



Oil Lubricated Screw Air Compressor

(PM Motor & Variable Speed Drive)

3HP - 340HP

DIRECT DRIVE 1:1 TRANSMISSION



Screw Air
Compressor

Why Screw Air Compressor with PM Motor & Variable Speed Drive ?

iPM Technology uses a Permanent Magnet Motor, VSD, and Direct Drive to deliver high efficiency and up to 40–50% energy savings. It produces air exactly as needed, cutting wastage.

Deep Pneumatics controller, pressure sensor and inverter maintains steady generation of compressed air FAD & constant pressure with no drops and no energy wastage.

IPM Series offers high electrical efficiency at variable loads with soft start, reducing electrical stress and making these screw air compressors more durable.

Smart touch controller ensures real time data, alerts for predictive maintenance, diagnostic analysis and highest availability of compressor

With the available products from IPM & 2S PM series ensures highest energy efficiency with improved operations delivering more compressed air with lower power requirements. With lower energy requirement our screw air compressors ensures compliance with our commitment to care for the environment.

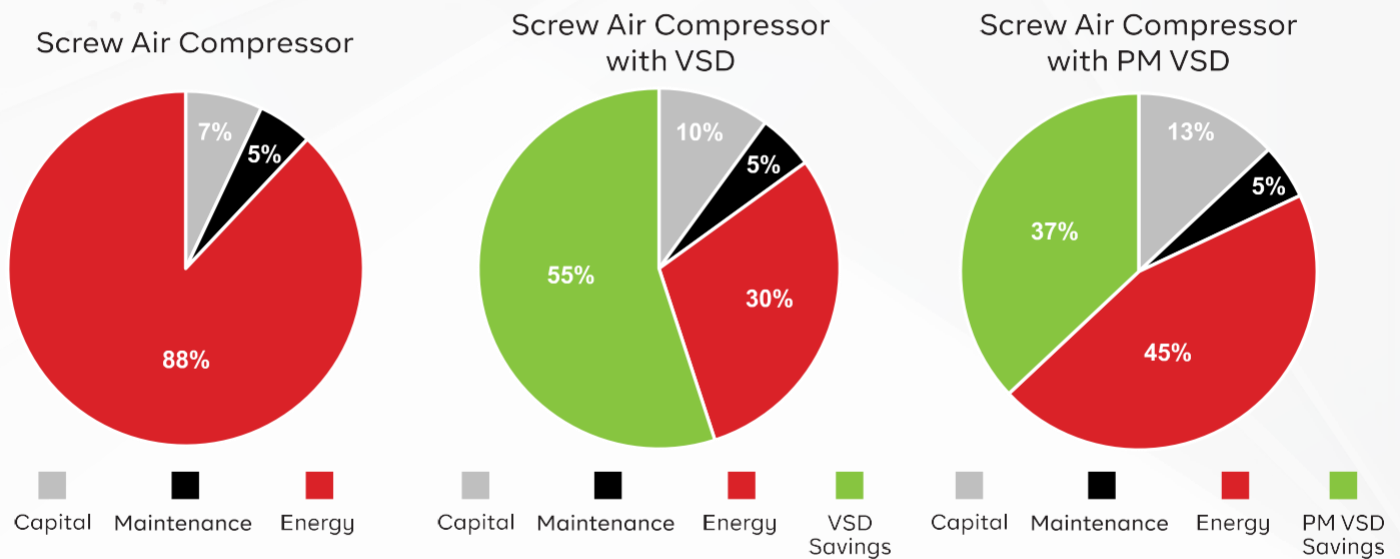


<i>Unique Features</i>	<i>Advantages</i>	<i>Customer Benefits</i>
Superior Energy Efficient Screw Element	Improved FAD & Performance	Lower Operating Cost
Premium Efficiency Permanent Magnet Motor	Higher Electrical Efficiency	Lower Running Cost
Direct Drive Transmission	Lower Transmission Losses	Lower Running & Maintenance Cost
High Efficiency Air Oil Separator	Reduced Residual Oil Content	Lower Pressure Drop, Lower Energy Requirement
Latest Generation Controller with User Friendly Interphase	Ease of Communication & Operation	Ease of Monitoring & Predictive Maintenance Planning
Built In Inverter Drive	Generation as per consumption	Energy Savings
Generous Size Of Combi-cooler	Lower Operating Temperature	Improved Life Of Consumables
Care for environment	Lower Energy Consumption	Lower Carbon Emission Contribution

Determining Your Compressor's True Life Cycle Cost

Purchasing a compressor is an investment. How that investment continues to perform over its life, directly impacts your bottom line.

