

AZF SERIES USER MANUAL

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Foreword

Thank you for using AZF series of Vane air compressor.

This manual allows the operator to understand the operating specifications, installation and maintenance procedures of the air compressor. The operator should read this manual carefully before operating.

Due to the continuous improvement of the products, the company reserves the right to modify this manual.

1. User notes

1.1 Operating Instructions

This manual helps users operate and maintain the equipment correctly and safely. Regular maintenance according to the maintenance schedule is very necessary for the service life of the equipment. If the air compressor works in a poor environment, the service interval should be appropriately shortened, that is, the cycle of replacing the air filter, lubricating oil and oil core should be appropriately reduced.

Repairs and adjustment shall be made by a professional and must use spare parts provided by endurance or its authorized agents.

1.2 Product Use Environment

1.2.1 the air compressor should be installed in a well-ventilated place away from the heat source, and avoiding the battery area. The air compressor emits heat during operation and conflicts with the working environment of the battery, which may cause the battery hi gh temperature problem; And prevent muddy water splashing in the air compressor.

1.2.2 If the compressor is used in a high & cold region, low temperature oil should be used.

Models	Applicable ambient temperature	Recommended Area	
Normal temperature models	25 ~ 60 ℃	Other South Areas	
Cryopenic models	-40 ~ 60 ℃	North Area including Tibet, Xinjiang, Qinghai, Gansu, Ningxia, Inner Mongolia, Liaoning, Jilin and	
Cryopenic models	-40 ~ 60 C	Heilongjiang provinces	

1.3 Safety Instructions

1.3.1 Procedures

- The installation, start-up, operation and operation of air compressor shall be carried out in strict accordance with the safety operating procedures.
- > Installation, operation and maintenance must be performed by qualified and fully trained personnel;
- The owner should perform adequate maintenance or repairs of the air compressor, which is important for safe operation. All used, faulty, damaged and safety-related parts shall be replaced immediately.

1.3.2 Transportation and Handling

- ➤ When loading, unloading, lifting and transporting, the air compressor should be carefully placed in the direction of the arrow. It is strictly prohibited to tilt, and it cannot be inverted to prevent the lubricating oil from flowing out of the inlet and causing damage.
- ➤ Before lifting the parts, please check whether the lifting point is correct.
- When handling and lifting the air compressor, avoid collision and impact, and keep the center of gravity of the air compressor stable. The center of gravity is located near the coupling between the compressor and the motor. The compressor should be firmly fixed on all four sides during transportation.
- ➤ When lifting the air compressor, be careful not to damage the load bearing structure and the housing.

1.3.3 Identification

Beware of high temperature	Beware of electric shock	Be Careful
555		
Direction of rotation	Read the instruction manual	1

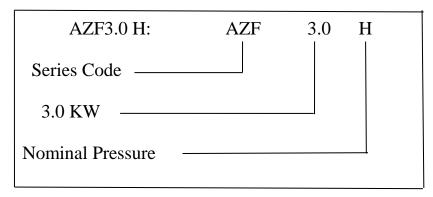
1.4 Statement

Naili is not responsible for personal injury or property damage caused by:

- > Failure to comply with the warning;
- > Incorrect use of compressed air and air compressors;
- Failing to comply with normal safety standards and working regulations;
- ➤ Lack of protection during handling and transportation;
- > Equipment installation error;
- > The connection of power cord and supply of power source are incorrect, and the connection of pipeline is incorrect;
- ➤ No regular maintenance;
- ➤ Unauthorized transformation;
- > Failure to follow the operating instructions, or problems caused by wrong operation;
- ➤ Damage caused by natural disasters

1.5 Air Compressor Nameplate

The nameplate of air compressor can be easily found on the machine. The number behind it represents the motor power in KW: Such as:



2. Product introduction

2.1 Equipment Introduction

AZF Vane air compressor is mainly composed of four parts: air end, motor, cooler and base. The air end and cooler are mounted directly on the flange face of the motor with a bell jar and flange, which are integrally assembled and mounted on a base.

