



AIR COMPRESSOR

P R O D U C T S

C A T A L O G

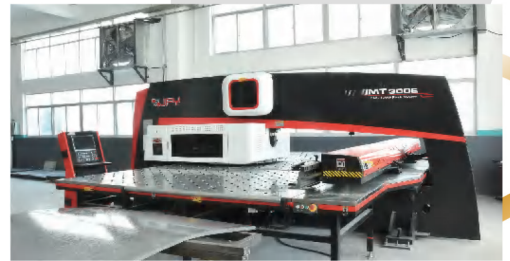
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(786)400-0910



ABOUT US

GoldStar CNC, located in Miami, Florida, has led the industry in innovations in the woodworking industry for more than two decades and continues to challenge the industry with new advancements.

At GoldStar CNC, our primary mission is to deliver quality nationwide as we participate in many community outreach programs where we offer our time, support, products and services.

We launched our first line of CNC machines in early 1998 and soon followed with sign making machines. After innovating in the area of CNC routers, we developed even more advanced machinery such as CO2 lasers and plasma cutters. We now have a wider range of machinery available than ever before, all to help our customers achieve their goals and improve the way they do business.





All the time, we stay in the spirit of innovation and development. We promise to provide customers with high-tech, high-quality and cost-effective products

✓ Quality First

The design and production are strictly implemented according to ISO9001 and ISO14001 standards, ensuring stability, reliability and long service life, and fully reflecting the most advanced manufacturing technology.

✓ Easy installation, Easy

The product is filled with lubricating oil before delivery, so it can work immediately after installation. Through the LCD screen, you can easily get the working status of the machine.

✓ Space-saving, Safety and Eco-friendly

The product has a compact structure, small size, small footprint and low operating noise. It can be installed wherever needed, even in the production area.

✓ Factory test

We have the most advanced computer testing system, each air compressor is tested under different operating conditions to ensure that it can get the best performance under various conditions. The performance test includes operating data and alarm protection system to make sure every machine shipped from the factory is safe and reliable.

✓ Reduce costs, Save energy

The product uses EPC intelligent control system and automatic load/unload adjustment to ensure that the air compressor can work according to the air requirements, automatically stop when not in use, eliminate waste, reduce energy consumption, and lower the machine operating cost.

GOLDSTAR OIL-INJECTED SCREW AIR COMPRESSOR

*Energy-saving, High Efficiency,
Stable and Durable*

✔ Reduce air leakage

At high speed, more air is leaked through the rotor during the compression process. In short, the faster the rotor turns, the more difficult it is to seal the air. Precision machining of the rotor can not make up for this defect, so the air end should be large diameter and low speed to achieve high energy efficiency.

✔ Smaller leakage area

We achieve the smallest leakage area by high-accuracy design, improve the efficiency.

PRODUCT FEATURES

✔ Superior electrical control system

With the microcomputer control system each unit have self-diagnosis and protection functions. Control panel can show the actual operation of the unit. If a failure occurs, the microcomputer control system will respond accordingly to different situations. Connect the compressors with a computer can achieve multiple chain control and remote control, make sure to work 24 hours a day.

✔ Reduce lubricant resistance

Inside the air end, rotors deliver the lubricating oil with heat. In fact, the lower the speed, the less resistance the oil has to the rotor. In addition, the lubricating oil should be injected into the compression chamber at a suitable location to minimize the viscous forces and provide the best cooling effect.

✔ Excellent cooling device

The cooler is specially designed for high temperature and high humidity areas, not only increases the heat exchange capacity by more than 10%, but also strengthens the material structure and resistance to acid and alkali treatment. As the moisture in the oil is removed, the screw operates.

✔ Durable large sized bearing

We use durable, large sized bearings to meet large diameter air end, to achieve superior performance and long lifespan.

✔ Large capacity, high efficiency

Make the compressor smaller and use high speed is to reduce costs.



