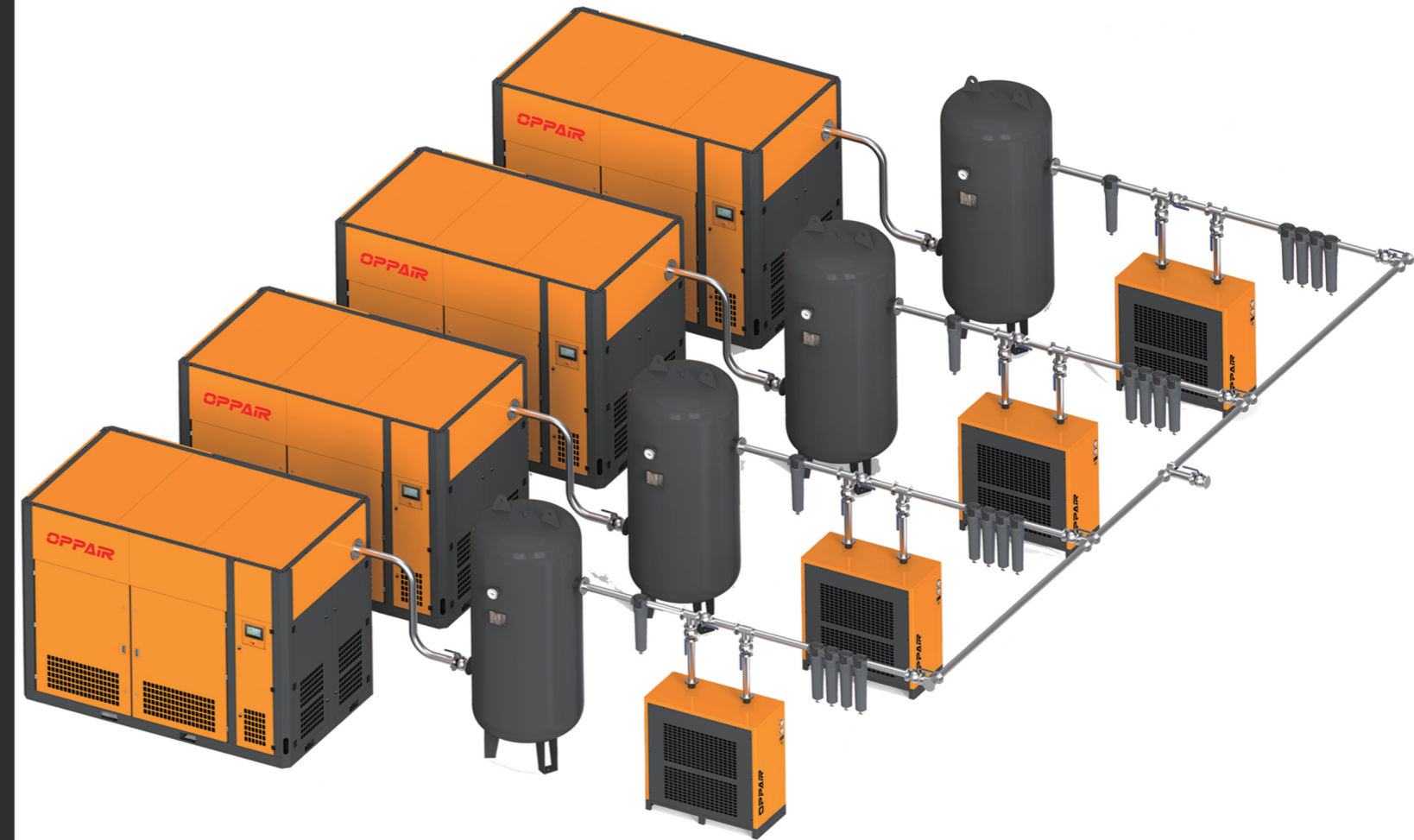


OPPAIR



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PROFESSIONAL AIR COMPRESSOR MANUFACTURER

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Screw Air Compressor

Shandong OPPER Machinery Manufacturing Co.,Ltd

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ISO SGS

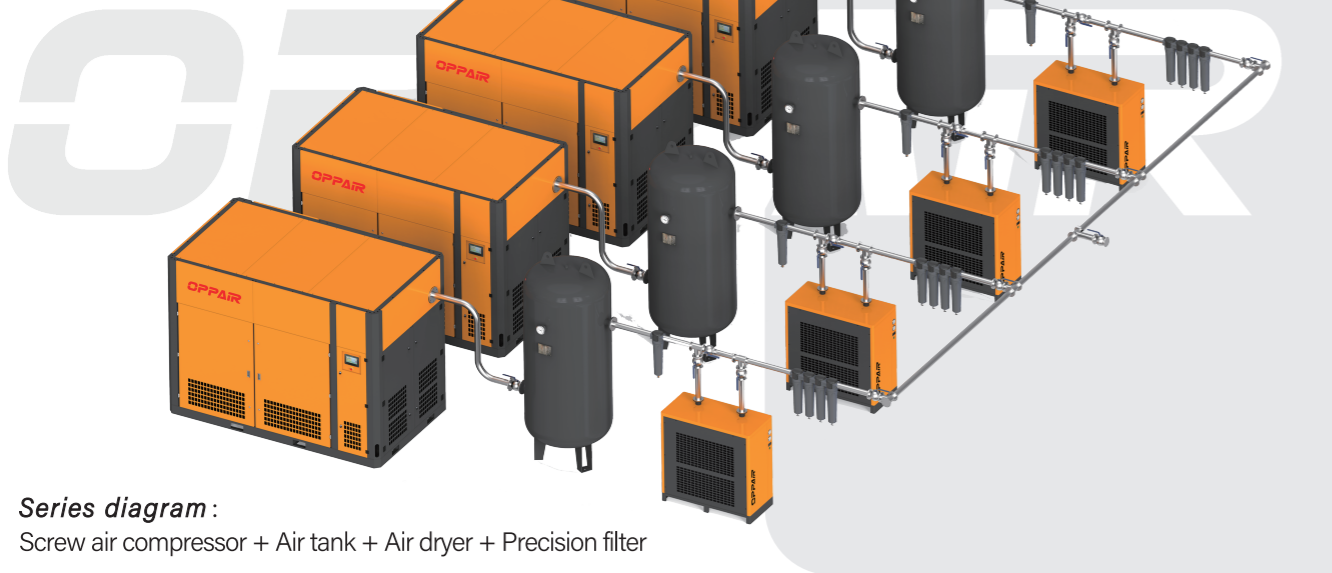
CE TÜV SUD

Two stage
8-15bar

High Pressure
20-30bar

Low Pressure
3-5bar

TWO STAGE PM VSD Screw Air Compressor 8-15bar



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

Model	OPT-20	OPT-30	OPT-40	OPT-50	OPT-60	OPT-75	OPT-100	OPT-125
Power(kw)	15	22	30	37	45	55	75	90
Horsepower(hp)	20	30	40	50	60	75	100	125
Air displacement/ Working pressure (m³/min. / bar)	2.76/8	4.1/8	/	6.82/8	9.06/8	11.3/8	15.15/8	18.9/8
	/	3.4/10	/	5.74/10	/	9.02/10	12.41/10	15.16/10
	/	2.6/13	3.87/13	/	5.55/13	6.84/13	10.85/13	11.93/13
Air outlet diameter	DN20	DN25	DN40	DN40	DN40	DN50	DN50	DN50
	68±3	68±3	68±3	68±3	70±3	73±3	76±3	76±3
Type	PM VSD							
Driven method	Direct driven							
Start method	PM VSD							
Length (mm)	1250	1450	1600	1600	1600	1920	1920	2600
Width (mm)	800	1000	1050	1050	1050	1270	1270	1600
Height (mm)	1100	1200	1260	1260	1260	1600	1600	1900
