

OPPAIR

PROFESSIONAL AIR COMPRESSOR MANUFACTURER

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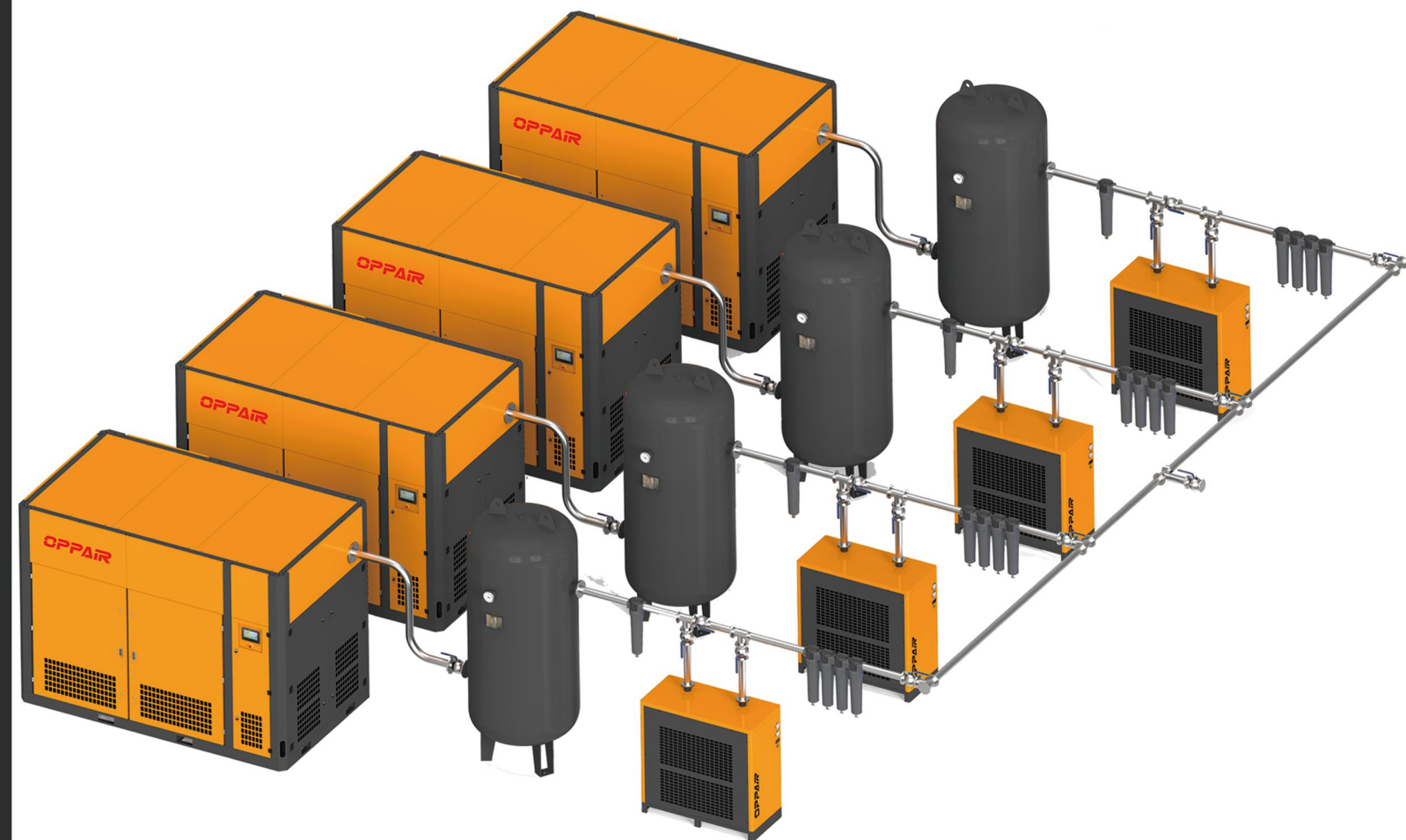
OPPAIR Compressor (Shanghai) Co.,Ltd.
Shandong OPPER Machinery Manufacturing Co.,Ltd