Oil-injected Screw Air Compressor Parameters

Model Parameter	RS7A	RS10A	RS15A	RS20A	RS25A	RS30A	RS40A	RS50A	RS60A	RS75A
Air delivery/ Discharge pressure (m ³ /min)/Mpa	0.8/0.7	1.2/0.7	1.65/0.7	2.5/0.7	3.2/0.7	3.8/0.7	5.3/0.7	6.8/0.7	7.4/0.7	10/0.7
	0.78/0.8	1.1/0.8	1.5/0.8	2.3/0.8	3.0/0.8	3.6/0.8	5.0/0.8	6.2/0.8	7.0/0.8	9.6/0.8
	0.62/1.0	0.95/1.0	1.3/1.0	2.1/1.0	2.7/1.0	3.2/1.0	4.5/1.0	5.6/1.0	6.2/1.0	8.5/1.0
	0.5/1.2	0.8/1.2	1.1/1.2	1.72/1.2	2.4/1.2	2.7/1.2	4.0/1.2	5.0/1.2	5.6/1.2	7.6/1.2
Lubricating oil capacity (L)	10			18				30		65
Noise dB(A)	66 ± 2			68 ± 2						72 ± 2
Driving mode	Belt driven		Direct link							
Power Supply	208-240 volts (three-phase) Customizable									
Power (kw/hp)	5.5/7	7.5/10	11/15	15/20	18.5/25	22/30	30/40	37/50	45/60	55/75
Startup mode	Y-Δ Start									
Fan power(kw)	0.07	0.15	0.26	0.26	0.38	0.38	0.38	0.75	0.75	1.5
Fan air flow(m ³ /min)	24	39	75	75	107	107	107	107	182	182
Safety Protection	Over Current Protection, Safety Valve, Relief Valve, High Discharge Temperature & Pressure Protection, Phase Loss/Phase Reverse/Phase Sequence Monitoring									
Size	L in	29,9	34,6	42,5		50,4		55,2		66,1
	W in	23,6	26,4	29,5		33,5		39,4		48,4
	H in	30,7	34,6	39,4		45,7		50,8		61,8
Weight(lb)	440,9	529,1	881,8		1212,5		1322,7		1763,7	3659,7
Output pipe diameter	G1/2		G3/4		G1		G1-1/2		G2	

Model Parameter	RS100A	RS125A	RS150A	RS175A	RS200A	RS250A	RS300A	RS350A	RS430A	RS480A
Air delivery/ Discharge pressure (m ³ /min)/Mpa	13.4/0.7	16.2/0.7	21/0.7	24.5/0.7	28.7/0.7	32/0.7	36/0.7	42/0.7	51/0.7	64/0.7
	12.6/0.8	15.0/0.8	19.8/0.8	23.2/0.8	27.6/0.8	30.4/0.8	34.3/0.8	40.5/0.8	50.2/0.8	61/0.8
	11.2/1.0	13.8/1.0	17.4/1.0	20.5/1.0	24.6/1.0	27.4/1.0	30.2/1.0	38.2/1.0	44.5/1.0	56.5/1.0
	10.0/1.2	12.3/1.2	14.8/1.2	17.4/1.2	21.5/1.2	24.8/1.2	27.7/1.2	34.5/1.2	39.5/1.2	49/1.2
Lubricating oil capacity (L)	65	72	90		110		125	150		
Noise dB(A)	72 ± 2			75 ± 2			82 ± 2		84 ± 2	
Driving mode	Direct link									
Power Supply	208-240 volts (three-phase) Customizable									
Power (kw/hp)	75/100	90/125	110/150	132/175	160/200	185/250	220/300	250/350	315/430	355/480
Startup mode	Y-Δ Start									
Fan power(kw)	1.5	2.2	0.75*2		0.75*2		Customized			
Fan air flow (m ³ /min)	182	270	500		500		Customized			
Safety Protection	Over Current Protection, Safety Valve, Relief Valve, High Discharge Temperature & Pressure Protection, Phase Loss/Phase Reverse/Phase Sequence Monitoring									
Size	L in	72,4		94,5			124			
	W in	48,4		57,9			77,9			
	H in	61,8		72,4			84,6			
Weight(lb)	3968,3	4188,8	5511,6	5952,5	6613,9	7716,2	8818,5	9920,8	13227,7	14330,1
Output pipe diameter	G2		G2-1/2			DN80			DN100	

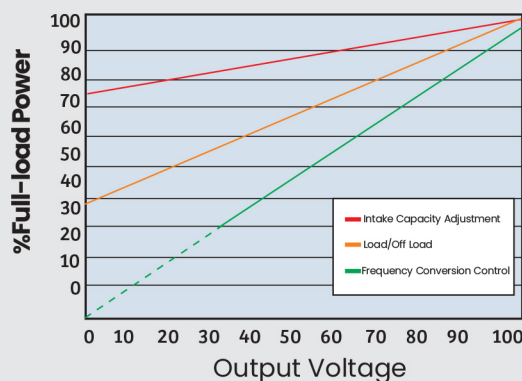
GOLDSTAR PERMANENT MAGNET VARIABLE FREQUENCY SCREW AIR COMPRESSOR

Newest Technology, Excellent
Frequency Conversion System



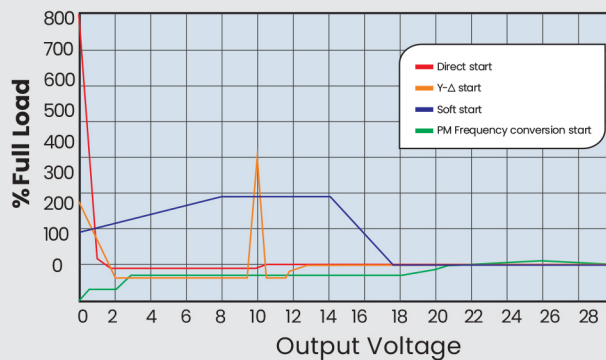
☑ Energy Saving Control

The permanent magnet variable frequency air compressor provides 30-100% linear no-step volume control. According to the change of the customer's compressed air requirement, the power consumption can be automatically controlled, which can significantly reduce the operating cost by up to 35%.



