	3.3	200-240 △ /345-415	13 △ /7.5Y	39	61	87	-500	750	1×...2110/...2141
	60	3.8	220-275 △ /380-480	13.8 △ /8Y		66	105	-510	850	1×...2114/...2142
• PM7520/P2200	50	2.2	200-240 △ /345-415	11.4 △ /6.6Y	40	64	120	-470	460	1×...2110/...2141
	60	2.55	220-275 △ /380-480	11.2 △ /6.5Y		70	145	-500	450	1×...2114/...2142
• PM7520/P4000	50	4	345-415 △	9 △	51	65	120	-500	820	1×...2110/...2141
	60	4.6	380-480 △	9.5 △		71	145	-530	810	1×...2114/...2142
• PM7620/P3300	50	3.3	200-240 △ /345-415	13 △ /7.5Y	48	67	165	-460	500	1×...2110/...2141
	60	3.8	220-275 △ /380-480	14.2 △ /8.2Y		71	195	-480	420	1×...2114/...2142
• PM7620/P5700	50	5.7	345-415 △	12.5 △	65	68	165	-460	740	1×...2110/...2141
	60	6.6	380-480 △	12 △		72	195	-480	840	1×...2114/...2142
• PM7630/P7500	50	7.5	345-415 △	16 △	86	72	170	-730	1040	1×...2110/...2141
	60	8.6	380-480 △	16 △		76	200	-700	1040	1×...2114/...2142

PM7 Series Selection diagram 50/60Hz 3AC Multistage

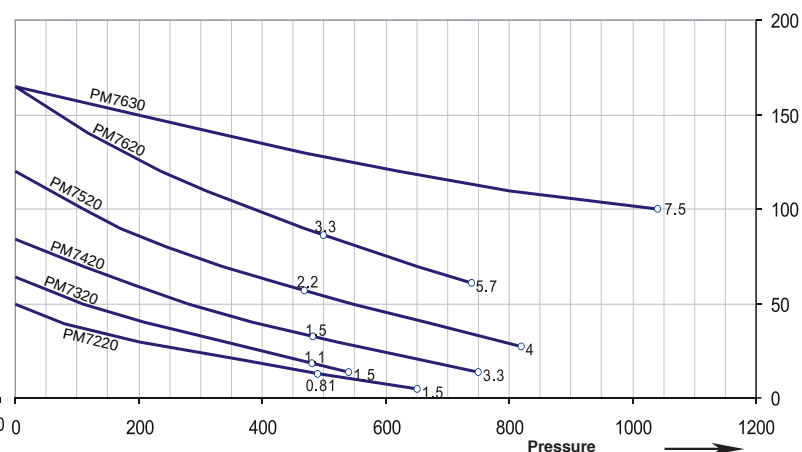


The performance curves are valid for pumping air at 15°C at the inlet flanges with an air pressure of 1.013mbar and a tolerance of $\pm 10\%$. The total pressure differences are valid up to an intake and ambient temperature of 25°C.