2.2 Working Principle

2.2.1 Compression Principle

The serial number		The working principle of	graphic
1	Air intake	After the air is filtered through the air filter assembly, the air inlet valve assembly enters the air compressor.	11 10 9 8 7 6
2	The compression	The rotor rotates eccentrically in the stator, and its surface has vertical grooves. The sliding piece is placed in the groove and pressed to the inner wall of the stator by centrifugal force. In this way, the stator, the rotor and the sliding piece made the compression chambers, and air will be compressed in the chamber. As the rotor rotates, the volume of the compression chamber formed by two adjacent vanes and stator decreased, thus completing the compression process.	
3	lubrication	Lubrication and cooling during compression is accomplished by an efficient oil filling system which ensures good process control at lower lubricating oil consumption levels. The oil film formed on the inner wall of the rotor avoids the contact of metal parts, thus eliminating the wear phenomenon.	1. Air filtration, 2. Inlet valve, 3. Oil chamber, 4. Compression chamber, 5. Oil cooler, 6. Labyrinth separation chamber, 7. Compressed air, 8. Rotor, 9. Oil and gas separation, 10. Oil Return valve,

		The compressed oil and gas mixture is less than 3PPM after	11. Minimum pressure valve
4	exhaust	multiple separations. The purified air after separation is	
		finally discharged through the minimum pressure valve.	

2.2.2 Lubrications

Sealing, cooling and lubrication are ensured by oil circulation inside the compressor. This process is accomplished by the pressure difference between the compression chamber and the oil chamber. Oil pump is not required.

2.2.3 Oil and Air Separation

The compressed oil and air mixture is discharged from the rotor-stator unit through the labyrinth path, and most of the oil is separated in the labyrinth structure due to constantly changing direction. The mixed gas is sprayed toward the oil cap through the small hole of the gas pipe and subjected to a collision separation. The remaining oil enters the oil filter element; the air is separated by the effect of condensation.

2.2.4 Minimum Pressure Valve

The minimum pressure valve is installed at the outlet of the air compressor. Its function is to maintain a minimum working pressure of 0.6-0.75Mpa in the machine to ensure good lubrication and cooling cycle and better oil and gas separation. The minimum pressure valve cooperates with the internal unloading system to effectively prevent compressed air from flowing back and realize the automatic unloading of the exhaust when the machine is stopped, so that the compressor can be started without load.

2.2.5 Oil Cooler(Exchanger)

The heat which generated during air compression process is transferred to the oil; it can be cooled by the airflow blowing by fan through the oil cooler.

2.2.6 Intake Valve

The air intake valve of the air compressor is a one-way valve. When the compressor is running, negative pressure is generated inside the machine, and the air inlet valve is opened automatically. When the machine stops running, the internal high-pressure gas will quickly closed the intake valve, and the internal oil and air mixture will not spurt out.

2.2.7 Main Components of the Intake and Control System

The intake system of this air compressor uses a high-quality air filter with high filtering precision. Its function is to filter dust and other impurities in entering compressor. Users should preform periodically maintenance or replacement according to the operating conditions. On the outer surface of the air filter can be gently blown off from the inside that outside with low pressure air. If the filter is severely blocked or damaged, it should be replaced in time.

After the compressed oil and gas mixture is coarsely separated by multiple mechanical collisions, the separated oil particles are entered into the working chamber of the air compressor through the oil return filter and the oil return hole under the action of self-weight and pressure. The gas content of the gas discharged by the user is \leq 3ppm. The user should periodically change the oil core according to the regulations or working conditions.

2.3 Purpose and Characteristics

The AZF series Vane air compressors are internationally advanced vane air compressors developed by Naili. Naili is a professional manufacturer integrating design and production of air compressor. It adopts advanced technology and produces high reliability, high economical and high quality air compressor with strong technical strength. The compressor is compact in structure, light in weight, stable and reliable in operation, low in noise, and easy to install. This new generation air compressor is safety, environmental friendly and energy saving.