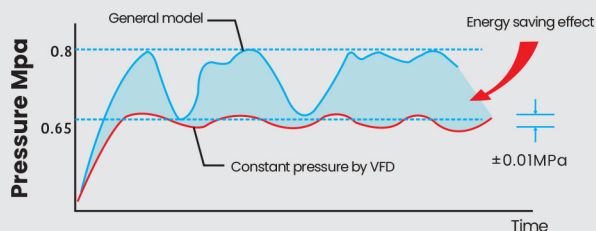
☑ Energy Saving By Constant

The figure shows the pressure comparison between ordinary air compressor and PM variable frequency air compressor. The ordinary air compressor will be frequently loaded and unloaded between the demand pressure and pressure 1.5kg higher, which will cost an extra 10.5% power consumption than PM variable frequency air compressor that stable in demand pressure (7% more power consumption per 1kg pressure increase). Moreover, it will cost 45% energy when the compressor is idling. Therefore, the constant pressure supply not only reduce electricity consumption, but also extend lifespan of the machine and eliminate the adverse effects of unstable pressure.



☑ Frequency Conversion Start

The figure shows a comparison of several startup methods. It can be seen that the permanent magnet variable frequency is start slowly, and it is more stable than the soft start, completely avoiding current peaks. Operate variable frequency conversion after reach rated pressure, can make stepless adjustment through pressure detection, output constant pressure as required, eliminates the consumption of continual loading and unloading control.



Magnet Variable Frequency Screw Air Compressor Parameters

Model Parameter	RS10E	RS15E	RS20E	RS25E	RS30E	RS40E	RS50E	RS60E	RS75E	RS100E
Air delivery/ Discharge pressure (m ³ /min)/Mpa	1.2/0.7	1.65/0.7	2.5/0.7	3.2/0.7	3.8/0.7	5.3/0.7	6.8/0.7	7.4/0.7	10/0.7	13.4/0.7
	1.1/0.8	1.5/0.8	2.3/0.8	3.0/0.8	3.6/0.8	5.0/0.8	6.2/0.8	7.0/0.8	9.6/0.8	12.6/0.8
	0.95/1.0	1.3/1.0	2.1/1.0	2.7/1.0	3.2/1.0	4.5/1.0	5.6/1.0	6.2/1.0	8.5/1.0	11.2/1.0
	0.8/1.2	1.1/1.2	1.72/1.2	2.4/1.2	2.7/1.2	4.0/1.2	5.0/1.2	5.6/1.2	7.6/1.2	10.0/1.2
Lubricating oil capacity (L)	10	18				30			65	
Noise dB(A)	66 ± 2	68 ± 2						72 ± 2		
Driving mode	Direct link									
Power Supply	208-240 volts (three-phase) Customizable									
Power (kw/hp)	7.5/10	11/15	15/20	18.5/25	22/30	30/40	37/50	45/60	55/75	75/100
Startup mode	Y-Δ Start, Frequency conversion start									
Fan power(kw)	0.15	0.26	0.26	0.38	0.38	0.38	0.75	0.75	1.5	1.5
Fan air flow(m ³ /min)	39	75	75	107	107	107	107	182	182	182
Safety Protection	Over Current Protection, Safety Valve, Relief Valve, High Discharge Temperature & Pressure Protection, Phase Loss/Phase Reverse/Phase Sequence Monitoring									
Size	L in	34,6	38,6		44		50,4		70,9	
	W in	26,4	29,5		33,5		39,4		47,2	
	H in	36,2	39,4		45,7		50,8		61,8	
Weight(lb)	440,9	771,6		1102,3		1212,5		1653,5		3968,3
Output pipe diameter	G 1/2	G 3/4		G1		G1-1/2		G2		