Factory address: 300 meters west of Wenquan Road and Jinxiang Road, Hedong District,
Linyi City, Shandong Province
Linyi Business Department: International Enterprise Center, Liuqing Street, Lanshan
District, Linyi City, Shandong Province
Shanghai Business Department: Building 2, No. 559 Fengjin Road, Fengxian District,
Shanghai

ISO SGS

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Screw Air Compressor

Low Pressure
(Single stage)
5bar

Low Pressure
(Two stage)
5bar

Normal Pressure
(Two stage)
8-15bar

High Pressure
(Two stage)
20/25/30bar

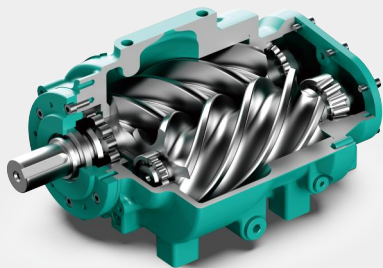
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Low Pressure Single Stage PM VSD Screw Air Compressor

5bar



FEATURES

This model uses a Baosi single-stage air end,the pressure is 5 bar. Specially used in textile, construction, cement, and steel industries. Using a main engine developed specifically for low-pressure conditions, the screw profile and internal pressure are optimized to improve the efficiency of the air end.

Model	OPP-40	OPP-50	OPP-60	OPP-75	OPP-100	OPP-125	OPP-150	OPP-175	OPP-220	OPP-250
Power(kw)	30	37	45	55	75	90	110	132	160	185
Horsepower(hp)	40	50	60	75	100	125	150	175	220	250
Air displacement/ Working pressure (m³/min. / bar)	5.2/5	7.3/5	9.6/5	12.3/5	15.4/5	19.3/5	22.2/5	27.9/5	31.4/5	38.6/5
Air outlet diameter	DN50	DN50	DN50	DN65	DN65	DN80	DN80	DN125	DN150	DN150
Noise level dB(A)	65±3	65±3	68±3	68±3	68±3	70±3	73±3	76±3	76±3	80±3
Type	PM VSD with Inverter									
Driven method	Direct driven									
Start method	Variable frequency start									
Length (mm)	1600	1600	1600	1850	1850	2600	2600	2700	3000	3000
Width (mm)	1150	1150	1150	1250	1250	1600	1600	1650	1900	1900
Height (mm)	1300	1300	1300	1600	1600	1900	1900	1900	2350	2350
Weight (kg)	620	720	780	1550	1800	2300	2500	2800	3100	3600

Low Pressure Two Stage PM VSD Screw Air Compressor

5bar



FEATURES

This model uses a Baosi two-stage air end, Pro series uses Hanbell two-stage air end,the pressure is 5 bar. Low pressure + two-stage design, extreme energy saving. In principle, two-stage compression saves 5%-8% energy compared to single-stage compression. Two-stage compression has a small compression ratio, less leakage,small bearing load, and greatly improved bearing life.