Weight (kg)	400	500	550	600	680	1400	1450	1500

Model	OPT-150	OPT-175	OPT-200	OPT-250	OPT-275	OPT-300	OPT-350
Power(kw)	110	132	160	185	200	220	250
Horsepower(hp)	150	175	200	250	275	300	350
Air displacement/ Working pressure (m³/min. / bar)	22.27/8	24.98/8	31.08/8	38.54/8	41.0/8	43.75/8	/
	18.8/10	22.15/10	26.25/10	30.93/10	/	38.35/10	40.8/10
	15.08/13	18.78/13	23.56/13	26.11/13	/	30.7/13	34.63/13
Air outlet diameter	DN65	DN65	DN80	DN80	DN100	DN100	DN100
	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)	2600	2600	3000	3000	3200	3600	3600
Width (mm)	1600	1600	1750	1750	2000	2200	2200
Height (mm)	1900	1900	2000	2000	2200	2500	2500
Weight (kg)	1600	1800	2700	3000	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)	5.86/8	7.49/8	9.14/8	11.86/8	15.70/8	17.69/8	21.6/8
	/	6.72/10	8.11/10	11.66/10	14.56/10	17.39/10	20.53/10
Air outlet diameter	DN40	DN40	DN40	DN40	DN50	DN50	DN65
	65±3	65±3	68±3	70±3	70±3	72±3	74±3
Type	PM VSD						
Driven method	Direct driven						
Start method	PM VSD						
Length (mm)	1600	1600	1600	1920	1920	2600	2600
Width (mm)	1050	1050	1050	1270	1270	1600	1600
Height (mm)	1260	1260	1260	1600	1600	1900	1900
Weight (kg)	580	630	700	1430	1480	1430	1630

Model	OPT-175 Pro	OPT-200 Pro	OPT-250 Pro	OPT-275 Pro	OPT-300 Pro	OPT-350 Pro
Power(kw)	132	160	185	200	220	250
Horsepower(hp)	175	200	250	275	300	350
Air displacement/ Working pressure (m³/min. / bar)	27.9/8	32.33/8	36.37/8	40.0/8	45.6/8	50.34/8
	25.97/10	27.12/10	31.85/10	35.22/10	39.54/10	44.62/10
	20.22/13	25.56/13	26.71/13	31.37/13	35.29/13	38.36/13
Air outlet diameter	DN65	DN80	DN80	DN100	DN100	DN100
Noise level dB(A)	74±3	74±3	78±3	78±3	80±3	80±3
Type	PM VSD					
Driven method	Direct driven					
Start method	PM VSD					
Length (mm)	2600	3000	3000	3200	3600	3600
Width (mm)	1600	1750	1750	2000	2200	2200
Height (mm)	1900	2000	2000	2200	2500	2500
Weight (kg)	1830	2730	3050	3850	4850	5150

Features:

1. More energy-saving

The two-stage permanent magnet variable frequency rotor is directly driven by gears, and each stage of the rotor can obtain the optimal speed. The main engine always runs at the optimal energy-saving speed. The variable frequency soft start reduces the energy consumption when the air compressor starts. By controlling the interstage pressure, the compressor always works at the optimal efficiency point under different working conditions. The two-stage permanent magnet variable frequency air compressor can save 40% energy. Calculated at 8000h/unit/year, it can save 32,000 US dollars in electricity bills each year.

2. More stable

No mechanical transmission failure, the motor and the male rotor adopt an integrated shaft structure, without coupling and gear transmission, eliminating the hidden dangers of coupling and gear failure.

3. More efficient

Permanent magnet variable frequency motor + no transmission efficiency loss. The permanent magnet variable frequency motor has the advantages of energy saving and excellent performance, and the integrated structure can reduce the efficiency loss of couplings and gears. Compared with traditional single-stage compression, the exhaust volume increases by 15% under the same power.

High Pressure Two Stage PM VSD Screw Air Compressor 20-30bar



Features

High-pressure screw air compressors are widely used in various industrial fields, especially in blow molding, petroleum, chemical, electronics and other industries. They are highly favored for their high efficiency, low noise and low vibration.

Model	Top-100	Top-125	Top-150	Top-175	Top-200	Top-250	Top-275	Top-300	Top-350
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 (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								
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 PM VSD Screw Air Compressor 3/4/5bar

Single-stage Low Pressure

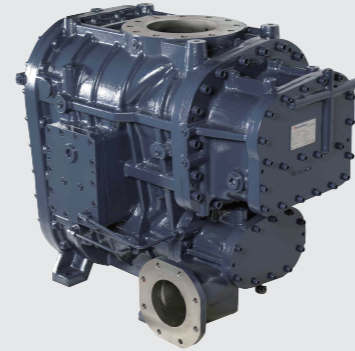
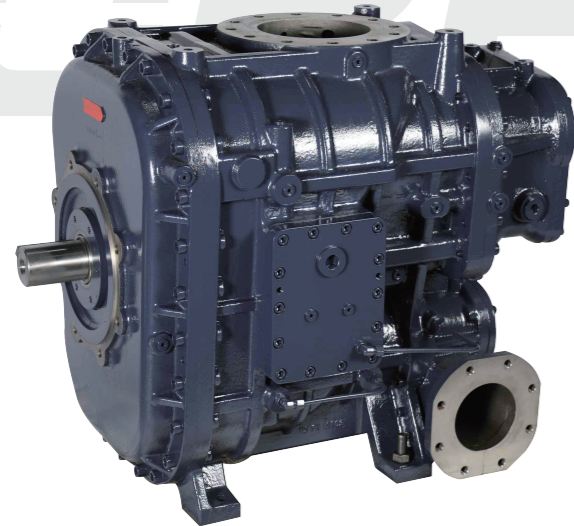
Specially used in textile, construction, cement, and steel industries. Using a main engine developed specifically for low-pressure conditions, the screw profile and internal pressure are optimized to improve the efficiency of the main engine. The design concept of "large rotor, large bearing, low speed" 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.

Application



Model	L-20	L-30	L-40	L-50	L-60	L-75	L-100	L-125	L-150	L-175	L-200	L-250
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 (m³/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	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

Two-stage low pressure



Features

1. 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.
2. First-level energy efficiency, energy efficiency limit value and energy efficiency grade GB-19153-2019, in line with the new national energy-saving requirements

Model	L2-20	L2-40	L2-60	L2-75	L2-100	L2-125	L2-150	L2-175	L2-200
Power(kw)	15	30	45	55	75	90	110	132	160
Horsepower(hp)	20	40	60	75	100	125	150	175	200
Air displacement(m3/min)	3.50	6.98	10.32	12.20	15.40	19.10	24.07	31.39	38.82
Working pressure(bar)	4/5	4/5	4/5	4/5	4/5	4/5	4/5	4/5	4/5
Air outlet diameter	DN40	DN50	DN50	DN65	DN65	DN80	DN80	DN125	DN150
Noise level dB(A)	60±3	65±3	68±3	68±3	68±3	70±3	73±3	76±3	76±3
Type	PM VSD								
Driven method	Direct driven								
Start method	PM VSD								
Length (mm)	1300	1700	1700	1950	1950	2800	2800	2800	3200
Width (mm)	850	1250	1250	1300	1300	1700	1700	1700	2000
Height (mm)	1100	1300	1300	1650	1650	1950	1950	1950	2100
Weight (kg)	600	800	1000	1800	2100	2800	3400	3800	4300

Pro series

Features:

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.

Application



Model	L2-30 Pro	L2-40 Pro	L2-50 Pro	L2-60 Pro	L2-75 Pro	L2-100 Pro	L2-125 Pro
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)	5.89/3 5.88/4 /	8.29/3 7.52/4 5.55/5	11.92/3 9.18/4 7.51/5	14.89/3 11.91/4 9.17/5	15.79/3 14.87/4 14.89/5	19.55/3 19.53/4 17.55/5	25.48/3 21.69/4 20.91/5
Air outlet diameter	DN40	DN65	DN80	DN80	DN80	DN125	DN125
Noise level dB(A)	58±3	63±3	66±3	66±3	66±3	66±3	68±3
Type	PM VSD						
Driven method	Direct driven						
Start method	PM VSD						
Length (mm)	1600	1700	1700	1700	1950	1950	2800
Width (mm)	1250	1250	1250	1250	1300	1300	1700
Height (mm)	1300	1300	1300	1300	1650	1650	1950
Weight (kg)	780	850	1000	1100	1800	1900	2900

Model	L2-150 Pro	L2-175 Pro	L2-200 Pro	L2-250 Pro	L2-275 Pro	L2-300 Pro	L2-350 Pro
Power(kw)	110	132	160	185	200	220	250
Horsepower(hp)	150	175	200	250	275	300	350
Air displacement/ Working pressure (m³/min. / bar)	31.49/3 31.46/4 25.43/5	36.62/3 32.52/4 31.43/5	39.9/3 39.86/4 36.22/5	45.62/3 45.57/4 40.90/5	50.69/3 50.64/4 45.83/5	57.06/3 54.93/4 54.87/5	61.73/3 57.01/4 56.95/5
Air outlet diameter	DN125	DN125	DN150	DN150	DN200	DN200	DN200
Noise level dB(A)	68±3	74±3	74±3	74±3	78±3	78±3	78±3
Type	PM VSD						
Driven method	Direct driven						
Start method	PM VSD						
Length (mm)	2800	2800	3200	3200	3300	3300	3600
Width (mm)	1700	1700	2000	2000	2100	2100	2200
Height (mm)	1950	1950	2100	2100	2450	2450	2450
Weight (kg)	3500	3900	4400	4500	4600	4800	5200