Model Parameter	RS125E	RS150E	RS175E	RS200E	RS250E	RS300E	RS350E	RS430E	RS480E	RS540E
Air delivery/ Discharge pressure (m ³ /min)/Mpa	16.2/0.7	21/0.7	24.5/0.7	28.7/0.7	32/0.7	36/0.7	42/0.7	51/0.7	64/0.7	71.2/0.7
	15.0/0.8	19.8/0.8	23.2/0.8	27.6/0.8	30.4/0.8	34.3/0.8	40.5/0.8	50.2/0.8	61/0.8	68.1/0.8
	13.8/1.0	17.4/1.0	20.5/1.0	24.6/1.0	27.4/1.0	30.2/1.0	38.2/1.0	44.5/1.0	56.5/1.0	62.8/1.0
	12.3/1.2	14.8/1.2	17.4/1.2	21.5/1.2	24.8/1.2	27.7/1.2	34.5/1.2	39.5/1.2	49/1.2	52.2/1.2
Lubricating oil capacity (L)	72	90		110		125		150		180
Noise dB(A)	72 ± 2		75 ± 2			82 ± 2			84 ± 2	
Driving mode	Direct link									
Power Supply	208-240 volts (three-phase) Customizable									
Power (kw/hp)	90/125	110/150	132/175	160/200	185/250	220/300	250/350	315/430	355/480	400/540
Startup mode	Y-Δ Start, Frequency conversion start									
Fan power(kw)	2.2	0.75*2	0.75*2	Customized						
Fan air flow(m ³ /min)	270	500	500	Customized						
Safety Protection	Over Current Protection, Safety Valve, Relief Valve, High Discharge Temperature & Pressure Protection, Phase Loss/Phase Reverse/Phase Sequence Monitoring									
Size	L in	70,9	94,5			124				
	W in	48,4	57,9			78				
	H in	61,8	72,4			84,6				
Weight(lb)	4188,8	5511,6	5952,5	6613,9	7716,2	8818,5	9920,8	13227,7	14330	15873,3
Output pipe diameter	G2	G2-1/2			Dn85				DN100	

GOLDSTAR TWO-STAGE COMPRESSION SCREW AIR COMPRESSOR

*Energy Saving, Low Noise
and Reliable*



INTRODUCTION

✓ **Two-stage screw air compressor not only has the advantages of simple structure, flexible installation and high efficiency, but also highlights its own advantages of high efficiency and energy saving:**

1. Can reduce the bearing load and increase the volumetric efficiency;
2. It can improve efficiency and save energy when running under partial load conditions.

Two-stage screw air compressor can save up to 15% energy compared with double-screw air compressor. Each year, it can run for 8000 hours, saving about 28,000 usd per year in electricity costs.

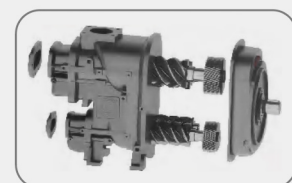
✓ **Advantages of two-stage screw air compressor**

1. Two stage compression to save compression

work Divide the process into two compression processes, can reduce the compression ratio of each single-stage, which can significantly reduce the power needed for compression. For ideal gas, the power required for single-stage compression is equal to the multi-stage compression. But in the actual compression process coupling transfer, bearing friction will cause useless work, Therefore, by reducing the compression ratio of each stage can reduce the useless work, so that multi-stage compression use less power than single-stage compression.

2. Intermediate oil cooling

Reduce the temperature of compressed air to next stage. When the air is compressed, the temperature will rise due to friction, temperature rise will increase the pressure of the gas and increases the compression ratio. It will need extra power to drive the device to compress the air to the desired pressure. Therefore, it provide intermediate oil cooling with the two-stage screw air compressor to reduce the temperature of compressed air to next stage.



Two-stage Compression Screw Air Compressor Parameters

Model Parameter	RS20VH	RS25VH	RS30VH	RS40VH	RS50VH	RS60VH	RS75VH	RS100VH
Air delivery/ Discharge pressure (m ³ /min)/Mpa	3/0.7	3.6/0.7	4.2/0.7	6.5/0.7	7.2/0.7	9.8/0.7	12.8/0.7	17.5/0.7
	2.9/0.8	3.5/0.8	4.1/0.8	6.4/0.8	7.1/0.8	9.7/0.8	12.5/0.8	16.5/0.8
	2.4/1.0	2.9/1.0	3.2/1.0	4.9/1.0	6.3/1.0	7.8/1.0	9.6/1.0	12.5/1.0
	2.2/1.2	2.5/1.3	3.2/1.3	4.2/1.3	5.4/1.3	6.5/1.2	8.6/1.3	11.2/1.3
Lubricating oil capacity (L)	18			30			65	
Noise dB(A)	68 ± 2					72 ± 2		
Driving mode	Direct link							
Power Supply	208-240 volts (three-phase) Customizable							
Power (kw/hp)	15/20	18.5/25	22/30	30/40	37/50	45/60	55/75	75/100
Startup mode	Y-Δ Start, Frequency conversion start							
Fan power(kw)	0.26	0.38	0.38	0.38	0.75	0.75	1.5	1.5
Fan air flow(m ³ /min)	75	107	107	107	107	182	182	182
Safety Protection	Over Current Protection, Safety Valve, Relief Valve, High Discharge Temperature & Pressure Protection, Phase Loss/Phase Reverse/Phase Sequence Monitoring							
Size	L in	58,3			67,7			82,7
	W in	33,5			43,7			53,1
	H in	46,5			58,3			67,7
Weight(lb)	1719,6			2380,9			4585,6	
Output pipe diameter	G1-1/2			G2			G1-1/2	

