



OIL FREE WATER LUBRICATION

SCREW AIR COMPRESSOR

- High quality
- Exhaust air
- Stable operation
- High efficiency
- Low maintenance costs
- Low investment risk



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OIL FREE WATER LUBRICATION SCREW AIR COMPRESSOR

SO FAR NO ONE BEYOND

- Safe and oil free air quality
- Original imported air end
- Meeting environmental protection requirement
- Low noise design
- Low cost of maintenance
- Long service life

100%
oil free

Japan
**MITSUI
SEIKI**
air end



INTRODUCTION

Oil free screw air compressor are widely used in industries that require high quality air sources such as: pharmaceutical, food, electronics, chemical, packaging, etc. 100% pure compressed air is a necessary procedure to guarantee satisfactory crafts and product quality, which ensures the production of high-end products safely and risk-free.

The lubrication system of an oil free screw air compressor is an individual fuel recycling unit. The compression chamber and the bearings were separated by a set of sealed high-performance mechanical assembly. The lubricating oil can only flow in the enclosed area and is prevented to enter the compression chamber, which only contains 100% pure compressed oil-free air. The users could obtain 100% pure compressed air with some slight post-treatment of water and dust removal.

THE BEST APPLIED INDUSTRIES



Steel and Petrochemical industry

Electronic and Electric industry

Paper Making and Textile industry

Food and Chemical industry

Medical industry



High Performance Air End

ZRCW series air end is tested by the market for more than 10years. The air quality, energy conservation and high reliability proves its advanced technology. High compatibility of air and water, and the water which is easy to obtain, make it become the trend of the further compressed market.

Oil Free: Totally Oil Free

ZRCW oil free water lubrication screw air compressor is a kind of compressor that provides clean, pollution-free, 100% oil free screw air compressor, its zero emission can protect the environment efficiently.

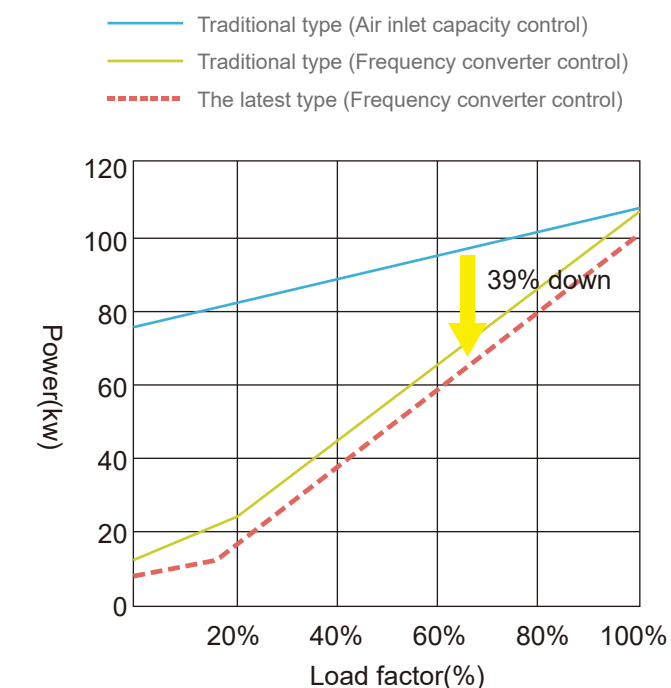
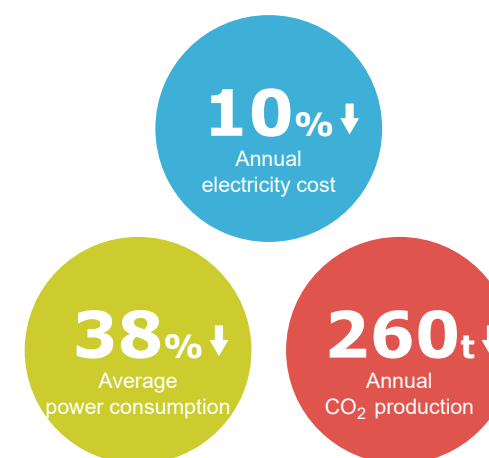


Top Compression Structure in the World: Z Air End

High-tech crystal.

Widely used in the world.

"Z air end" is composed of one active rotor and two sets high-precision passive rotors, to achieve the characteristics of dynamic equilibrium, small vibration, low noise and long service life.



■ 220KW Situation

■ 110KW Situation

Reduce Environment Load and Relieve the Earth Greenhouse Effect

In China, the electric consumption of air compressor has occupied 8% of total electric consumption. Electric consumption in enterprise occupied 20% ~30% of total electric consumption, so it is the first choice to reduce air compressor electric consumption to realize energy saving. High efficiency and energy saving oil free air compressor has reduced CO₂ emission and relieve the earth greenhouse effect. 100% oil free design, ideal zero emission and no pollution project really realize environmental protection and reduce power consumption. Meanwhile, 40 °C lower temperature compression also avoids temperature rise, fire and other dangerous factors.

