

SA / SAV SERIES

SCREW OIL INJECTED COMPRESSOR

FIXED SPEED ~ VARIABLE SPEED

7.5 kW - 200 kW

7 Bar - 12 Bar



HIGHLY ENERGY-SAVING DRIVEN



High Efficiency Airend Induce Air Flow from Axial and Radial directions

High efficiency airend is designed by Fusheng Global R&D Center in Germany. The optimum design of rotor profile, volume and power consumption provides low rotational speed and increase the operating efficiency.

- Lower operational noise level.
- Longer service life of airend and bearings.
- Fully utilize effective rotor length to maximize the compression efficiency.

Inlet valve

One valve serves as non-return valve, shut-off valve and modulation control valve (optional) all together. The low pressure drop design optimizes air intake efficiency. The compressor adjusts itself automatically with the actual need for compressed air as it operates, allowing for more accurate control of unload pressure and thus greater energy efficiency.



- Simple structure for high reliability
- Compact body design from coupling, motor bracket, motor to gearbox for 100% transmission efficiency.
- The amount of lubricant for bearings, compression chamber and gears are carefully calculated to minimize the oil resistance during compression and maximize the efficiency.

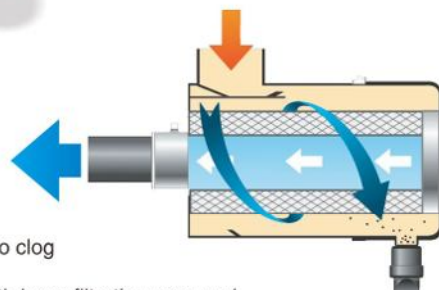


*for direct couple type



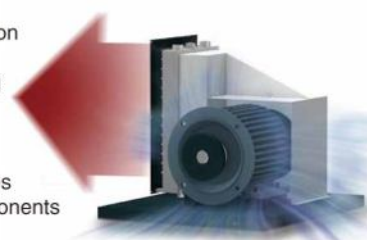
Safe and high-efficiency air filter system

- The big particle size of dust in the vacuumed air will follow the air whirl and fall into the rubber slot at front end of air filter casing instead of attaching to clog the surface of filtration core.
- The long service life filtration core is designed with large filtration area and smaller resistance against air suction to ensure that the pure air whirl is without impurities.



eCOOL TECHNOLOGY - A COOL INNOVATION

- Compressors generate heat. FUSHENG exclusive eCOOL technology provides protection from heat. By combining smart compressor layout with intelligent selection, eCOOL technology maximizes cooling airflow for greater energy efficiency, improved reliability and extended service life.
- EXTENDED SERVICE LIFE
- eCOOL technology reduces thermal stress and increases service life up to 50% longer for motor and electrical components and up to 30-50% longer for bearings, hoses and seals.



SA08 - 11 ALL IN ONE

- Integrated high efficiency air-end is designed by Fusheng global research center in Germany. Rotary screw air-end, oil receiver, air/oil separator, oil filter, air filter and suction valve are integrated into one state-of-the-art compressor unit with cooling and electric driven systems.
- The three external mounted filters are designed for easy maintenance, with no internal pipe pressure lost. Footprint saving design is the first key point of a small but high efficiency air compressor. Meanwhile, it also provides sufficient space for maintenance.

INTELLIGENT AND RELIABLE

- Space-saving, economical 4-in 1 solution

SMART & COMPACT ADVANTAGE

- The SA08-11 can be installed directly where you need the compressed air. This means that you will save your investments in expensive compressed air piping.
- Compressor configuration is designed for compact, service, efficiency and minimizes vibration.
- Robust drive motor, fan-less, low power consumption.
- Quality components guarantee for divers working environment.

- Heat-resistant oil tube.
- Available with refrigerant dryer, pre/after filters to provide the air treatment in any condition.
- The perfect compressed air solution with improved air quality

QUIET, EFFICIENT AND EFFECTIVE

- Stable air pressure, steady airflow, and low noise
- Continuous duty operation
- Space-saving design
- Idea for automotive, light industrial and other applications that require reliable performance in demanding conditions.