Model Parameter	RS125VH	RS150VH	RS175VH	RS200VH	RS250VH	RS270VH	RS300VH	RS350VH
Air delivery/ Discharge pressure (m ³ /min)/Mpa	20.8/0.7	24.5/0.7	30/0.7	34.5/0.7	41/0.7	44.6/0.7	48/0.7	55/0.7
	19.8/0.8	23.5/0.8	28/0.8	33.6/0.8	38.4/0.8	43/0.8	47/0.8	54/0.8
	16.9/1.0	19.7/1.0	23.5/1.0	30/1.0	32.5/1.0	38.5/1.0	41/1.0	46/1.0
	14.3/1.3	17.6/1.3	19.8/1.3	23.8/1.3	28.6/1.3	32.8/1.3	38/1.3	40/1.3
Lubricating oil capacity (L)	102	120			140	170		
Noise dB(A)	72 ± 2			75 ± 2			82 ± 2	
Driving mode	Direct link							
Power Supply	208-240 volts (three-phase) Customizable							
Power (kw/hp)	90/125	110/150	132/175	160/200	185/250	200/270	220/300	250/350
Startup mode	Y-Δ Start, Frequency conversion start							
Fan power(kw)	2.2	0.75*2	0.75*2	Customized				
Fan air flow(m ³ /min)	270	500	500	Customized				
Safety Protection	Over Current Protection, Safety Valve, Relief Valve, High Discharge Temperature & Pressure Protection, Phase Loss/Phase Reverse/Phase Sequence Monitoring							
Size	L in	96,9	114,2		149,6			
	W in	66,9	70,9		78			
	H in	74,8	79,5		84,6			
Weight(lb)	7231,2	7672,1	8774,4	9435,8	12015,2	12345,9	14330,1	14550,5
Output pipe diameter	DN65		DN80		Dn100		Dn125	

INTERNAL IMAGE OF PRODUCT



Heavy-duty Air Intake Filter

Heavy-duty filter and high-quality filter element; Large diameter and low pressure drop design air-intake capacity control valve, optimizes the suction efficiency and reduces energy consumption.



High Efficient Oil Filtration System

The high-precision oil filter system effectively filters out impurities and oil deteriorating substances in the lubricating oil to protect reliable operation of the compressor and ensure a long lifespan.



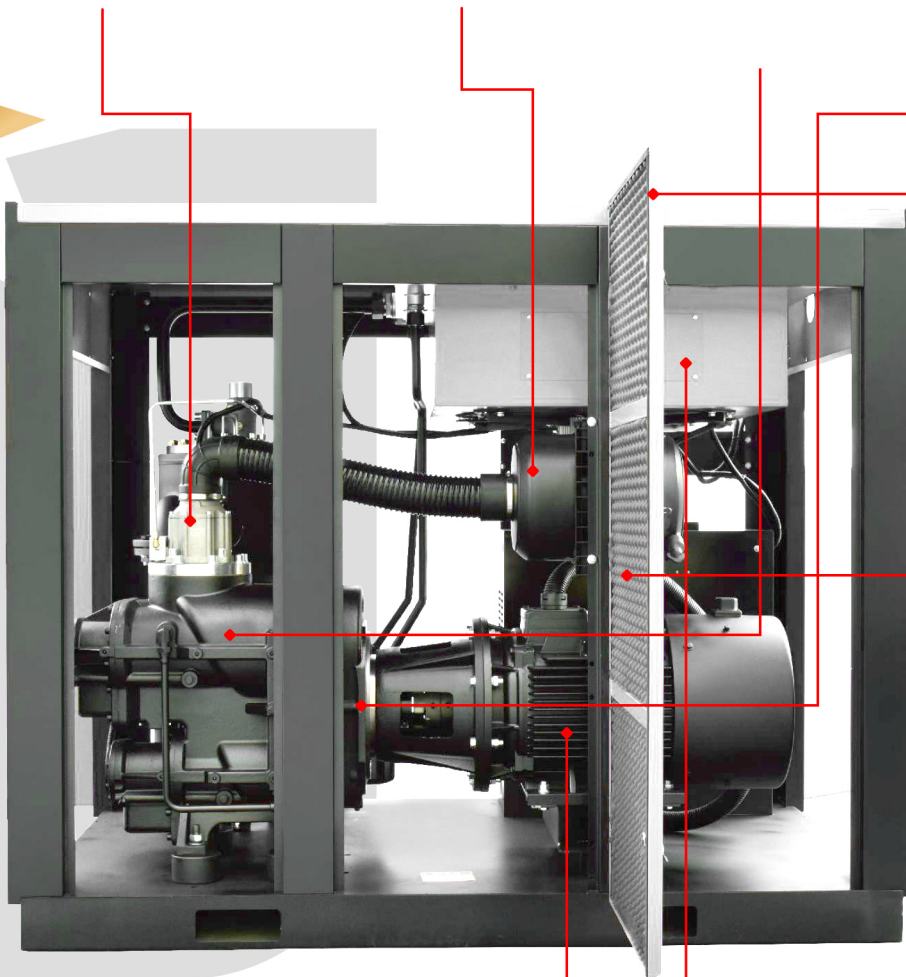
Two-stage compression to save compression work

