OPPAIR

High Pressure - Two Stage PM VSD Screw Air Compressor

20-30bar

- **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.

- **More Stable**

No mechanical transmission failures. 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.

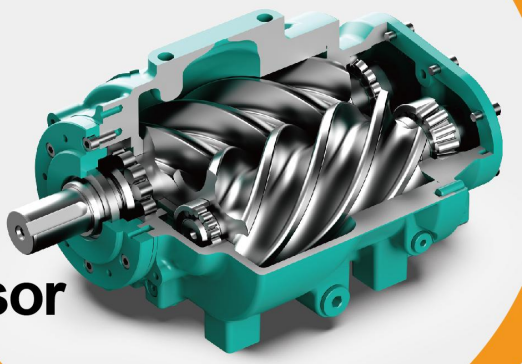
- **More Efficient**

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.

Model	OPT-100PV	OPT-125PV	OPT-150PV	OPT-175PV	OPT-200PV	OPT-250PV	OPT-275PV	OPT-300PV	OPT-350PV
Power(kw)	75	90	110	132	160	185	200	220	250
Horsepower(hp)	100	125	150	175	200	250	275	300	350
Air displacement/ Working pressure (m^3/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								
Driven method	Direct driven								
Start method	PM VSD								
Length (mm)	1920	2600	2600	2600	3000	3000	3200	3600	3600
Width (mm)	1270	1600	1600	1600	1750	1750	2000	2200	2200
Height (mm)	1600	1900	1900	1900	2000	2000	2200	2500	2500
Weight (kg)	1450	1500	1600	1800	2700	3000	3800	4800	5100

Low Pressure
Single Stage
PM VSD Screw Air Compressor

3/4/5bar



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 main engine. The design concept of large rotor, large bearing, low speed is adopted to reduce noise and vibration, and increase the life and stability of the main engine. The tooth surface is processed by a rotor grinder to create a high-precision rotor, which is the first guarantee for the high efficiency and stability of the main engine. Compared with the normal pressure machine with the same air volume,it can save more than 50% energy, and the industry application is more energy-saving, environmentally friendly, and reduces the cost of use.

Model	OPP-20 PV	OPP-30 PV	OPP-40 PV	OPP-50 PV	OPP-60 PV	OPP-75 PV	OPP-100 PV	OPP-125 PV	OPP-150 PV	OPP-175 PV	OPP-200 PV	OPP-250 PV
Power(kw)	15	22	30	37	45	55	75	90	110	132	160	185
Horsepower(hp)	20	30	40	50	60	75	100	125	150	175	200	250
Air displacement/ Working pressure (m^3/min. / bar)	3.8/3	5.8/3	/	10.0/3	12.8/3	16.0/3	20.0/3	23.0/3	31.5/3	39.3/3	43.0/3	/
	/	5.5/4	6.1/4	7.6/4	9.8/4	12.5/4	15.7/4	22.5/4	28.3/4	31.1/4	38.9/4	/
	/	/	5.2/5	7.3/5	9.6/5	12.3/5	15.4/5	15.4/5	22.2/5	27.9/5	31.4/5	38.6/5
Air outlet diameter	DN40	DN40	DN50	DN50	DN50	DN65	DN65	DN80	DN80	DN125	DN150	DN150
Noise level dB(A)	60±3	62±3	65±3	65±3	68±3	68±3	68±3	70±3	73±3	76±3	76±3	80±3
Type	PM VSD											
Driven method	Direct driven											
Start method	PM VSD											
Length (mm)	1200	1400	1600	1600	1600	1850	1850	2600	2600	2700	2900	2900
Width (mm)	800	980	1150	1150	1150	1250	1250	1600	1600	1650	1850	1850
Height (mm)	1100	1250	1300	1300	1300	1600	1600	1900	1900	1900	2000	2000
Weight (kg)	500	650	680	750	800	1600	1800	2400	2700	3200	3700	3900

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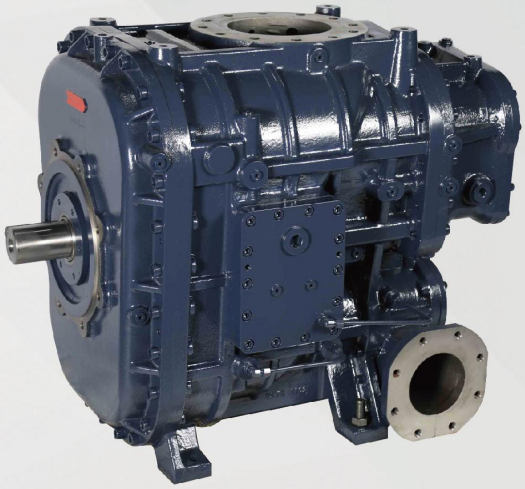
PM VSD Screw Air Compressor