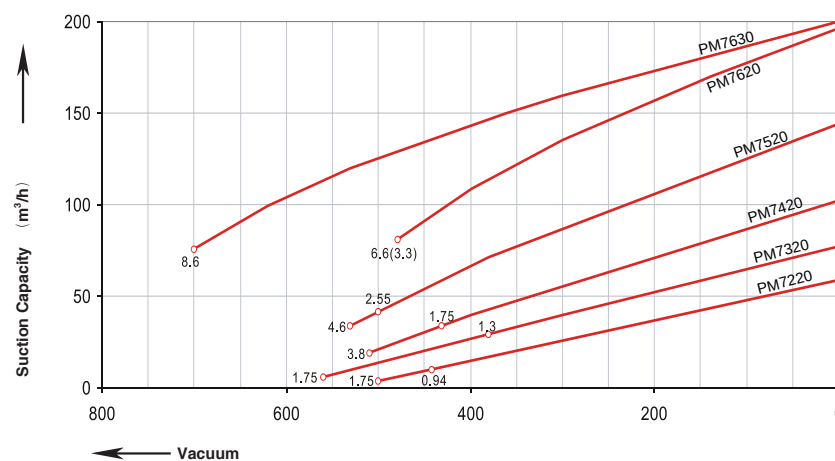
Vacuum Selection diagram 50Hz



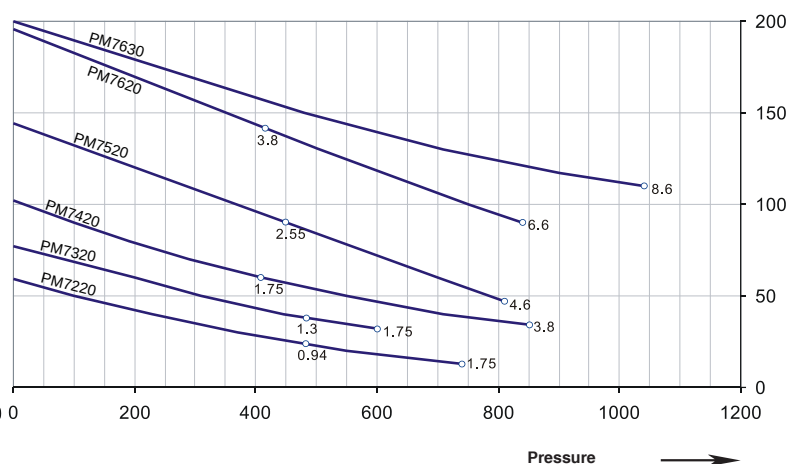
Compressor Selection Diagram 50Hz



Vacuum Selection diagram 60Hz



Compressor Selection Diagram 60Hz



Dimension

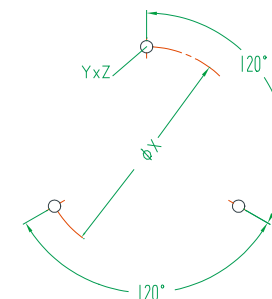
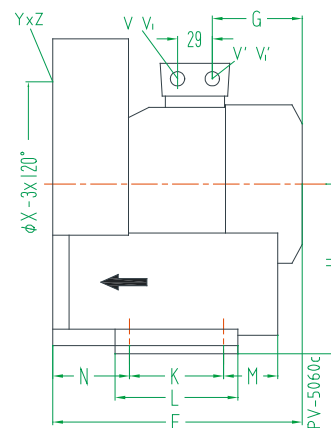
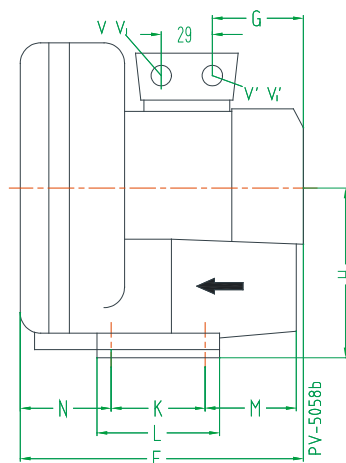
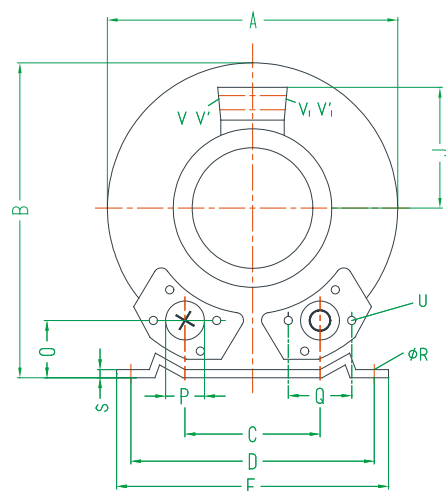
Dimension drawings

PM1 series _____ 32-40

PM7 series _____ 41-42

Dimensions for side channel blowers PM1210.,PM1230.,PM1310.,PM1330.(mm)

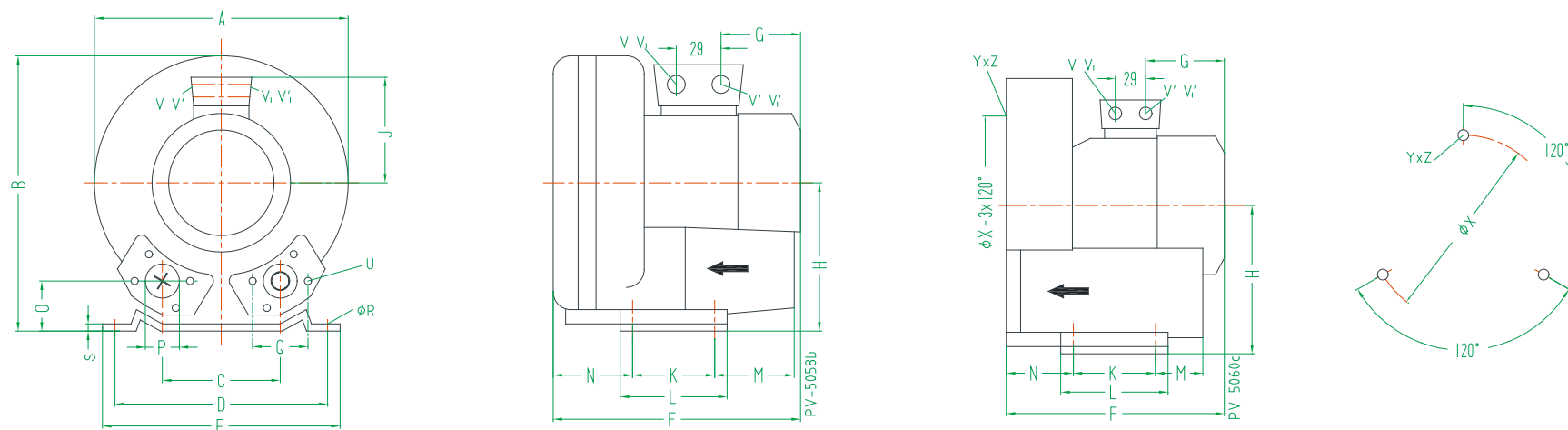
PM1210./PM1230./PM1310./PM1330.



Type	Phases																						X-Holes					Ø
		A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	Q	ØR	S	U	V ₍₁₋₎	V ₍₁₋₎	V ₍₃₋₎	V ₍₃₋₎	YxZ			
PM1210/P250-1	3~	246	247	90	205	230	219	92	128	101	83	108	75	71	39	G1 _{1/4} (15tief-deep)	64	10	2.5	M6x17	-	-	M25x1.5	M16x1.5	M6x15	0°/120°/240°	140	
PM1210/P370-V	1~						256	135		111											M16x1.5	M25x1.5	-	-				
PM1210/P370	3~																				-	-	M25x1.5	M16x1.5				
PM1210/P370-1	1~																				M16x1.5	M25x1.5	-	-				
PM1230/P250	3~						242	102		101				82							-	-	M25x1.5	M16x1.5				
PM1230/P370	3~						267	135		111											-	-						
PM1230/P700	3~																				-	-						
PM1230/P370-V	1~																				M16x1.5	M25x1.5	-	-				
PM1230/P370-1	1~																						-	-				
PM1310/P550	3~	268	272	93			260		141				82	69	41						-	-	M25x1.5	M16x1.5			160	
PM1310/P700	3~																				-	-						
PM1310/P550-1	1~																				M25x1.5	M16x1.5	-	-				
PM1310/P700-1	1~																						-	-				
PM1330/P550	3~						276							85							-	-	M25x1.5	M16x1.5				
PM1330/P700	3~																				-	-						
PM1330/P700-1	1~																				M25x1.5	M16x1.5	-	-				

Dimensions for side channel blowers PM1410.,PM1430.,PM1490.(mm)

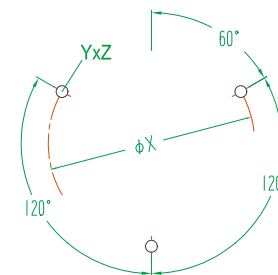
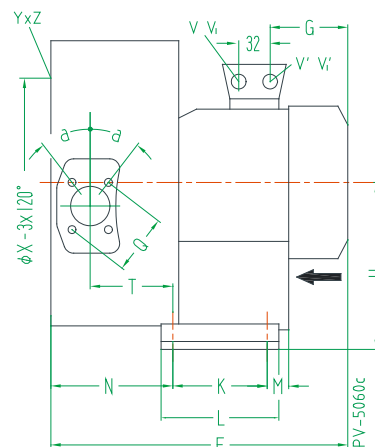
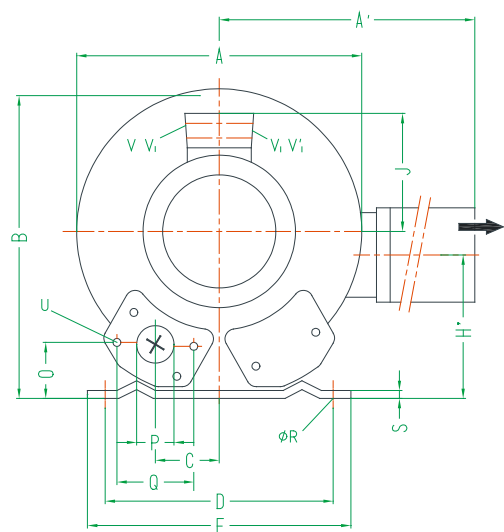
PM1410./PM1430./PM1490.