2.4 Main Technical Specifications:

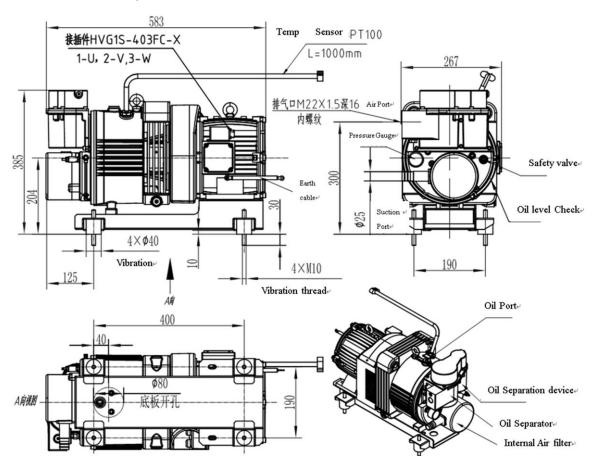
Name Model	Air displacement (m ³ / min)	Exhaust pressure (Bar)	Motor Power (kW)	Oil Content (PPM)	Maximum Temperature (°C)	Vent size	Weight (kg)
AZF2.2 H	0.24	10	2.2	3.0 or less	110	M22 x 1.5 (inside)	42
AZF3.0 H	0.30	10	3.0	3.0 or less	110	M22 x 1.5 (inside)	42
AZF4.0 H	0.38	10	4.0	50 or less	110	M22 x 1.5 (inside)	50
AZF2.2 HH	0.21	12	2.2	3.0 or less	110	M22 x 1.5 (inside)	42
AZF3.0 HH	0.25	12	3.0	3.0 or less	110	M22 x 1.5 (inside)	42
AZF4.0 HH	0.32	12	4.0	50 or less	110	M22 x 1.5 (inside)	50

3. Installation and use

Before you install and use this product, please read this manual carefully and follow the safety requirements:

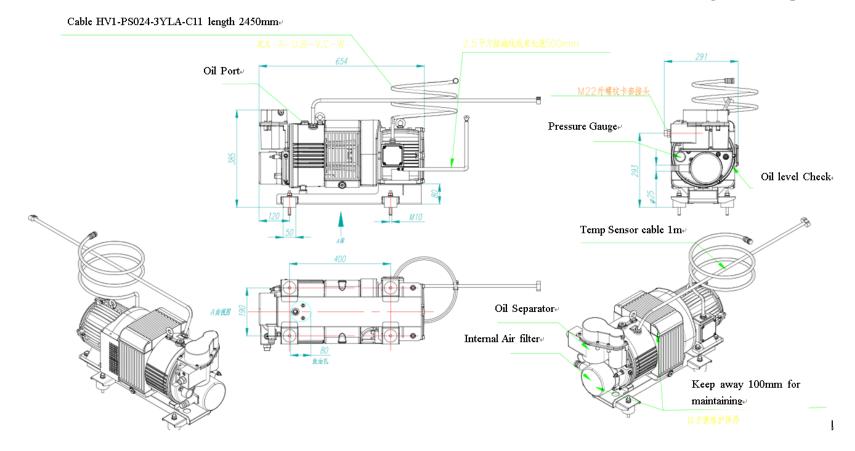
3.1 Installation

AZF2.2 ~ 3.0H, AZF2.2 ~ 3.0HH:



2) AZF4.0H, AZF4.0HH:

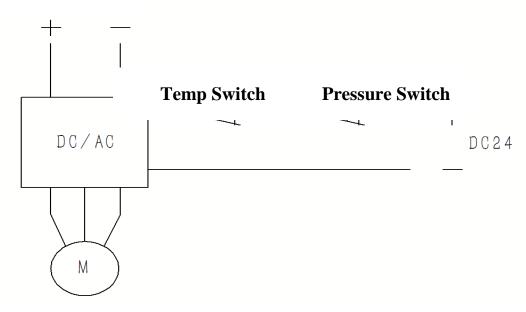
Note: The paragraph recommended the regular size, our company can customize the installation form and size according to user requirements.