COMPONENTS

- High efficiency and no abrasion
- Totally oil free design
- Resistance to corrosion

- No loud noise
- No abandoned oil
- No waste

- Better specific power
- Wider frequency range
- Less pipeline



■ Motor and Air End

Directly connected with high transmission efficiency.



■ All Stainless Steel Pipe

Simple, non-corrosion, non-pollution, high reliability.



■ Intelligent Monitor

Clear and easy to operation.
High quality touch screen.
Remote control RS485 available.



■ Centrifugal Fan

The centrifugal fan has super light structure, but also greater structure strength than axial fan. Its good dynamic balance performance can achieve low vibration and low noise. Moreover, centrifugal fan has better aerodynamic performance than axial fan, so the centrifugal fan is with lower power consumption, higher efficiency and more reliable service life, which is a good choice for screw compressors.



■ Intelligent Control

ABB AC contactors high sensitivity, high reliability and lower failure rate.



■ Cooler

Cooper material with high thermal effects to ensure isothermal compression and high temperature working.



■ Pressure Vessel

All stainless steel 316 to eliminate corrosion.
Cyclone separation design to ensure water and gas separated and dry air discharged.
Three level induction alarm to control reasonable water level.
CE certification available for option.

SPECIFICATIONS

Motor Efficiency Class: IE5/IE4/IE3/IE2 as per your required
Type of Driving: Direct driven

Motor Protection Class: IP23/IP54/IP55 or as per your required
Type of Cooling: Air Cooling/Water Cooling

Model	Working Pressure		Air Delivery		Motor Power	Dimension(mm)			Weight(kg)	Output pipe Diameter
	psig	bar	cfm	m ³ /min		L	W	H		
ZRCW-25SA	100	7	109.5	3.1	18.5/25	1600	910	1350	840	1"
	116	8	102.4	2.9						
	145	10	95.4	2.7						
	181	12.5	81.2	2.3						
ZRCW-30SA	100	7	134.2	3.8	22/30	1450	1000	1560	840	1"
	116	8	127.1	3.6						
	145	10	113.0	3.2						
	181	12.5	88.3	2.5						
ZRCW-40SA	100	7	187.1	5.3	30/40	1950	1050	1432	980	1 1/4"
	116	8	176.6	5.0						
	145	10	151.8	4.3						
	181	12.5	127.1	3.6						
ZRCW-50SA	100	7	223.0	6.6	37/50	1700	1100	1630	1000	1 1/4"
	116	8	218.9	6.2						
	145	10	201.3	5.7						
	181	12.5	162.4	4.6						
ZRCW-60SA	100	7	282.7	8.0	45/60	2150	1300	1590	1060	1 1/2"
	116	8	271.9	7.7						
	145	10	243.6	6.9						
	181	12.5	211.9	6.0						
ZRCW-75SW	100	7	370.8	10.5	55/75	2200	1400	1540	1250	2"
	116	8	346.0	9.8						
	145	10	307.2	8.7						
	181	12.5	257.8	7.3						
ZRCW-100SW	100	7	480.2	13.6	75/100	2400	1450	1740	1480	2"
	116	8	459.0	13.0						
	145	10	409.6	11.6						
ZRCW-120SW	100	7	572.0	16.2	90/120	2550	1400	1605	2030	DN50
	116	8	547.3	15.5						
	145	10	494.3	14.0						
ZRCW-150SW	100	7	734.4	20.8	110/150	2700	1550	1750	2450	DN65
	116	8	688.5	19.5						
	145	10	582.6	16.5						
ZRCW-175SW	100	7	847.4	24.0	132/175	2600	1650	1750	2850	DN65
	116	8	812.1	23.0						
	145	10	706.2	20.0						
ZRCW-200SW	100	7	981.6	27.8	160/200	3300	2200	2000	3750	DN65
	116	8	935.7	26.5						
	145	10	829.8	23.5						

SPECIFICATIONS

Model	Working Pressure		Air Delivery		Motor Power	Dimension(mm)			Weight(kg)	Output pipe Diameter
	psig	bar	cfm	m ³ /min		L	W	H		
ZRCW-270SW	100	7	1218.2	34.5	200/270	2850	1700	2000	4400	DN80
	116	8	1165.2	33.0						
	145	10	988.7	28.0						
ZRCW-330SW	100	7	1518.3	43.0	250/330	3150	2000	2120	5450	DN100
	116	8	1412.4	40.0						
	145	10	1306.5	37.0						

Certification: CE/ISO9001/TUV/UL/SGS/ASME
Voltage: 380V/3PH/50HZ/60HZ 220V/3PH/50HZ/60HZ 400V/3PH/50HZ/60HZ 440V/3PH/50HZ/60HZ 415V/3PH/50HZ/60HZ 230V/3PH/50HZ/60HZ

OIL FREE WATER LUBRICATION
VSD COMPRESSOR



Oil free water lubrication screw air compressor can be also made with frequency converter to save energy. Compared with fix speed oil free compressor, it has following advantages:

- It can adjust the rotation speed of motor according to the air consumption, so the rotation speed of motor and air end are not always high speed, to decrease noise and enlarge the service life of motor and air end.
- Variable frequency starting can reduce the starting current and the impact to power grid.
- Keep constant working pressure.