Total Life Cycle Cost

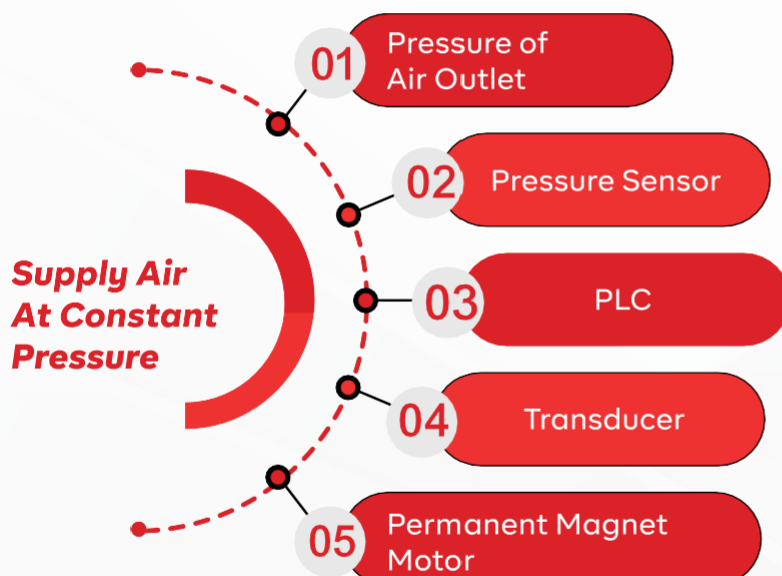
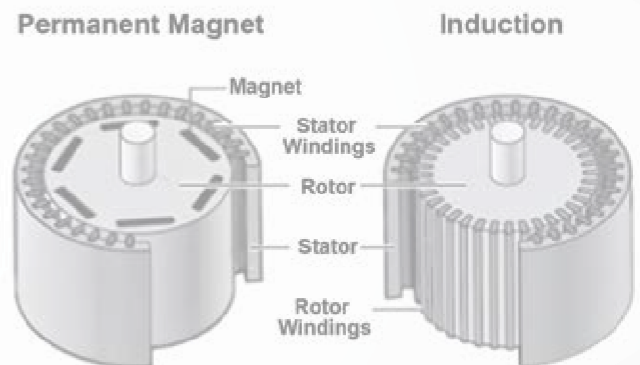


Working principle : iPM motor

Permanent magnets are housed inside of the rotor (hence the name interior permanent magnet motor).

Electrical current flows in a rotating motion in the stator windings, creating a rotating magnetic field.

The permanent magnets inside the rotor are attracted and start rotating with the magnetic field.



The pressure sensor detects pressure of the air outlet and sends signal to PLC. PLC controls outputs frequency of the transducer according to pressure of the pressure sensor. When the pressure is high, decrease the frequency. When the pressure is low, increase the frequency to keep pressure constant.

The compressor controls speed of the permanent magnet motor via transducer, so it forms a variable speed and closed-loop control system, realizes air supply at constant pressure, produces air according to demand, stops production when air is not used, starts production by soft start when air is used; thus, it avoids idle consumption thoroughly.

Technical Parameters Of iPM Series Screw Air Compressor ATD Package

Model	Motor Power		Capacity (FAD)	Working Pressure	Air Receiver	Dimensions (L x B x H)	Gross Weight	Noise	Air Outlet
	KW	HP	CFM	BAR	LTR	MM	KG	dB(A)	DN
DP3PM ATD	2.2	3	3 ~ 9 2 ~ 8 2 ~ 7	7 8 10	200	1660 x 850 x 1370	320	65	15
DP5PM ATD	3.7	5	5 ~ 17 5 ~ 15 4 ~ 13	7 8 10	200	1660 x 850 x 1371	330	65	15
DP7.5PM ATD	5.5	7.5	8 ~ 27 8 ~ 25 6 ~ 22	7 8 10	200	1660 x 850 x 1372	340	65	15
DP10PM ATD	7.5	10	13 ~ 42 12 ~ 40 10 ~ 35 9 ~ 30	7 8 10 13	300	2100 x 1000 x 1450	580	67	15
DP15PM ATD	11	15	20 ~ 67 19 ~ 64 17 ~ 56 13 ~ 45	7 8 10 13	500	2150 x 1120 x 1850	725	67	20
DP20PM ATD	15	20	27 ~ 91 26 ~ 86 23 ~ 78 19 ~ 64	7 8 10 13	500	2150X1120X1850	750	67	20