Divide the process into two compression processes, can reduce the compression ratio of each single-stage, which can significantly reduce the power needed for compression.



Heavy-duty Oil-gas Separator

High efficiency oil and gas separation system, with large size oil air separator element and oil return device, reduce the flow velocity of the compressed air and reduce the oil content in the discharge.



Industrial Integrated Circuit, Anti-electromagnetic Interference

User-friendly operation interface, real-time monitoring, provide important information alarm, storage, query functions. Use industrial RS485 communication interface and MODBUS protocol to communicate with the host.



High-quality Motor And Electric Control System

Class F insulation high efficiency motor, with superior SKF bearings and world-renowned high quality electrical components, meet CE, UL and CAS standards.



Permanent Magnet Frequency Conversion Motor

Automatic power consumption control for energysaving can significantly reduce operating costs by up to 35%.



Heavy-duty Air Intake Filter

Use heavy-duty low temperature difference (6 - 8°C) oil cooler and air cooler, unique structural design and reasonable layout, equipped with temperature control cooling fan, to achieve optimal oil temperature control, extended 30% lubricant life time. Ensures the heat dissipation of all components and electrical equipment inside the machine, making the compressor's exhaust temperature lower and perform better.

The Advantages of Permanent Magnet Variable Frequency Screw Air Compressor Compared to Ordinary Screw Air Compressor



Reduced Energy Consumption

By the variable frequency speed control technology, the air compressor can start and stop for unlimited times, achieving 0-100% stepless speed change.

The compressor's displacement can be perfectly combined with the user's air requirement (the air discharge will change by the speed of motor). Compared with common screw air compressors, it saves electricity by about 30%.



Extend the Lifespan of The Compressor

The inverter will start the compressor from idle to full load, and its starting acceleration will gradually increase (effectively reducing the peak value of the starting current to a minimum). This reduces the impact on the electrical and mechanical components of the compressor at start-up, enhances system reliability, and extends the lifespan of the compressor.



Reduce Operating Costs

The cost of a compressors consists of three parts: initial purchasing costs, maintenance costs, and energy costs. Among them, energy costs account for approximately 80% of the compressor costs, and maintenance and procurement costs account for 20%. With frequency conversion, energy costs are reduced by more than 30%. In addition, the impact on the equipment after the frequency conversion start is reduced, and the repair and maintenance amount also decrease, so the operating cost will be greatly reduced.



Reduces the Noise of The Air Compressor

The speed of motor will decrease when the air requirement reduce, can effectively reducing the noise of the air compressor by about 3 to 7 dB.

LASER CUTTING ALL-IN-ONE COMPRESSOR SCREW AIR COMPRESSOR

*High efficiency, High integration,
Energy saving and Space saving*

LASER CUTTING ALL-IN-ONE COMPRESSOR

Closer to the gas point

The pressure loss of the small compressor on the pipe is very obvious, all-in-one series bid farewell to the traditional pipeline system layout, plug and play, closer to the gas point, and reduce this part of the loss. Provide continuous constant pressure air supply to improve work efficiency.

High Efficiency

The third generation of high efficiency machine head, advanced tooth shape, five teeth of main rotor, six teeth of secondary rotor, compared with the traditional four pairs of six teeth, improve the efficiency of 10%-20%, improve the compression efficiency. Low noise, low vibration, long life.

High Configuration

High performance air dryer with imported precision filter, stable performance, reliable operation, reduce pressure difference, reduce loss. The output of high quality compressed air, better protection of laser cutting lens and cutter head.

High-Integration

Modular structure design, compact and beautiful, easy to maintain. High reliability, high efficiency and low noise. Smaller area, easier to install, provide customers more ideal practical environment, save more space.