Type	Phases																									X-Holes	ØX
型号	相位	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	Q	ØR	S	U	V ₍₁₋₎	V' ₍₁₋₎	V ₍₃₋₎	V' ₍₃₋₎	YxZ		
PM1410/P800-1	1~	286	302	115	225	255	294	160	154	120	95	130	70	75	46	G1½(15 tief-deep)	72	12	3	M6x19	M16x1.5	M25x1.5	-	-			174
PM1410/P1100-1	1~																						-	-			
PM1410/P1100-V	1~																										
PM1410/P700	3~						269	135		111											-	-	M25x1.5	M16x1.5			
PM1410/P850	3~						292	160		120											-	-					
PM1410/P1300	3~																				-	-					
PM1430/P800-1	1~						311														M16x1.5	M25x1.5	-	-			ØX
PM1430/P1100-1	1~																						-	-			
PM1430/P700	3~						288	135		111											-	-	M25x1.5	M16x1.5			
PM1430/P850	3~						311	160		120											-	-					
PM1430/P1300	3~																				-	-					
PM1430/P1100-V	1~																				M16x1.5	M25x1.5	-	-			
PM1490/P500-1	1~						269	135		111													-	-			
PM1490/P550-B	1~																						-	-			
PM1490/P1100-V	1~						311	160		120													-	-			
PM1490/P600	3~																				-	-	M25x1.5	M16x1.5			

Dimensions for side channel blowers PM1220.,PM1320.,PM1420.(mm)

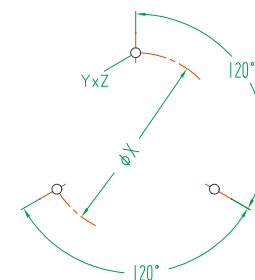
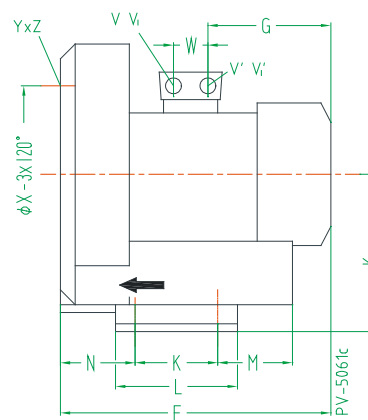
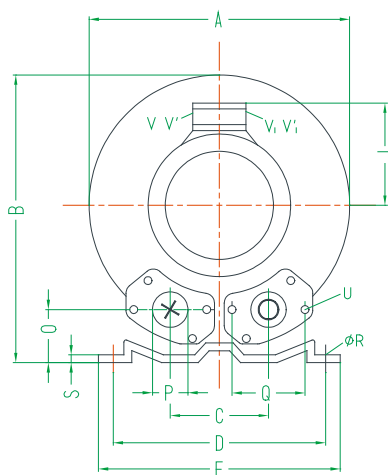
PM1220./PM1320./PM1420



Type	Phases																											X-Holes			
型号	相位	A	A'	B	C	D	E	F	G	H	H'	J	K	L	M	N	O	P	Q	øR	S	T	U	V _{I(1-)}	V' _{I(1-)}	V _{I(3-)}	V' _{I(3-)}		α	øX	YxZ
PM1220/P700	3~	284	316	270	45	205	230	316	135	128	106	111	83	108	75	130	39	G1 _{1/4} (15 _{lef} -deep)	64	10	2.5	88	M6x17	-	-	M25x1.5	M16x1.5	27°	140	M6x15	51°/171°/291°
PM1320/P1300	3~	293	324	286	47			354	160	141	114	120			82	138	41					92		-	-				160		
PM1320/P1100-1	1~																						M25x1.5	M16x1.5	-	-					
PM1420/P1600	3~	322	324	315	58	225	255	401	191	154	153	128	95	130	73	151	4 5	G1 _{1/2} (15 _{lef} -deep)	72	12	3	104	M6x19	-	-	M25x1.5	M16x1.5	28°	174		
PM1420/P2200	3~																						-	-							
PM1420/P1500-1	1~																						M16x1.5	M25x1.5	-	-					
PM1420/P1500-V	1~																									-	-				

Dimensions for side channel blowers PM1510.,PM1530.,PM1590.(mm)

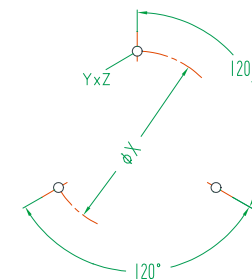
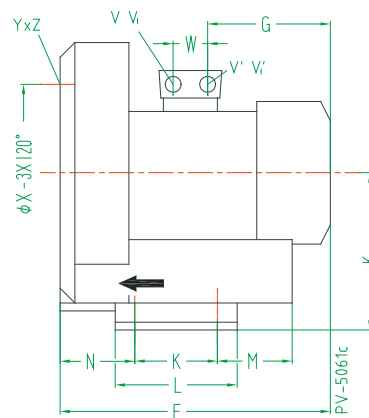
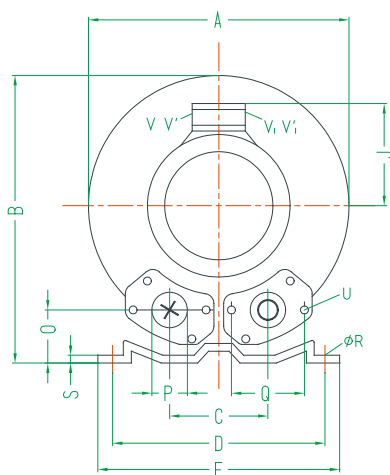
PM1510./PM1530./PM1590.