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Model	Motor Power		Capacity (FAD)	Working Pressure	Air Receiver	Dimensions (L x B x H)	Gross Weight	Noise	Air Outlet
	KW	HP	CFM	BAR	LTR	MM	KG	dB(A)	DN
DP3PM AT	2.2	3	3 ~ 9 2 ~ 8 2 ~ 7	7 8 10	120	1075 x 540 x 1110	265	65	15
DP5PM AT	3.7	5	5 ~ 17 5 ~ 15 4 ~ 13	7 8 10	120	1075 x 540 x 1110	275	65	15
DP7.5PM AT	5.5	7.5	8 ~ 27 8 ~ 25 6 ~ 22	7 8 10	120	1075 x 540 x 1110	285	65	15
DP10PM AT	7.5	10	13 ~ 42 12 ~ 40 10 ~ 35 9 ~ 30	7 8 10 13	300	2100 x 850 x 1450	430	67	15
DP15PM AT	11	15	20 ~ 67 19 ~ 64 17 ~ 56 13 ~ 45	7 8 10 13	500	2150 x 950 x 1950	630	67	20
DP20PM AT	15	20	27 ~ 91 26 ~ 86 23 ~ 78 19 ~ 64	7 8 10 13	500	2150 x 950 x 1950	650	67	20
DP25PM AT	18.5	25	34 ~ 115 33 ~ 110 28 ~ 95 25 ~ 84	7 8 10 13	500	2150 x 950 x 1950	700	68	25
DP30PM AT	22	30	44 ~ 148 43 ~ 142 36 ~ 120 31 ~ 105	7 8 10 13	500	2150 x 950 x 1950	730	68	25

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Model	Motor Power		Capacity (FAD)	Working Pressure	Dimensions (L x B x H)	Gross Weight	Noise	Air Outlet
	KW	HP	CFM	BAR	MM	KG	dB(A)	DN
DP3PM	2.2	3	3 ~ 9 2 ~ 8 2 ~ 7	7 8 10	860 x 540 x 740	185	65	15
DP5PM	3.7	5	5 ~ 17 5 ~ 15 4 ~ 13	7 8 10	860 x 540 x 740	195	65	15
DP7.5PM	5.5	7.5	8 ~ 27 8 ~ 25 6 ~ 22	7 8 10	860 x 540 x 740	205	65	15
DP10PM	7.5	10	13 ~ 42 12 ~ 40 10 ~ 35 9 ~ 30	7 8 10 13	960 x 750 x 870	280	67	15
DP15PM	11	15	20 ~ 67 19 ~ 64 17 ~ 56 13 ~ 45	7 8 10 13	1160 x 750 x 1090	380	67	20
DP20PM	15	20	27 ~ 91 26 ~ 86 23 ~ 78 19 ~ 64	7 8 10 13	1160 x 750 x 1090	400	67	20
DP25PM	18.5	25	34 ~ 115 33 ~ 110 28 ~ 95 25 ~ 84	7 8 10 13	1380 x 900 x 1160	450	68	25
DP30PM	22	30	44 ~ 148 43 ~ 142 36 ~ 120 31 ~ 105	7 8 10 13	1380 x 900 x 1160	480	68	25
DP40PM	30	40	58 ~ 194 55 ~ 185 46 ~ 155 40 ~ 135	7 8 10 13	1600 x 1050 x 1340	650	70	40
DP50PM	37	50	74 ~ 248 73 ~ 242 64 ~ 215 54 ~ 180	7 8 10 13	1600 x 1050 x 1340	720	70	40
DP60PM	45	60	90 ~ 300 85 ~ 285 73 ~ 245 69 ~ 230	7 8 10 13	1850 x 1150 x 1340	950	72	40
DP75PM	55	75	114 ~ 382 109 ~ 365 97 ~ 325 84 ~ 280	7 8 10 13	1850 x 1270 x 1550	1550	72	63
DP100PM	75	100	151 ~ 505 142 ~ 475 127 ~ 425 112 ~ 375	7 8 10 13	2110 x 1270 x 1550	1850	75	63

Note:

Free Air Delivery (FAD) tested as per ISO 1217:2009

Due to continuous improvement, specifications are subject to change without prior notice