ZW / ZWV SERIES

OIL FREE COMPRESSOR

FIXED SPEED ~ VARIABLE SPEED

15 kW - 160 kW

7 Bar - 9.5 Bar

100% OIL-FREE COMPRESSED AIR
CERTIFIED IN COMPLIANCE
WITH ISO 8573-1
2010 TUV
NO. 3080686



High Reliability:

- ZW-series applies rotary single screw air-end. By being in market ever since 1982, it has undergone practical operating for over 30 years. All of its air quality, power saving and high reliability features have turned out to be state of the art in design and performance. Air and water are becoming a major trend in compressor market due to their high compatibility, availability, reliability and environment friendliness.

High Efficiency:

ZW-series lubricant water has three functions:

- It serves as sealant, coolant and lubricant.
- Sealing function reduces/seals "blow hole" between rotors and housing to absolute minimum, ensuring efficient compression with delivered air volume per horse power increased by 15% as compared to general dry-type screw units.
- Lubricant water also very effectively absorbs and dissipates heat generated during compression process.

Dry air:

- Lubricant water has low viscosity, which enables water and air to separate easily. Water content can be separated preliminarily air has a relative humidity of 100% and, if equipped with a dryer, can be dried up without installing a water discharge device in the pipeline.

Low noise design:

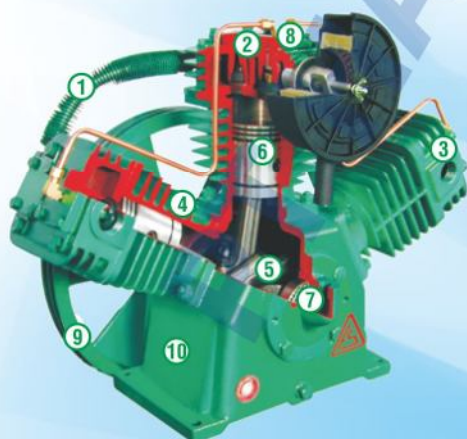
- The air-sealing effect of water lubrication can reduce the compressor rotation speed, and have the structure of compressing chamber realize the design of force balance. The installation of an additional set of new-type soundproof enclosures reduces noise obviously.

Long Interval Maintenance Periods:

- Nearly ideal isothermal compression, direct drive method, smart configuration and precision component design and machining, long bearing service life; all of the above essentially extends intervals between regular periodical maintenance.

Water Lubricated Oil-free Air Compressor Application Industries:

- | | |
|------------------------|---|
| ■ Drying | ■ Petrochemical industry |
| ■ Agitation | ■ Steel and Hi-tech industries |
| ■ Air blowing | ■ Food and Chemical industries |
| ■ Painting dressing | ■ Powdered substance conveyance |
| ■ Chemical analysis | ■ Papermaking and Textile industries |
| ■ Instrument control | ■ Electronics and Appliance industries |
| ■ Bacteria cultivation | ■ Pharmaceutical and Medical industries |



Features:

- 1. Cooling copper tubing**
Equipped with highly efficient heat dissipating fins, the copper tubing allows the heat generated to dissipate effectively, thus improving the air compression efficiency.
- 2. Inlet and outlet valves**
The valve disc is made of special steel imported from Sweden. The disc is machined, milled and removed of stress, giving it high strength, ductility and impact resistance in high temperature.
- 3. Cylinder head**
The concentrated, streamlined air flow allows for efficient heat

dissipation.

- 4. Cylinder**
The inner diameter is machined and milled using CNC techniques, giving the cylinder good wearing resistance and durability.
- 5. Crankshaft**
Forged with high-quality steel, the crankshaft features high strength. The wearing parts are surface-toughened for extremely high wearing resistance. A counterweight minimizes vibrations.
- 6. Piston ring**
The compression ring and oil ring are precision-machined to minimum lubricant consumption. This feature keeps the valve from

carbon deposit or being burned for loss of lubricant.

- 7. Bearing**
High-quality imported bearings are used for longer service life.
- 8. Automatic unloading device**
The sophisticated design ensures the safety of operations.
- 9. Belt-driven pulley for the compressor**
The pulley is carefully balanced and calibrated for stable operations of the compressor.
- 10. Crankcase**
The center hole and surfaces of the bearing are machined in one run by a single CNC workstation, ensuring the alignment and verticality.