Type	Phases																									X-Holes		
型号	相位	A	B	C	D	E	F	G	H	J	K	L	M	N	O	ØP	Q	ØR	S	U	V _(1~)	V' _(1~)	V _(3~)	V' _(3~)	YxZ		ØX	W
PM1510/P1100-1	1~	334	337	120	260	295	314	160	175	120	115	155	96	87	48	55	83	14	4	M8x17	M16x1.5	M25x1.5	-	-	M8x20	0°/120°/240°	200	29
PM1510/P1500-1	1~						345	191		128													-	-				
PM1510/P1500-V	1~																						-	-				
PM1510/P850	3~						314	160		120											-	-	M25x1.5	M16x1.5				
PM1510/P1300	3~																				-	-						
PM1510/P1600	3~						346	191		128											-	-						
PM1510/P2200	3~																				-	-						
PM1530/P1100-1	1~						334	160		120											M16x1.5	M25x1.5	-	-				
PM1530/P1500-1	1~						365	191		128													-	-				
PM1530/P850	3~						334	160		120											-	-	M25x1.5	M16x1.5				
PM1530/P1300	3~																				-	-						
PM1530/P1600	3~						365	191		128											-	-						
PM1530/P2200	3~																				-	-						
PM1530/P1500-V	1~																				M16x1.5	M25x1.5	-	-				
PM1590/P1200-1	1~																						-	-				
PM1590/P1750-B	1~																						-	-				
PM1590/P1100	3~																				-	-	M25x1.5	M16x1.5				

Dimensions for side channel blowers PM1610.,PM1630.,PM1710,2RB730.,2RB790.(mm)

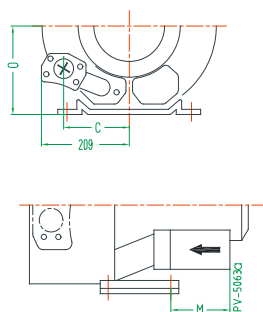
PM1610./PM1630./PM1710./PM1730./PM1790



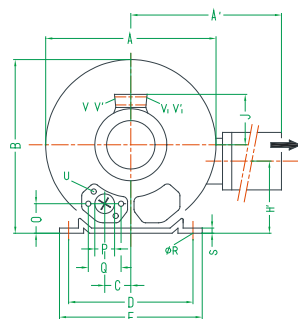
Type	Phases																								X-Holes					øX		W
型号	相位	A	B	C	D	E	F	G	H	J	K	L	M	N	O	øP	Q	øR	S	U	V(1~)	V'1(1~)	V1(3~)	V'1(3~)								
PM1610/P1600	3~	360	366	122	284	325	354	191	192	128	140	180	64	74	56	56	93	13	4.5	M8x17	-	-	M25x1.5	M16x1.5	M8x20	0°/120°/240°	226	29				
PM1610/P2200	3~																				-	-										
PM1610/P3000	3~						385	188		135											M32x1.5	M32x1.5	M32x1.5	M32x1.5				42				
PM1630/P1600	3~						372	191		128											-	-	M25x1.5	M16x1.5				29				
PM1630/P2200	3~																				-	-										
PM1630/P3000	3~						403	188		135											M32x1.5	M32x1.5	M32x1.5	M32x1.5				42				
PM1710/P2200-1	1~	382	384	125	290		377	191	197	128			84	109	54	55	83	15			M25x1.5	M16x1.5	-	-	M10x20		240	29				
PM1710/P1600	3~																				-	-	M25x1.5	M16x1.5								
PM1710/P2200	3~																				-	-	-	-								
PM1710/P3000	3~						409	188		135											M32x1.5	M32x1.5	M32x1.5	M32x1.5				42				
PM1710/P4000	3~						432	209		148																						
PM1730/P1600	3~						387	191		128											M25x1.5	M16x1.5	-	-				29				
PM1730/P2200	3~																						-	-								
PM1730/P3000	3~						419	189		135											M32x1.5	M32x1.5	M32x1.5	M32x1.5				42				
PM1730/P4000	3~						432	209		148																						
PM1790/P2200	3~						377	185		128											-	-	M25x1.5	M16x1.5				29				

Dimensions for side channel blowers PM1520.,PM1720.,PM1740.(mm)

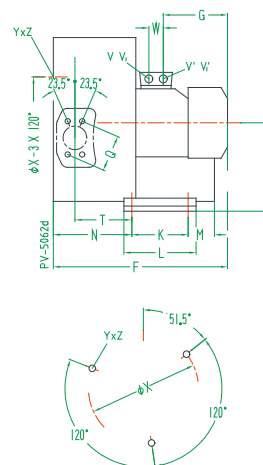
PM1720.-...4.
-...5.



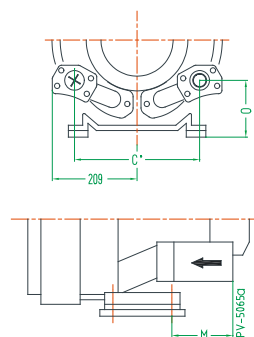
PM1520.-...4.
-...5.



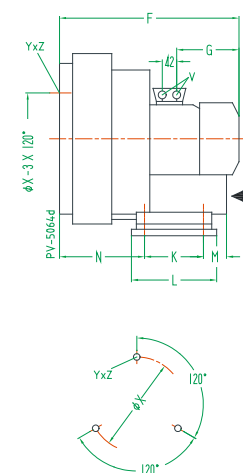
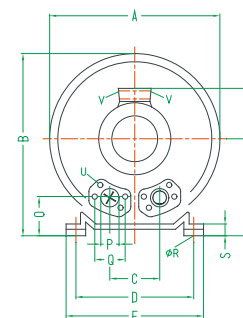
PM1720.-...1.
-...2.
-...3.



PM1740.-...4.
-...5.



PM1740.-...3.