Product image is only for representation



Technical Parameters of iPM Series Screw Air Compressor

Model	Motor Power		Capacity (FAD)	Working Pressure	Dimensions (L x B x H)	Gross Weight	Noise	Air Outlet
	KW	HP	CFM	BAR	MM	KG	dB(A)	DN
DP120PM	90	120	175 ~ 582 165 ~ 550 135 ~ 450 127 ~ 425	7 8 10 13	2110 x 1270 x 1550	2300	75	63
DP150PM	110	150	214 ~ 715 210 ~ 701 183 ~ 610 160 ~ 535	7 8 10 13	2700 x 1720 x 1850	2950	78	80
DP180PM	132	180	258 ~ 860 254 ~ 847 216 ~ 720 174 ~ 580	7 8 10 13	2700 x 1720 x 1850	3150	78	80
DP220PM	160	220	318 ~ 1060 308 ~ 1027 270 ~ 901 237 ~ 790	7 8 10 13	3650 x 2300 x 2200	4550	81	100
DP250PM	185	250	399 ~ 1332 391 ~ 1305 322 ~ 1075 267 ~ 890	7 8 10 13	3650 x 2300 x 2200	4700	81	100
DP340PM	250	340	442 ~ 1475 430 ~ 1435 400 ~ 1335 307 ~ 1025	7 8 10 13	4260 x 2560 x 2200	6800	81	125

Note:

Free Air Delivery (FAD) tested as per ISO 1217:2009

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Technical Parameters of 2S PM Series Screw Air Compressor

Model	Motor Power		Capacity (FAD)	Working Pressure	Dimensions (L x B x H)	Gross Weight	Noise	Air Outlet
	KW	HP	CFM	BAR	MM	KG	dB(A)	DN
DP30 2S PM	22	30	39 ~ 162 39 ~ 159 35 ~ 152 28 ~ 124 21 ~ 95	6 7 8 10 13	1300x980x1220	560	73	40
DP40 2S PM	30	40	60 ~ 240 56 ~ 226 53 ~ 212 39 ~ 166 32 ~ 138	6 7 8 10 13	1400x1100x1450	800	73	40
DP50 2S PM	37	50	77 ~ 318 67 ~ 275 63 ~ 265 56 ~ 222 49 ~ 191	6 7 8 10 13	1400x1100x1450	800	76	40
DP60 2S PM	45	60	95 ~ 378 91 ~ 367 88 ~ 353 67 ~ 275 60 ~ 240	6 7 8 10 13	2100x1440x1650	1500	76	65
DP75 2S PM	55	75	123 ~ 487 116 ~ 470 113 ~ 459 84 ~ 335 71 ~ 212	6 7 8 10 13	2100x1440x1650	1700	80	65
DP100 2S PM	75	100	158 ~ 635 144 ~ 575 134 ~ 547 114 ~ 459 88 ~ 360	6 7 8 10 13	2100x1440x1650	1800	80	65
DP120 2S PM	90	120	194 ~ 777 180 ~ 724 173 ~ 699 144 ~ 583 123 ~ 494	6 7 8 10 13	2450x1700 x1760(A) 2550x1680 x1850(W)	2400 (A) 2700 (W)	80	65 (A) 80 (W)
DP150 2S PM	110	150	229 ~ 918 215 ~ 862 204 ~ 830 176 ~ 706 144 ~ 583	6 7 8 10 13	2600x1900x1890(A) 2550x1680 x1850(W)	2800 (A) 2800 (W)	82	DN80
DP180 2S PM	132	180	286 ~ 1148 254 ~ 1016 240 ~ 971 208 ~ 837 167 ~ 671	6 7 8 10 13	3250x2100x2200(A) 2550x1680x1850(W)	4000 (A) 2800 (W)	82	100 (A) 80 (W)
DP220 2S PM	160	220	339 ~ 1360 310 ~ 1246 310 ~ 1183 270 ~ 1080 229 ~ 918	6 7 8 10 13	3250x2100x2200(A) 3000x2000x2000(W)	4300 (A) 3450 (W)	82	100
DP250 2S PM	185	250	386 ~ 1547 362 ~ 1448 344 ~ 1377 303 ~ 1218 256 ~ 1023	6 7 8 10 13	3550x2300x2300(A) 3000x2000x2000(W)	5500 (A) 4000 (W)	84	125 (A) 100 (W)
DP270 2S PM	200	270	430 ~ 1723 406 ~ 1624 381 ~ 1525 335 ~ 1342 275 ~ 1112	6 7 8 10 13	3550x2300x2300(A) 3000x2000x2000(W)	5800 (A) 4500 (W)	84	125 (A) 100 (W)
DP300 2S PM	220	300	467 ~ 1871 441 ~ 1765 413 ~ 1652 361 ~ 1448 310 ~ 1254	6 7 8 10 13	3550x2300x2300(A) 3600x2200x2200(W)	6300 (A) 6000 (W)	84	125
DP340 2S PM	250	340	515 ~ 2066 490 ~ 1955 469 ~ 1878 406 ~ 1628 357 ~ 1430	6 7 8 10 13	3760x2260x2200(A) 3600x2200x2200(W)	7000 (A) 6500 (W)	84	125

Our Widespread Sales Network:

