

Screw Premium Single-stage Compressor Series



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Official Account



Official Website of
Luoyou Compressor

Luoyou Compressor(Shanghai) Co., Ltd

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COMPANY PROFILE

Regarding Luoyou

Luoyou Compressor (Shanghai) Co., Ltd. was established in 2013. Our company specializes in the production of oil-injected and oil-free screw air compressors, oil-free vortex machines, various customized high, medium and low-pressure screw air compressors, as well as various post-processing equipment.

The company adheres to the advanced design concepts of German industry and rigorous manufacturing techniques. It combines domestic and international markets and relies on its own strong research and development capabilities. Continuously updating, it leverages its professional design and manufacturing advantages. The production process strictly complies with the ISO9001 international quality system to ensure that each compressor reaches the international leading level. Its reputation and quality have always been at the forefront in the industry.

Luoyou compressor is dedicated to serving users worldwide. Its products are widely used in industries such as machinery, food, medical care, electronics, textiles, automobiles, mining, construction, and building materials. The products have been exported to countries and regions such as Europe, America, and Southeast Asia. With the business philosophy of "customer first, reputation first, quality first, service first", the principle of 24-hour on-site service, continuous innovative technology and a strong sales and service team, it can provide the best solutions and fast, high-quality services for the compressed air systems of every user.

We have always adhered to the production philosophy of "stability, energy conservation and innovation". With a full of enthusiasm and sincere cooperative attitude, as well as a win-win business philosophy, we warmly welcome users from home and abroad to negotiate and cooperate with us.



Brand Culture

BRAND CULTURE

Brand Support

Luoyou, as a leading brand in the air compressor industry, offers users powerful support and protection through its advanced energy-saving technology, noise reduction design, and intelligent control system.

Product advantages

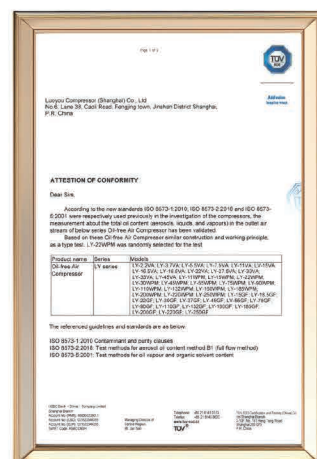
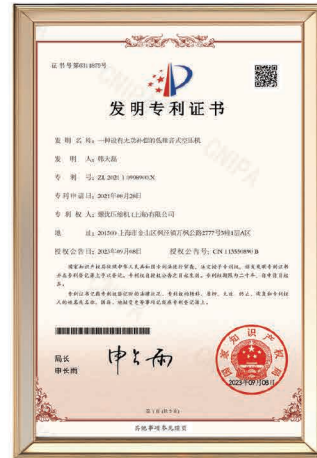
Technical accumulation and R&D capabilities have enabled the products to be more energy-efficient, highly effective, stable and reliable, intelligent and convenient, environmentally friendly and clean, with low maintenance costs.

Market support

Equipped with a professional maintenance team and sufficient spare parts, providing regular maintenance services, ensuring the stable operation of the air compressors. Offering services such as operation training and maintenance training to customers, helping them enhance the skills of their operators.

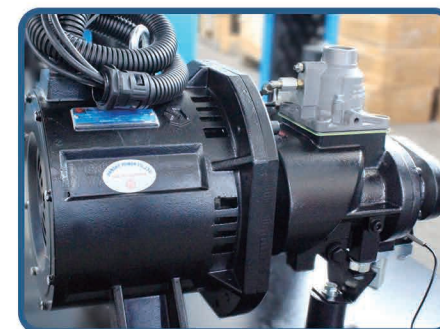
Professional manufacturing

With 12 years of production experience and professional compressor manufacturing capabilities.



TV/TPV/TCV series

Permanent magnet variable-frequency single-stage compression screw compressors



Integrated motor



Separate motor

The high-efficiency permanent magnet motor and the screw rotor adopt an integrated shaft direct connection structure for transmission efficiency of 100%. There is no gearbox, no belts, and no transmission efficiency loss. Compared with other options, it is more energy-efficient. Equipped with the high-efficiency permanent magnet motor, it can still maintain a high mechanical efficiency at low frequencies and low speeds.

The use of high elasticity coupling ensures smooth operation of the machine and prolongs the lifespan of the elastic body. The elastic body is designed as a involute arc surface, which can buffer the unbalanced torque during operation, avoid stress concentration, effectively absorb vibrations, and achieve noise-free effect. Through the frequency converter and intelligent control system, it can precisely control the exhaust pressure and flow rate, meeting the diverse needs of different users. It also enables real-time monitoring of the equipment's operating status and fault protection functions.



Note: TV/TPV/TCV have identical appearance.

• TV/TPV/TCV Series Technical Parameters •

TV/TPV/TCV		10TV/TPV/TCV	15TV/TPV/TCV	20TV/TPV/TCV	30TV/TPV/TCV	40TV/TPV/TCV	50TV/TPV/TCV	60TV/TPV/TCV	75TV/TPV/TCV
Displacement (m³/min)	0.8Mpa	1.0/1.1/1.2	1.4/1.5/1.6	2.2/2.3/2.4	3.3/3.6/3.8	4.8/4.9/5.0	6.3/6.5/6.8	7.8/7.9/8.0	10.0/10.3/10.5
	1.0Mpa	0.8/0.9/1.0	1.2/1.3/1.4	1.8/1.9/2.0	3.0/3.1/3.2	4.1/4.2/4.3	5.5/5.6/5.8	6.6/6.7/6.8	7.6/7.8/8.0
	1.3Mpa	0.6/0.7/0.8	1.0/1.1/1.2	1.5/1.6/1.7	2.7/2.8/2.9	3.5/3.6/3.7	4.9/5.0/5.1	5.6/5.7/5.8	7.1/7.3/7.5
Main Motor Power (KW)		7.5	11	15	22	30	37	45	55
Main Motor Speed (rpm)		3000							
Insulation class		F							
Driven/Protection Class		Permanent Magnet Integrated IP23 Direct Drive IP55							
Cooling Method		Air Cooling/Oil Cooling							
Outlet Diameter(in)		G1/2	G3/4	G3/4	G1	G1	G1 1/2	G1 1/2	G2
Dimensions (mm)	L	750	1000	1000	1100	1100	1250	1250	1680
	W	600	730	730	790	790	960	960	1150
	H	840	1030	1030	1150	1150	1310	1310	1480
Weight(kg)		130	230	250	300	330	430	450	820

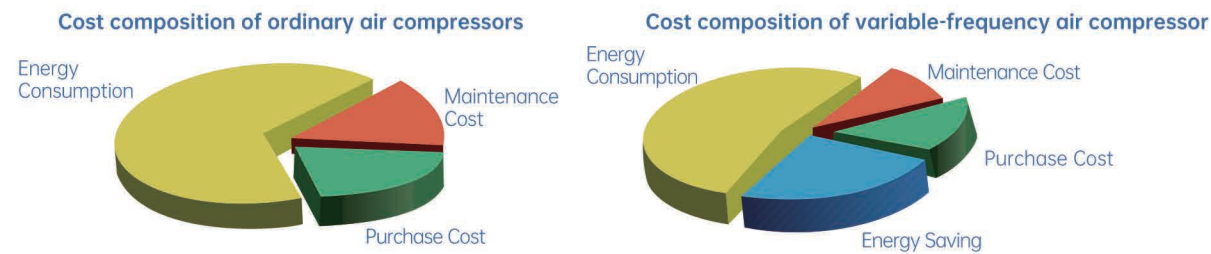
• TV/TPV/TCV Series Technical Parameters •

TV/TPV/TCV		100TV/TPV/TCV	125TV/TPV/TCV	150TV/TPV/TCV	180TV/TPV/TCV	220TV/TPV/TCV	250TV/TPV/TCV	300TV/TPV/TCV	340TV/TPV/TCV		
Displacement (m³/min)	0.8Mpa	12.7/12.9/13.0	15.6/15.8/16.0	20.1/20.4/20.5	23.5/23.8/24.0	26.2/26.8/27.0	30.3/30.8/31.0	36.0/36.3/36.5	41.0/41.3/41.5		
	1.0Mpa	11.5/11.8/12.0	12.5/12.8/13.0	16.6/16.8/17.0	20.0/20.3/20.5	23.2/23.8/24.0	26.0/26.8/27.0	31.2/31.8/32.0	37.0/37.2/37.5		
	1.3Mpa	8.6/8.9/9.0	11.5/11.8/12.0	13.0/13.3/13.5	16.0/16.4/16.5	20.0/20.3/20.5	24.0/24.3/24.5	28.9/29.2/29.5	29.8/33.2/33.5		
Main Motor Power (KW)		75	90	110	132	160	185	220	250		
Main Motor Speed (rpm)		3000									
Insulation class		F									
Driven/Protection Class		Direct Drive IP55									
Cooling Method		Air Cooling/Oil Cooling									
Outlet Diameter(in)		G2	DN65	DN80		DN80		DN100	DN100	DN100	DN100
Dimensions (mm)	L	1800	2100	Side Exhaust	Top Exhaust	Side Exhaust	Top Exhaust	3065	3065	3200	3300
				2560	2480	2560	2480				
		W	1200	1280	1560	1570	1560	1570	1765	1765	2260
H	1540	1600	1720	1900	1720	1900	1850	1850	2300	2400	
Weight(kg)		1150	2200	1800		2000		2500	3500	4500	5000

It is equivalent to saving over 35% of electricity compared to a regular screw-type machine.

The Luoyou series variable-frequency screw compressors were successfully developed by our company based on advanced European technologies. This series of machines features stable operation, simple operation, complete protection functions, and long service life. Its energy-saving effect is outstanding among similar products in the industry. The user-friendly three-dimensional design fully demonstrates the new trend of contemporary world screw compressor technology. How to produce more gas with the same amount of electricity and help users achieve energy-saving in line costs, we have made a series of efforts and research, and have achieved important breakthroughs. The permanent magnet variable-frequency screw machine developed by our company saves about 40% of electricity for users while maintaining the original working efficiency.

Graph showing various costs for the variable-frequency compressor over a three-year period



Power	7.5KW	11KW	15KW	22KW	37KW	55KW	75KW	90KW	110KW	250KW
Power saving (per year)	9700	14300	19600	28600	48600	71700	97800	117000	143500	326000

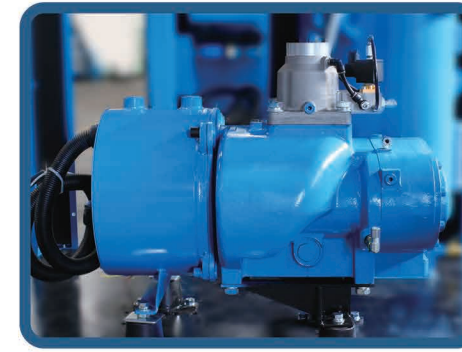


Intelligent Digitalization

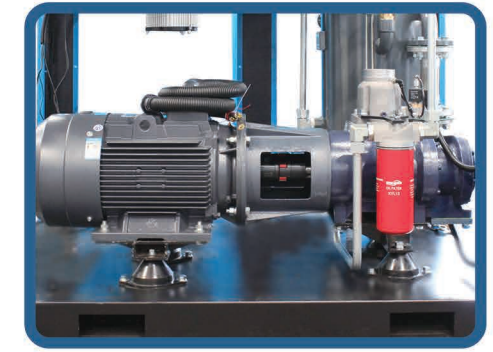
Cost Performance & Practicality

PV/CV Series

Permanent magnet variable-frequency single-stage compression screw compressor



Integrated motor



Separate motor

• High-end products, durable and reliable, with strong stability and low noise vibration •

- 1 With over 20 years of market application, it enjoys a good reputation and is comparable to international brands
- 2 8 to 12 bearing structures, with an anti-reverse bearing design, capable of withstanding greater axial load.
- 3 Suitable for high application pressure, the casting has high structural strength and strong reliability.
- 4 Optimization of exhaust port flow path, and strengthening of casting wall thickness



PV/CV		10PV/CV	15PV/CV	20PV/CV	30PV/CV	40PV/CV	50PV/CV	60PV/CV	75PV/CV								
Displacement (m³/min)	0.8Mpa	1.2	1.6	2.4	3.5	5.0	6.5	8.0	10.5								
	1.0Mpa	0.95	1.4	2.0	3.2	4.3	5.8	6.8	7.8								
	1.3Mpa	0.8	1.2	1.7	2.9	3.7	4.6	5.8	7.3								
Main Motor Power (KW)		7.5	11	15	22	30	37	45	55								
Main Motor Speed (rpm)		3000															
Insulation class		F															
Driven/Protection Class		Permanent Magnet Integrated IP23 Direct Drive IP55															
Cooling Method		Air Cooling/Oil Cooling															
Outlet Diameter(in)		G1/2	G3/4		G3/4		G1		G1	G1 1/2		G1 1/2		G2			
Dimensions (mm)	L	770	Integrated 950	Split Type 1050	Integrated 950	Split Type 1050	Integrated 1100	Split Type 1300	1100		Integrated 1200	Split Type 1400	Integrated 1200	Split Type 1530	1680		
	W	620	800	800	800	800	850	860	850		1000	960	1000	1000	1150		
	H	910	1080	1075	1080	1075	1270	1180	1270		1450	1300	1450	1275	1460		
Weight(kg)		Integrated 170	Split Type 190	Integrated 240	Split Type 270	Integrated 250	Split Type 290	Integrated 350	Split Type 400	Integrated 400	Split Type 480	Integrated 510	Split Type 600	Integrated 650	Split Type 750	Integrated 870	Split Type 950

PV/CV		100PV/CV	125PV/CV	150PV/CV	180PV/CV	220PV/CV	250PV/CV	300PV/CV	340PV/CV		
Displacement (m³/min)	0.8Mpa	13.3	16.3	20.6	24.0	27.0	30.2	36.4	43.2		
	1.0Mpa	12.2	14.6	17.0	20.6	23.2	27.0	33.1	38.5		
	1.3Mpa	9.0	12.3	14.2	16.5	19.7	22.5	28.5	35.7		
Main Motor Power (KW)		75	90	110	132	160	185	220	250		
Main Motor Speed (rpm)		3000									
Insulation class		F									
Driven/Protection Class		直联传动 IP55									
Cooling Method		风冷/油冷									
Outlet Diameter(in)		G2	DN65	DN80		DN80		DN100	DN100	DN100	DN100
Dimensions (mm)	L	1800	2100	Integrated 2560	Split Type 2480	Integrated 2560	Split Type 2480	3065	3065	3200	3300
	W	1200	1280	1560	1570	1560	1570	1765	1765	2260	2260
	H	1540	1600	1720	1900	1720	1900	1850	1850	2300	2400
Weight(kg)		1150	2200	2900		3100		3300	3500	4500	5000