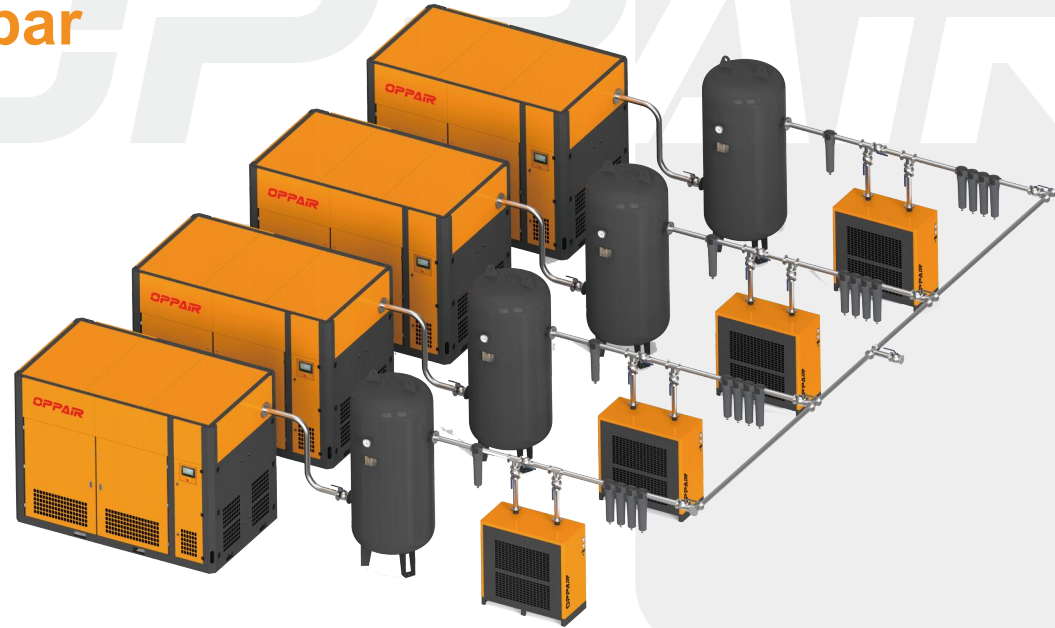
Model	OPT-40	OPT-50	OPT-60	OPT-75	OPT-100	OPT-125	OPT-150	OPT-175	OPT-220
Power(kw)	30	37	45	55	75	90	110	132	160
Horsepower(hp)	40	50	60	75	100	125	150	175	220
Air displacement/ Working pressure (m³/min. / bar)	6.98/5	9.13/5	10.32/5	13.8/5	16.9/5	20.8/5	24.07/5	31.39/5	38.82/5
Air outlet diameter	DN50	DN50	DN50	DN65	DN65	DN80	DN80	DN125	DN150
Noise level dB(A)	65±3	65±3	68±3	68±3	68±3	70±3	73±3	76±3	76±3
Type	PM VSD with Inverter								
Driven method	Direct driven								
Start method	Variable frequency start								
Length (mm)	1700	1700	1700	1900	1900	2700	2700	2750	3200
Width (mm)	1200	1200	1200	1300	1300	1700	1700	1700	1900
Height (mm)	1300	1300	1300	1600	1600	1900	1900	1900	2350
Weight (kg)	680	750	800	1600	1900	2400	2600	2900	3200

PRO SERIES

Model	OPT-40 Pro	OPT-50 Pro	OPT-60 Pro	OPT-75 Pro	OPT-100 Pro	OPT-125 Pro	OPT-150 Pro	OPT-175 Pro	OPT-220 Pro
Power(kw)	30	37	45	55	75	90	110	132	160
Horsepower(hp)	40	50	60	75	100	125	150	175	220
Air displacement/ Working pressure (m³/min. / bar)	5.88/5	7.51/5	9.17/5	14.86/5	17.75/5	20.91/5	25.43/5	31.43/5	36.22/5
Air outlet diameter	DN50	DN50	DN50	DN65	DN65	DN80	DN80	DN125	DN150
Noise level dB(A)	63±3	63±3	66±3	66±3	66±3	68±3	70±3	73±3	73±3
Type	PM VSD with Inverter								
Driven method	Direct driven								
Start method	Variable frequency start								
Length (mm)	1700	1700	1700	1900	1900	2700	2700	2750	3200
Width (mm)	1200	1200	1200	1300	1300	1700	1700	1700	1900
Height (mm)	1300	1300	1300	1600	1600	1900	1900	1900	2350
Weight (kg)	700	770	820	1630	1950	2450	2650	3000	3300

Normal Pressure Two Stage PM VSD Screw Air Compressor

8-15bar



FEATURES

This model uses a Baosi two-stage air end, Pro series uses Hanbell two-stage air end,the pressure is 8bar-15bar. Adopting high-efficiency and energy-saving two-stage compression technology, effectively reducing the compression ratio of each stage, reducing reflux leakage, and improving volumetric efficiency.