VFW SERIES

HIGH PRESSURE OIL FREE AIR PISTON COMPRESSOR

37 kW ~ 220 kW (50 HP - 300 HP)



FUSHENG

Features of VFW series

- Integrated electrical devices create user-friendly operation system.
- Well-developed after service network expands worldwide.
- Single condensed water gateway makes installation easier.
- Monitoring function enables controller to display operation parameters.
- High cooling efficiency and low operating temperature prolong service hours of parts.
- VFW Series is special designed for PET bottle-blowing industry.
- Oil is unneeded during compressed process, which generates 100% oil-free compressed air.
- Operation status & service indication display customer important precaution information & maintenance related message.
- The design of large bore and low r.p.m. reduce machine's workload, which prolongs service hours of valves, piston rings and bearings.
- Sequence control system enables compressors operating equally, which enhances service hours of a machine. (Optional)
- PLC control device equipping with warning and safety functions provides operator with easy-access operation system.
- Assembled design makes machine easier to be installed and delivered with truck and container.
- Adopted high strength composite material enhances liability of components and lifespan of machine. Reciprocating air compressor is with easy dismantle and convenient maintenance characters.
- Auto control function enables a compressor load/unload and long unloading stop automatically for saving energy and prevent compressor damaged by frequently on-off for increasing lifespan and lower maintenance cost.



Product Feature

- Flow control is electro-pneumatic.
- The compressor's unloading system is achieved by clamping the inlet valves in the open position.
- From VFW-50 to VFW-300 = 0-100 % as standard and 0-50-100 % as an option.

Bottle blowing PET blow-molding applications

- A growing market with new applications.
- Based on the transfer from non-recyclable to recyclable PET bottles and containers.
- Main applications are soft drinks, mineral water, beer, milk, fruit juice and other non-food containers (pharmaceuticals and perfumes)



**SINGLE-STAGE
AIR COMPRESSOR**
1 ~ 20 HP
WORKING PRESSURE : 8 BAR



**TWO-STAGE
AIR COMPRESSOR**
3 ~ 20 HP
WORKING PRESSURE : 12 BAR



**OIL-FREE
AIR COMPRESSOR**
3 ~ 15 HP
WORKING PRESSURE : 7 BAR

AIR TREATMENT SYSTEM



AIR-COOLED REFRIGERATION DRYER

Capacity: 0.6 ~ 79.3 m³/min

- Stainless steel heat exchanger shell
- Ozone-friendly refrigerant
- Low pressure loss
- High efficiency
- Nickel-plated brass pipe
- Independent power distribution and high quality accessories
- Flange connection for evaporators in power range of 300HP and above
- State of the art application of secondary condenser on the air outlet
- Unique air heat exchanger with brass pipe and fin design
- Motor with extruded aluminum alloy casing + 120°C thermostat
- Stainless oil-filled type instrumentation



WATER-COOLED REFRIGERATION DRYER

Capacity: 10.7 ~ 425 m³/min

- Unique air heat exchanger with brass pipe and fin design
- State of the art application of secondary condenser on the air outlet
- Cyclone type water separator + moisture isolator
- Stainless oil-filled type instrumentation
- Computerized control panel
- Evaporator with flange connection
- Additional condenser bypass valve



FA Series

- FA series is your best energy saving choose
- The intelligent control avoids unnecessary loss of compressed air, thus permitting considerable energy saving

Filter Grade	Particle removal Down To	Oil Removal Down To (*)	Nominal Initial Pressure Drop
P	3 μ	---	0.03 bar g
U	1 μ	0.5 mg/m³	0.05 bar g
H	0.01 μ	0.01 mg/m³	0.09 bar g
C	---	0.003 mg/m³	0.10 bar g

(*) Referred to 7 bar and 20 Degrees Celcius



FFA Series Compressed Air Filter

High efficiency filtration for clean & technically oil-free compressed air

- Higher effective filtration area
- Lower pressure drop
- Ease of renewing element
- Inner thread design: **Lower piping cost and ease to install.**
- Higher dirt holding capacity
- Possibility of higher air flow
- Differential pressure gauge
- Anti-rust surface treatment



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