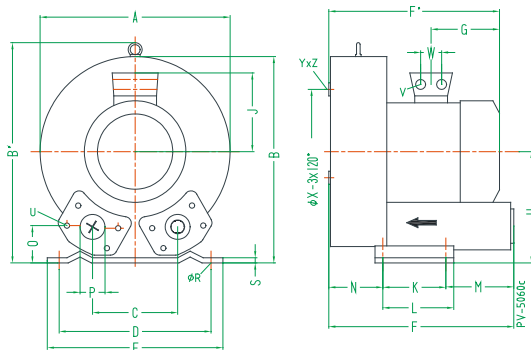
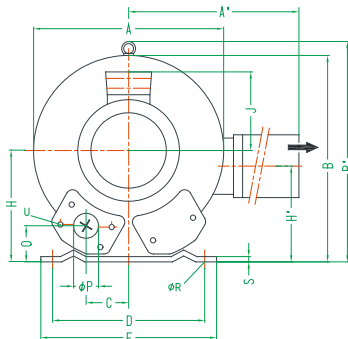


Type	Phases																													X-Holes			
型号	相位	A	A'	B	C	D	E	F	G	H	H'	J	K	L	M	N	O	øP	Q	øR	S	T	U	V	V'	V _I	V' _I	øX	YxZ				
PM1520/P3000	3~	372	411	371	60	260	295	465	190	175	144	135	115	155	98	171	48	55	83	14	4	116	M8x17	M32x1.5	M32x1.5	M32x1.5	M32x1.5	200	M8x20	51.5°/171.5°/291.5°			
PM1520/P4000	3~							499	224																								
PM1720/P2200	3~	426	426	410	63	290	325	473	191	197	162	128	140	180	84	205	53			15	4.5	130		M25x1.5	M16x1.5	-	-	240	M10x20				
PM1720/P3000	3~							496	188			135												M32x1.5	M32x1.5	M32x1.5	M32x1.5						
PM1720/P4300	3~							526	209			148																					
PM1720/P5500	3~				154	290		571	226			167			200																		
PM1720/P7500	3~																																

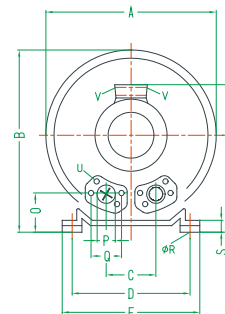
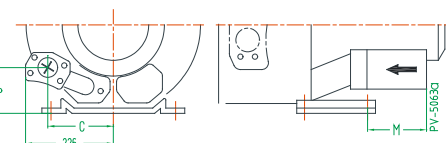
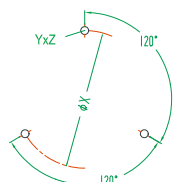
Type	Phases																									X-Holes
型号	相位	A	B	C	C'	D	E	F	G	H	J	K	L	M	N	O	øP	Q	øR	S	U	V	øX	YxZ		
PM1740/P4000	3~	420	410	125	-	290	325	526	209	197	148	140	180	84	205	153	55	83	15	64.5	M8x17	4 x M32x1.5	240	M10x20	0°/120°/240°	
PM1740/P5500	3~			-	308			571	226	257	167			200												
PM1740/P7500	3~			-																						

Dimensions for side channel blowers PM1810.,PM1820.,PM1830,PM1840.(mm)

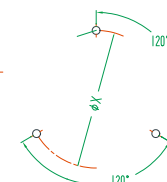
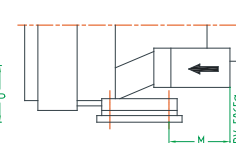
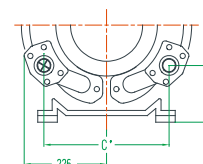
PM1810./PM1830.


PM1820.-...1.
-...2.


2RB 840.-...2.


PM1820.-...3.
-...4.


PM1840.-...3.

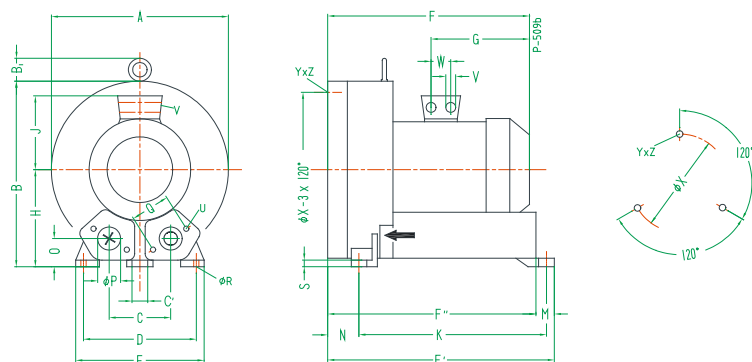


Type 型号	Phases 相位	A	A'	B	B'	C	D	E	F	F'	G	H	H'	J	K	L	M	N	N'	O	øP	øR	S	V	W	øX	YxZ	X—Holes
PM1810/P4000	3~	451	-	461	509	152	356	394	433	450	230	240	-	148	170	217	140	124	-	65	G2½	15	6	4 x M32x1.5	42	286	M12x20	
PM1810/P5500	3~		-							477	226		-	167					-									
PM1810/P7500	3~		-										-						-									
PM1820/P5500	3~	500	549	490	509	76			545	589			199				-	236	84									51.4°/120°/240°
PM1820/P7500	3~																-											
PM1820/11P	3~									694	318			197			-	212		105					4 x M40x1.5	54		
PM1820/15P	3~																-											
PM1830/P4000	3~	451	-	461	509	152			449	466	230		-	148			139	164	-	65					4 x M32x1.5	42		0°/120°/240°
PM1830/P5500	3~		-							492	247		-	167					-									
PM1830/P7500	3~		-										-						-									

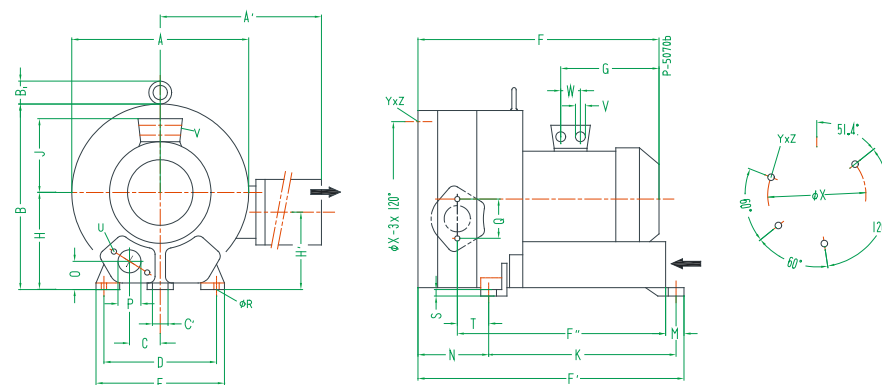
Type	Phases																					X-Holes		
型号	相位	A	B	C	C'	D	E	F	G	H	J	K	L	M	N	O	øP	øR	S	V	W		øX	YxZ
PM1840/P7500	3~	500	550	152	-	356	394	589	247	300	167	170	217	-	236	125	G2½	15	66	4×M32×1.5	42	286	M12×20	0°/120°/240°
PM1840/11P	3~			-	336			694	318		197			312	212	165				4×M40×1.5	54			

Dimensions for side channel blowers PM1910.,PM1920.,PM1930.(mm)

PM1910./PM1930.