Model	OPT-30	OPT-40	OPT-50	OPT-60	OPT-75	OPT-100	OPT-125
Power(kw)	22	30	37	45	55	75	90
Horsepower(hp)	30	40	50	60	75	100	125
Air displacement/ Working pressure (m³/min./ bar)	1.85-4.1 / 8	2.0-5.89 / 8	2.3-6.82 / 8	2.7-9.06 / 8	3.4-11.3 / 8	4.7-15.15 / 8	5.2-17.9 / 8
	1.65-3.4 / 10	/	2.1-5.74 / 10	2.4-7.02 / 10	2.7-9.02 / 10	3.6-12.41 / 10	4.6-15.16 / 10
	1.4-2.6 / 13	1.8-3.87 / 13	/	2.1-5.55 / 13	2.3-6.84 / 13	3.2-10.85 / 13	3.3-11.93 / 13
	/	1.5-3.1 / 15	1.7-3.69/15	/	1.8-5.25 / 15	2.6-8.4 / 15	3.2-11.06 / 15
Air outlet diameter	DN25	DN40	DN40	DN40	DN50	DN50	DN50
Noise level dB(A)	68±3	68±3	68±3	70±3	73±3	76±3	76±3
Type	PM VSD with Inverter						
Driven method	Direct driven						
Start method	Variable frequency start						
Length (mm)	1450	1500	1500	1600	1870	1920	2600
Width (mm)	950	950	950	1050	1220	1270	1600
Height (mm)	1200	1250	1250	1260	1600	1600	1900
Weight (kg)	500	550	600	680	1400	1450	1750

Model	OPT-150	OPT-175	OPT-220	OPT-250	OPT-275	OPT-300	OPT-350
Power(kw)	110	132	160	185	200	220	250
Horsepower(hp)	150	175	220	250	270	300	350
Air displacement/ Working pressure (m³/min. / bar)	6.1-21.9 / 8	7.4-24.98 / 8	9.2-31.08 / 8	10.8-36.9 / 8	12.0-40.0 / 8	13.4-43.75 / 8	/
	5.5-18.8 / 10	6.4-22.15 / 10	8.1-26.25 / 10	9.1-30.93 / 10	/	12.3-38.35 / 10	12.2-40.8 / 10
	4.6-15.08 / 13	5.5-18.78 / 13	6.8-23.56 / 13	8.1-26.11 / 13	/	9.1-30.7 / 13	10.4-34.63 / 13
	3.7-12.51 / 15	5.4-18.5 / 15	/	6.6-23.31 / 15	/	/	8.9-30.4 / 15
Air outlet diameter	DN65	DN65	DN80	DN80	DN100	DN100	DN100
Noise level dB(A)	76±3	76±3	76±3	80±3	80±3	80±3	84±3
Type	PM VSD with Inverter						
Driven method	Direct driven						
Start method	Variable frequency start						
Length (mm)	2600	2600	3100	3100	3200	3600	3600
Width (mm)	1600	1600	1870	1870	2000	2200	2200
Height (mm)	1900	1900	2350	2350	2200	2500	2500
Weight (kg)	2000	2200	2800	3200	3800	4800	5100

PRO SERIES

Model	OPT-40 Pro	OPT-50 Pro	OPT-60 Pro	OPT-75 Pro	OPT-100 Pro	OPT-125 Pro	OPT-150 Pro
Power(kw)	30	37	45	55	75	90	110
Horsepower(hp)	40	50	60	75	100	125	150
Air displacement/ Working pressure (m³/min. / bar)	2.1-6.2/8	2.5-7.49/8	2.8-9.14/8	3.2-11.86/8	4.8-15.70/8	5.4-18.9/8	6.5-22.27/8
	/	2.2-6.72/10	2.6-8.11/10	3.1-11.66/10	4.3-14.56/10	5.1-17.39/10	5.7-20.53/10
	/	/	2.4-7.25/13	2.7-8.85/13	4.2-11.48/13	4.2-14.97/13	5.0-17.13/13
Air outlet diameter	DN40	DN40	DN40	DN50	DN50	DN50	DN65
Noise level dB(A)	65±3	65±3	65±3	68±3	70±3	73±3	73±3
Type	PM VSD with Inverter						
Driven method	Direct driven						
Start method	Variable frequency start						
Length (mm)	1500	1500	1600	1870	1920	2600	2600
Width (mm)	950	950	1050	1220	1270	1600	1600
Height (mm)	1250	1250	1260	1600	1600	1900	1900
Weight (kg)	580	630	700	1430	1480	1790	2100