3/4/5bar



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Low pressure + two-stage design, extreme energy saving. The unique intercooler spray curtain design reduces the air temperature, and the compression process is close to the most energy-saving isothermal compression. 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-30PV	OPT-40PV	OPT-50PV	OPT-60PV	OPT-75PV	OPT-100PV	OPT-125PV	OPT-150PV	OPT-175PV	OPT-200PV
Power(kw)	22	30	37	45	55	75	90	110	132	160
Horsepower(hp)	30	40	50	60	75	100	125	150	175	200
Air displacement/ Working pressure (m^3/min. / bar)	5.89/3	8.29/3	11.92/3	14.89/3	15.79/3	19.55/3	25.48/3	31.49/3	36.62/3	39.9/3
	5.88/4	7.52/4	9.18/4	11.91/4	14.87/4	19.53/4	21.69/4	31.46/4	32.52/4	39.86/4
	/	5.55/5	7.51/5	9.17/5	14.89/5	17.55/5	20.91/5	25.43/5	31.43/5	36.22/5
Air outlet diameter	DN40	DN65	DN80	DN80	DN80	DN125	DN125	DN125	DN125	DN150
Noise level dB(A)	58±3	63±3	66±3	66±3	66±3	66±3	68±3	68±3	74±3	74±3
Type	PM VSD									
Driven method	Direct driven									
Start method	PM VSD									
Length (mm)	1600	1700	1700	1700	1950	1950	2800	2800	2800	3200
Width (mm)	1250	1250	1250	1250	1300	1300	1700	1700	1700	2000
Height (mm)	1300	1300	1300	1300	1650	1650	1950	1950	1950	2100
Weight (kg)	780	850	1000	1100	1800	1900	2900	3500	3900	4400

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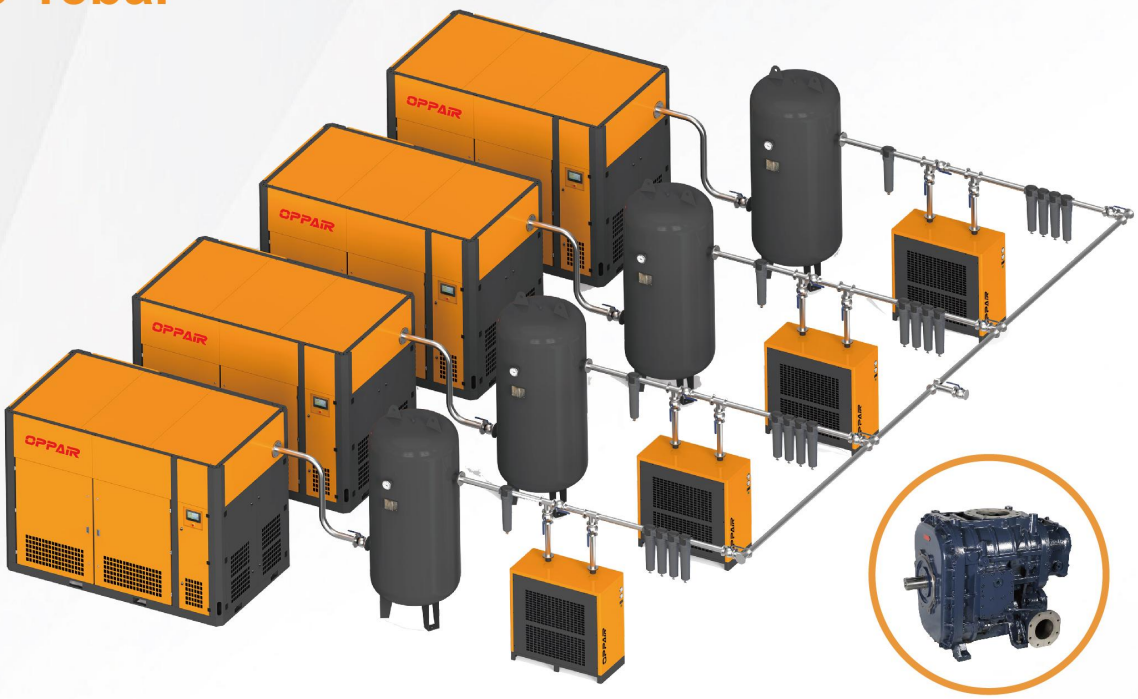
Medium Pressure - Two Stage PM VSD Screw Air Compressor

8-15bar



Series diagram : Screw air compressor + Air tank + Air dryer + Precision filter

Model	OPT-50PV	OPT-60PV	OPT-75PV	OPT-100PV	OPT-125PV	OPT-150PV	OPT-175PV	OPT-200PV	OPT-250PV	OPT-275PV	OPT-300PV	OPT-350PV
Power(kw)	37	45	55	75	90	110	132	160	185	200	220	250
Horsepower(hp)	50	60	75	100	125	150	175	200	250	275	300	350
Air displacement/ Working pressure (m^3/min. / bar)	6.82/8	9.06/8	11.3/8	15.15/8	18.9/8	22.27/8	24.98/8	31.08/8	38.54/8	41.0/8	43.75/8	/
	5.74/10	/	9.02/10	12.41/10	15.16/10	18.8/10	22.15/10	26.25/10	30.93/10	/	38.35/10	40.8/10
	/	5.55/13	6.84/13	10.85/13	11.93/13	15.08/13	18.78/13	23.56/13	26.11/13	/	30.7/13	34.63/13
	3.69/15	/	5.25/15	8.4/15	11.06/15	12.51/15	18.5/15	/	23.31/15	/	/	30.4/15
Air outlet diameter	DN40	DN40	DN50	DN50	DN50	DN65	DN65	DN80	DN80	DN100	DN100	DN100
Noise level dB(A)	68±3	70±3	73±3	76±3	76±3	76±3	76±3	76±3	80±3	80±3	80±3	84±3
Type	PM VSD											
Driven method	Direct driven											
Start method	PM VSD											
Length (mm)	1600	1600	1920	1920	2600	2600	2600	3000	3000	3200	3600	3600
Width (mm)	1050	1050	1270	1270	1600	1600	1600	1750	1750	2000	2200	2200
Height (mm)	1260	1260	1600	1600	1900	1900	1900	2000	2000	2200	2500	2500
Weight (kg)	600	680	1400	1450	1500	1600	1800	2700	3000	3800	4800	5100

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