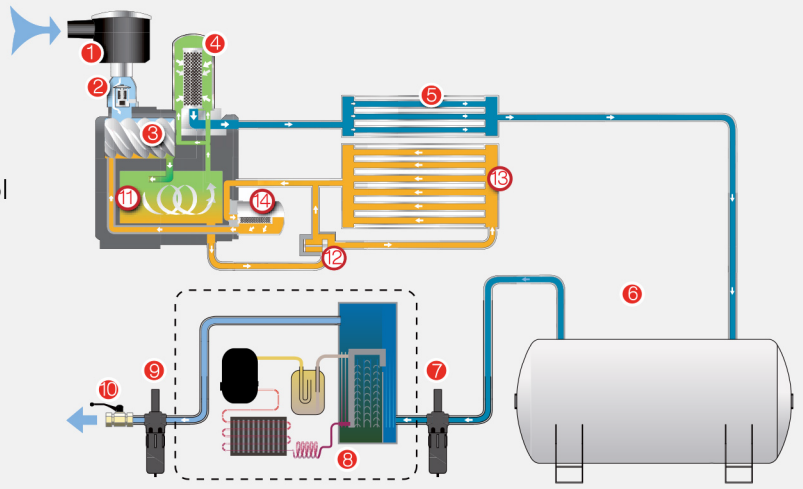
FLOW DIAGRAM

Gas system

1. air filter
2. intake valve
3. airend
4. oil gas separator
5. cooler
6. air tank (can choose)
7. precision filter (can choose)
8. air dryer (can choose)
9. rear precision filter (can choose)
10. air outlet

Oil system

- 11.oil gas tank
- 12.thermal control valve
- 13.oil cooler
- 14.oil filter



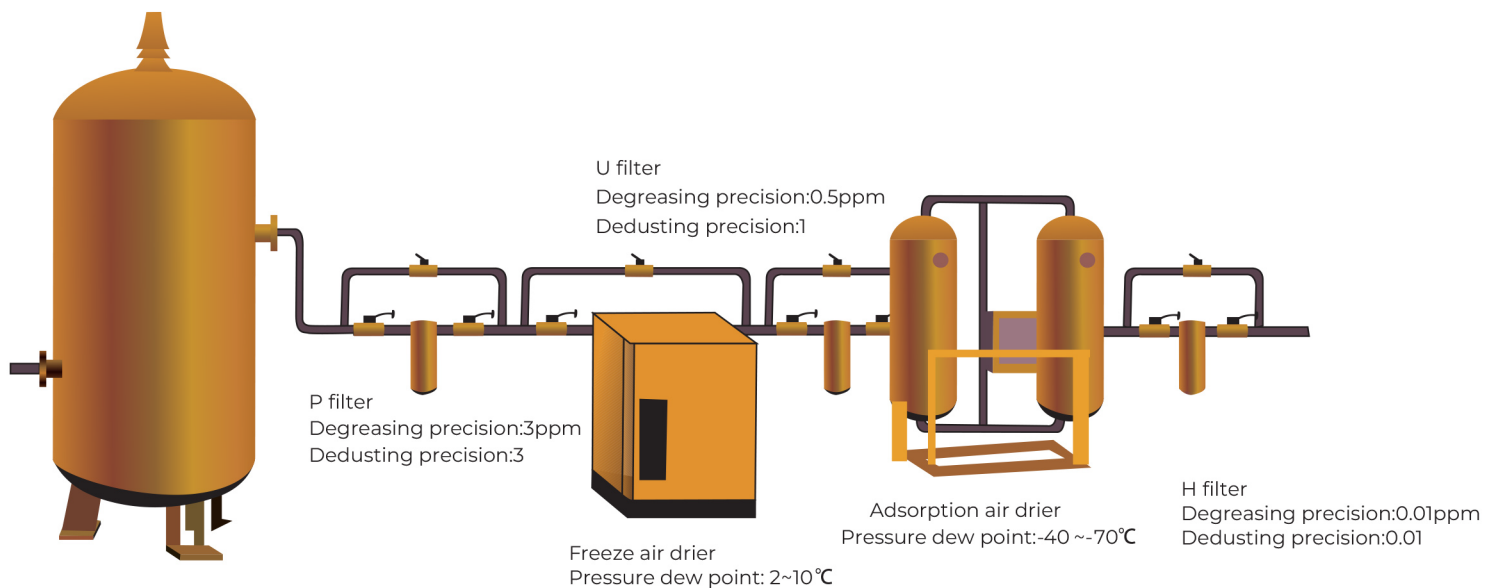
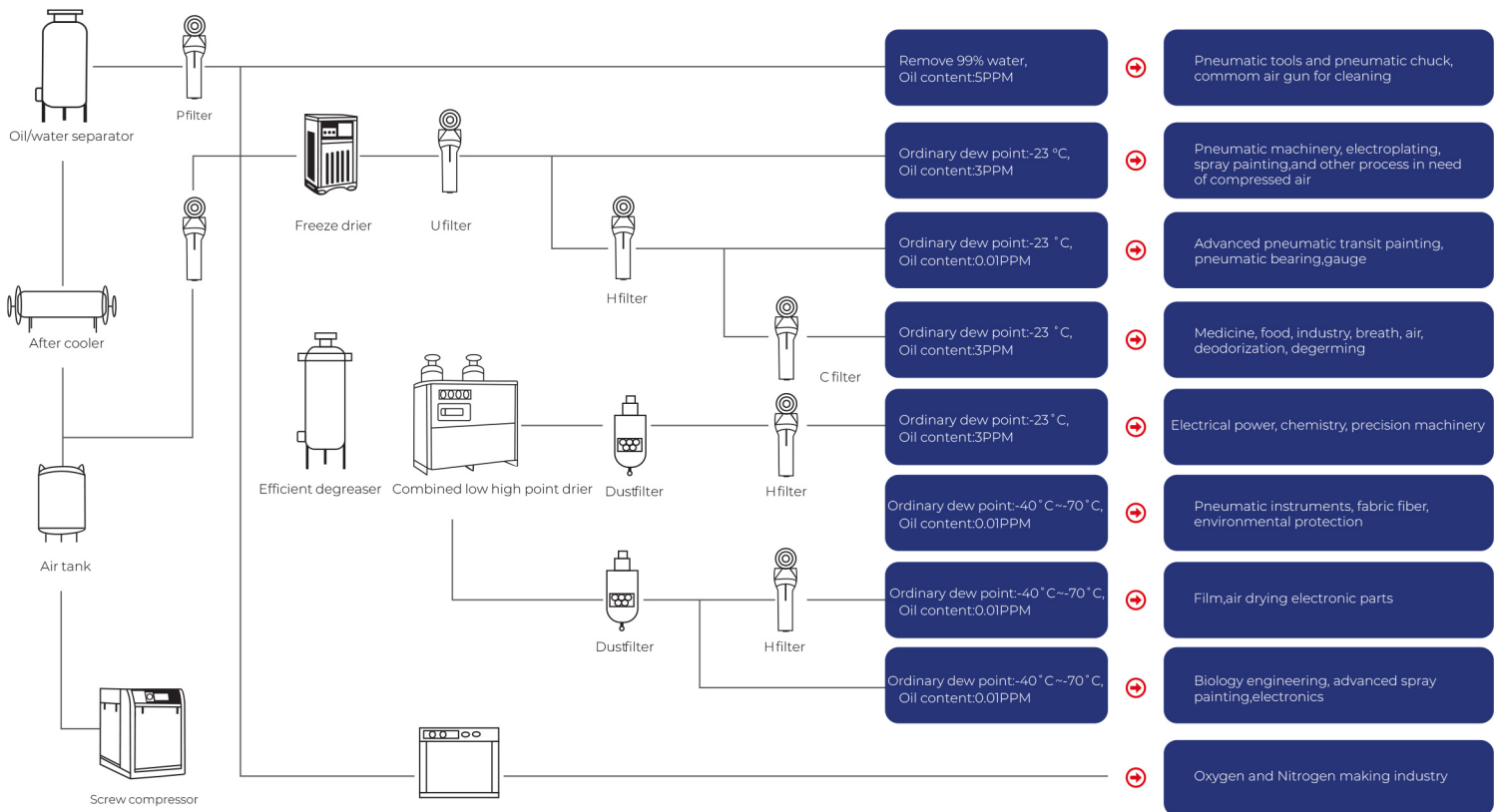
2 In 1 Screw Air Compressor Parameters