Model	OPT-175 Pro	OPT-220 Pro	OPT-250 Pro	OPT-275 Pro	OPT-300 Pro	OPT-350 Pro
Power(kw)	132	160	185	200	220	250
Horsepower(hp)	175	220	250	270	300	350
Air displacement/ Working pressure (m³/min. / bar)	8.6-27.9/8	9.4-32.33/8	11-38.5/8	12.3-42.0/8	13.8-45.6/8	18.1-50.34/8
	8.3-25.97/10	8.5-27.12/10	9.3-32.85/10	10.7-35.22/10	12.4-39.54/10	13.7-44.62/10
	6.2-20.22/13	8.2-25.56/13	8.3-27.7/13	9.0-31.37/13	10.7-35.29/13	12.3-38.36/13
Air outlet diameter	DN65	DN80	DN80	DN100	DN100	DN100
Noise level dB(A)	73±3	73±3	78±3	78±3	78±3	81±3
Type	PM VSD with Inverter					
Driven method	Direct driven					
Start method	Variable frequency start					
Length (mm)	2600	3100	3100	3200	3600	3600
Width (mm)	1600	1870	1870	2000	2200	2200
Height (mm)	1900	2350	2350	2200	2500	2500
Weight (kg)	2300	2850	3300	3850	4850	5150

High Pressure Two Stage PM VSD Screw Air Compressor

20/25/30bar



FEATURES

This model uses a Baosi two-stage air end, the pressure is 25bar-30bar. High-pressure screw air compressors are widely used in various industrial fields, especially in blow molding, petroleum, chemical, and electronics industries. They are popular for their high efficiency, low noise, and low vibration.

Model	OPT-100	OPT-125	OPT-150	OPT-175	OPT-220	OPT-250	OPT-275	OPT-300	OPT-350
Power(kw)	75	90	110	132	160	185	200	220	250
Horsepower(hp)	100	125	150	175	220	250	270	300	350
Air displacement/ Working pressure (m³/min. / bar)	8.41/20	9.46/20	11.56/20	14.57/20	16.33/20	21.3/20	22.66/20	23.27/20	25.66/20
	7.18/25	8.19/25	10.24/25	12.22/25	14.18/25	18.10/25	19.55/25	21.0/25	24.13/25
	/	6.95/30	8.91/30	10.89/30	12.78/30	16.34/30	17.76/30	19.18/30	21.91/30
Air outlet diameter	DN50	DN50	DN65	DN65	DN80	DN80	DN100	DN100	DN100
Noise level dB(A)	76±3	76±3	76±3	76±3	76±3	80±3	80±3	80±3	84±3
Type	PM VSD with Inverter								
Driven method	Direct driven								
Start method	Variable frequency start								
Length (mm)	1920	2600	2600	2600	3100	3100	3200	3600	3600
Width (mm)	1270	1600	1600	1600	1870	1870	2000	2200	2200
Height (mm)	1600	1900	1900	1900	2350	2350	2200	2500	2500
Weight (kg)	1600	1900	2200	2400	3000	3450	4100	5100	5500



● More Energy-Saving

Direct gear drive allows air end to operate at the optimal energy-saving speed. Variable frequency soft start reduces startup energy consumption, resulting in a 40% energy saving for two-stage PM VSD air compressor. The two-stage permanent magnet variable frequency rotor is directly driven by gears, and each stage of the rotor can reach its optimal speed.

● More Stable

No mechanical transmission failure. The motor and male rotor utilize an integrated shaft structure, eliminating the need for couplings and gears, and the potential for coupling and gear failure.

● More Efficient

The PM VSD motor eliminates transmission efficiency losses. The integrated structure reduces coupling and gear losses. Compared to traditional single-stage compressors, the displacement is increased by 15% at the same power.