PM1920.

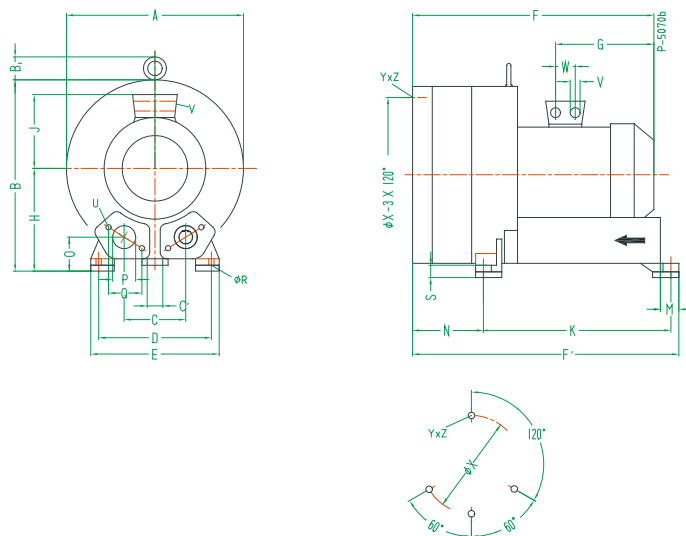


Type	Phases																												X-Holes
型号	相位	A	B	B ₁	C	C'	D	E	F	F'	F''	G	H	J	K	M	N	O	ØP	Q	ØR	S	U	V	W	ØX	YxZ		
PM1910/P8500	3~	550	569	55	207	15	360	415	525	644	605	268	300	167	533	39	89	92	100	150	15	21	M12x30	4 x M32x1.5	42	490	M12x30	0°/120°/240°	
PM1910/12P5	3~								611			345		197										4 x M40x1.5	54				
PM1910/18P5	3~																												
PM1930/P8500	3~								563	682	643	268		167			127							4 x M32x1.5	42				
PM1930/12P5	3~								649			345		197										4 x M40x1.5	54				
PM1930/18P5	3~																												

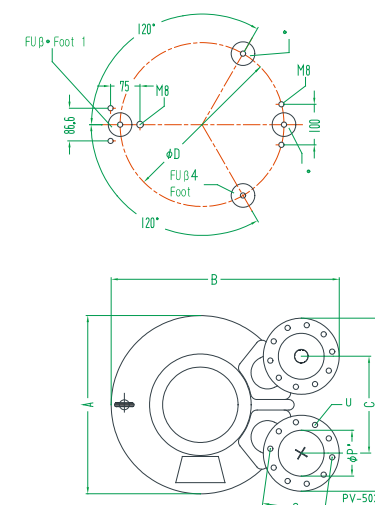
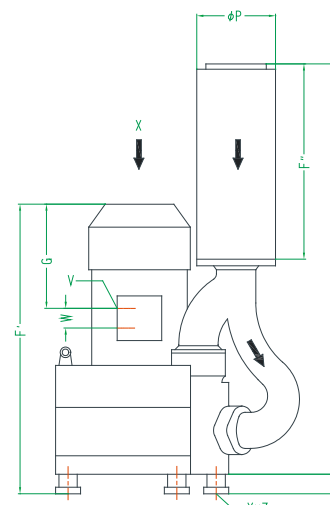
Type	Phases																													X-Holes		
型号	相位	A	A'	B	B ₁	C	C'	D	E	F	F'	F''	G	H	H'	J	K	M	N	O	øP	Q	øR	S	T	U	V	W	øX		YxZ	
PM1920/12P5	3~	615	780	607	16	103.5	15	360	415	752	786	634	345	300	234	197	533	39	230	92	100	150	15	21	117	M12x30	4 x M40x1.5	54	490		M12x30	51.4°/120°/240°
PM1920/16P5	3~																															
PM1920/20P	3~																															
PM1920/25P	3~									812																						

Dimensions for side channel blowers PM1940.,PM1943.(mm)

PM1940.



PM1943.