Parameter Model	Motor Power kw	Max pressure Mpa	Air Delivery m ³ /min	Tank L	Outlet Pipe inch
RG10E	7.5	0.8	1.1	170	R3/4(DN20)
		1.0	0.95		
		1.2	0.8		
RG15E	11	0.8	1.5	290	R1(DN25)
		1.0	1.3		
		1.2	1.1		
RG20E	15	0.8	2.3	290	R1(DN25)
		1.0	2.1		
		1.2	1.72		
RG30E	22	0.8	3.6	380	R1(DN25)
		1.0	3.2		
		1.2	2.7		

3 In 1 Screw Air Compressor Parameters

Parameter Model	Motor Power kw	Max Pressure Mpa	Air Delivery m ³ /min	Tank L	Outlet Pipe Inch
RG10EF	7.5	0.8	1.1	250	R3/4(DN20)
		1.0	0.95		
		1.2	0.8		
RHG10EF		1.6	0.5		
RG15EF	11	0.8	1.5	340	R3/4(DN20)
		1.0	1.3		
		1.2	1.1		
RHG15EF		1.6	0.85		
RG20EF	15	0.8	2.3	340	R3/4(DN20)
		1.0	2.1		
		1.2	1.72		
RHG20EF		1.6	1.35		
RG30EF	22	0.8	3.6	480	R1(DN25)
		1.0	3.2		
		1.2	2.7		
RHG30EF		1.6	1.8		

COMPRESSED AIR SYSTEM CONFIGURATION





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