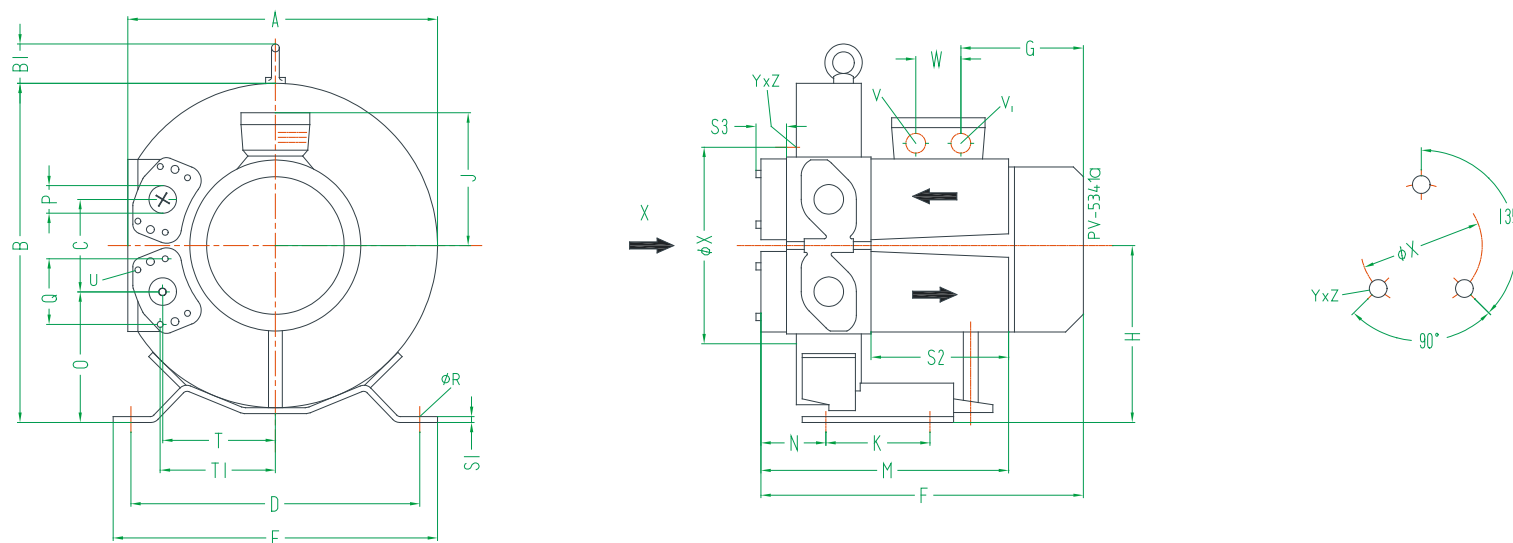


Type	Phases																										X-Holes
型号	相位	A	B	B ₁	C	C'	D	E	F	F'	G	H	J	K	M	N	O	ØP	Q	ØR	S	U	V	W	ØX	YxZ	
PM1940/15P	3~	615	657	16	207	15	360	415	752	786	345	350	197	533	39	280	142	100	140	15	71	M12x35	4xM40x1.5	54	490	M12x30	120°/60°/60°
PM1940/20P	3~																										
PM1940/25P	3~								812																		

Type	Phases																										
型号	相位	A	B	C	D	E	F	F'	F''	G	P	P'	Q	S	U	V	W	YxZ									
PM1943/15P ¹⁾	3~	615	723	307	490	526	1201	848	578	291	219	135	201	58	M8x40	4 x M40x1.5	54	M12x10.5									
PM1943/20P ¹⁾	3~																										
PM1943/25P ¹⁾	3~							908		351																	

Dimensions for side channel blowers PM7210.,PM7310.,PM7410,PM7510.,PM7610.(mm)

PM7210./PM7310./PM7410./PM7510./PM7610.

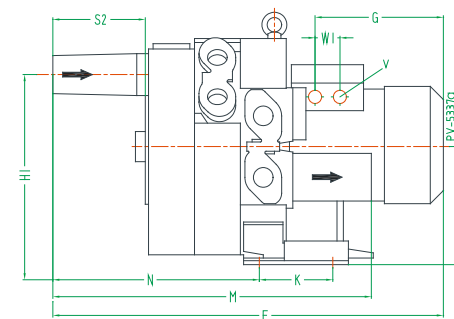
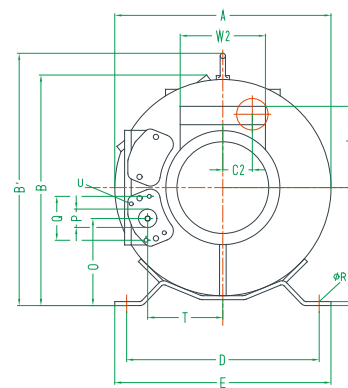
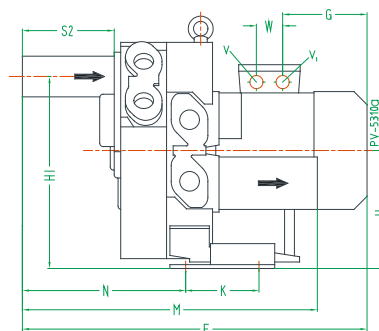
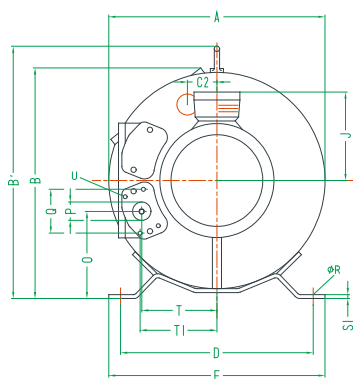


Type 型号	Phases 相位	A	B	B ₁	C	D	E	F	G	H	J	K	M	N	O	P	Q	ØR	S ₁	S ₂	S ₃	T	T ₁	U	V	V ₁	W	ØX	YxZ
PM7210/P550	3~	294	319	39	87	260	298	293	129	167	111	105	252	65	124	G11/4(18 deep)	64	14	4	140	31	105	107	M6x17	M25x1.5	M16x1.5	32	153	M6x15
PM7210/P550-1	1~																												
PM7310/P550	3~	313	339		94	290	325	295	153	177	120		256	67	130							114	116						
PM7310/P810	3~										120																		
PM7310/P940-1	1~																												
PM7310/P940-V	1~																												
PM7410/P1100	3~	346	375	38	103	315	350	321		195		130	260	66	143							125	127					167	
PM7410/P1100-1	1~																												
PM7410/P1300-1	1~																												
PM7510/P1500	3~	368	395	39	114	328	363	361	185	205	128	152	265	68	148			5				137	138					192	M8x15
PM7510/P2200	3~																												
PM7610/P2200	3~	418	455		127	371	406	364		235			271	72	172							153	155					228	
PM7610/P3300	3~							390	211																				

Dimensions for side channel blowers PM7220.,PM7320.,PM7420.,PM7520 PM7620.,PM7630.(mm)

PM7220./PM7320./PM7420./PM7520./PM7620./PM7630.

PM7630.



Type	Phases																												
型号	相位	A	B	B'	C ₂	D	E	F	G	H	H ₁	J	K	M	N	O	P	Q	ØR	S ₁	S ₂	S ₃	T	T ₁	U	V	V ₁	W	
PM7220/P810	3~	313	326	359	43	260	298	469	130	167	272	111	105	426	241	123	G1¼(18 deep)	64	14	4	140	31	105	107	M6x17	M25x1.5	M16x1.5	32	
PM7220/P1500	3~							525	185			128																	
PM7220/P1500-1	1~																												
PM7320/P1100	3~	331	345	380	47	290	325	390	153	177	291	120		431	243	130							114	116					
PM7320/P1500	3~							421	185			128																	
PM7320/P1500-1	1~																												
PM7420/P1500	3~	363	377	414	52	315	350	529	180	195	319	128	130	436		143							125	127					
PM7420/P3300	3~							554	211																				
PM7520/P2200	3~	387	402	435	57	328	363	549	185	206	343	128	152	453	256	148				5			137	138				42	
PM7520/P4000	3~							603	211			148														2xM32x1.5		32	
PM7620/P3300	3~	442	457	495	63	372	406	578		236	389	128		458	259	173							153	155		M25x1.5		42	
PM7620/P5700	3~							643	248			148														2xM32x1.5			

Type																								
型号	A	B	B'	C ₂	D	E	F	G	H	H ₁	K	M	N	O	P	Q	øR	S ₁	S ₂	T	U	V	W ₁	W ₂
PM7630/P7500	442	402	492	63	371	406	717	274	236	389	152	539	336	172	G1 _{1/4} (15 deep)	64	14	5	146	153	M6x17	M32x1.5	42	120

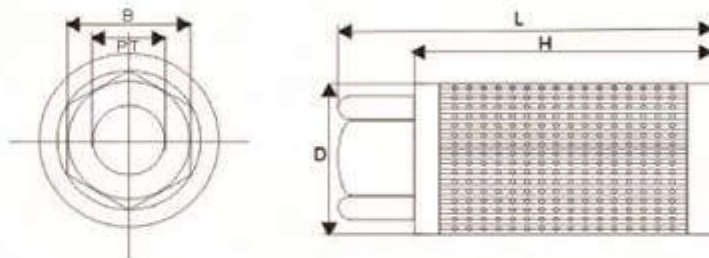
Accessories

Accessories for PM1/PM7 Series pumps/compressors

filters, flanges and valves

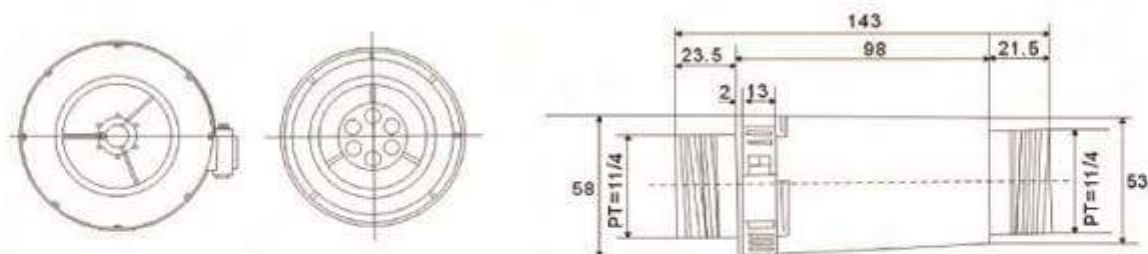
Accessory

Air Filter



型号	PT	D (mm)	L (mm)	H (mm)	B (mm)	Filtration precision	Flow (l/min)	Weight (Kg)
MF-08	1	58	170	155	42	100	110	0.20
MF-10	1 1/4	71	186	170	54	100	210	0.35
MF-12	1 1/2	85	196	182	65	100	285	0.49
MF-16	2	103	215	202	75	100	395	0.65
MF-20	2 1/2	148	274	252	97	100	750	1.20
MF-32	4	208	380	357	142	100	1000	2.45

Pressure Relief Valve

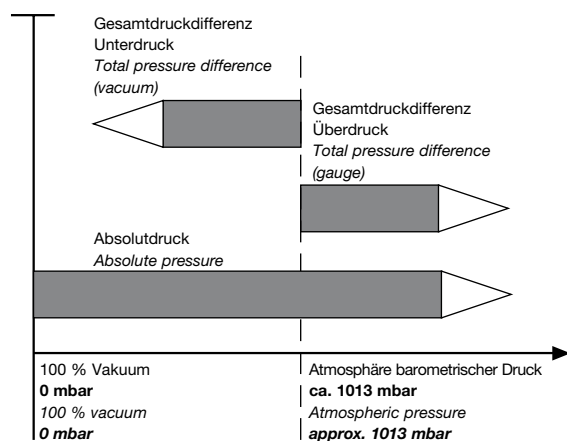


Model	PT	L	Specification
RV-01	1 1/4"	143	0-3000mmAq
RV-02	1 1/4"	143	0-6000mmAq

Conversion tables

Pressure

Beginning units	Conversion factor	Resulting units
Pa	0,01	mbar
hPa	1,0	mbar
kPa	10,0	mbar
mm H ₂ O	0,098	mbar
m H ₂ O	98,07	mbar
at	980,7	mbar
inch H₂O	2,491	mbar
PSI lpf/in ²	68,948	mbar
mbar	100	Pa
mbar	10,2	mm H ₂ O
mbar	10,2 x 10 ⁻³	m H ₂ O
mbar	1,02 x 10 ⁻³	at
mbar	0,4016	inch H ₂ O
mbar	14,505 x 10 ⁻³	PSI lpf/in ²



Suction capacity

Beginning units	Conversion factor	Resulting units
l/min	0,06	m ³ /h
gal/min	0,227	m ³ /h
ft ³ /min	1,699	m ³ /h
m ³ /h	16,667	l/min
m ³ /h	4,403	gal/min
m ³ /h	0,588	ft ³ /min

Power

Beginning units	Conversion factor	Resulting units
hp	0,746	kW
Btu/h	293,1	kW
kW	1,341	hp
kW	3,41 x 10 ⁻³	Btu/h

Mass

Beginning units	Conversion factor	Resulting units
lbm	0,454	kg
kg	2,205	lbm

Length

Beginning units	Conversion factor	Resulting units
in.	25,4	mm
in.	0,0254	m
ft	305	mm
ft	0,305	m
m	39,37	in.
m	3,28	f

Temperature conversion

from	to	
°F	K	$T [K] = \frac{t [°F] + 459,67}{1,8}$
°F	°C	$t [°C] = \frac{t [°F] - 32}{1,8}$
K	°F	$t [°F] = 1,8 \times T [K] - 459,67$
°C	°F	$t [°F] = 1,8 \times t [°C] + 32$



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