3.1.2 Electrical

The installation of electrical equipment must be carried out by professionals with electrician qualifications. The standard electrical connection diagram is as follows:

DC power input



Note: the pressure switch must be installed in the pipeline behind the compressor air outlet of the machine or on the user's air storage tank. It must be debugged and modeled according to the requirements of the frequency converter, input the motor parameters correctly, otherwise the motor will be damaged.

3.1.3 Grounding

Air compressor must be well grounded to ensure its safe operation.

3.1.4 Pipeline

Air pipes must be connected by professionals. The size of the pipeline is suitable for the air displacement and exhaust pressure of the air compressor. The exhaust pipe is as lower as possible below the exhaust port to facilitate the discharge of condensate water, prevent the water from freezing, and easy to replace. It is recommended to connect the hose to the exhaust port to prevent the hard connection of the pipeline from being damaged due to the vibration of the air compressor. For vehicles sold in the northeast region, it is recommended to wrap the exhaust pipe with insulation material or increase the heating insulation device.

3.1.5 Installation Location

The installation position of air compressor must consider the convenience of refueling and oil discharge, and it must be easy to observe the oil level pipe and the pressure gauge. The air compressor must be installed horizontally and firmly connected. There must be more than 100mm space between the front and rear for maintenance and repair. The compressor installation spaced is required to be well ventilated.

3.2 Operation

- ➤ Before starting, check the unit to remove any foreign objects inside it and turn the fan to rotate for at least one week to ensure no interference
 - ➤ Before starting, confirm the air compressor has been filled with right amount of lubricating oil.

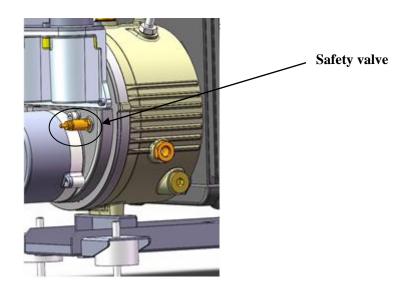
- ➤ Before starting, make sure that the electrical and pipeline connections are correct, the motor steering is consistent with the marking. Otherwise, it will damage the air compressor.
- After starting, check whether there is any air leakage at the pipe connection. If it is, it should be eliminated immediately after the pressure is relieved. When the compressor is running or there is pressure inside the equipment, do not disassemble the parts to avoid the hot oil spray in the machine. After stopping the equipment, in order to prevent the vent valve from being emptied, the ring of the safety valve must be pulled before the machine is disassembled; release the internal air, and then the compressor can be removed.
 - > The working pressure of the air compressor shall not exceed the rated pressure specified on the nameplate.
 - \triangleright The maximum ambient temperature is 60 °C, nominal operating temperature is 75-90 °C;
 - > If abnormality occurs during operation, immediately stop the machine and cut off the power supply by professions.

4. Maintenance

4.1 Safety Valve

The safety valve has been set according to the pressure of the air compressor.

Do not change or replace.



4.2. Maintenance Schedule

		Spare Part Name				Daily maintenance	Routine maintenance		
sequence No.	Maintenance items and contents			Spare Part code	Quantity	1 month or 2000 km/time	1 year or 40,000 km/time	4 year or 160,000 km/time	
1	Internal Air filter core	Internal	Air filter element (built-in)	5106040014	1	-	•	•	
2	External Air filter core	Empty	Air filter element (external)	5106040026	1	0	•	•	
	Lubricating oil	1.5/2.2	Regular 1.85L	5116010009	1				
3		/3.0kw	Low 1.85L	5116010011	1				
3		4.0kw	4 01	Regular 2.3L	5116010016	1	0		•
		4.0KW	Low 2.3L	5116010017	1				
4	Replace the combined	Combine	ed washer 20 (at the oil inlet)	5102030012	1	-	•	•	
4	4 washer		Combined washer 16 (at the oil outlet)		3	-	•	•	
5	Replacement of oil		Dil Separator element	5106060012	1				
3	Separator element	,	on separator element	310000012	1	-	•	•	
6	Replace the o-ring	O ring (15.54	O ring (15.54*2.62)		1	-	•	•	
0	Replace the o-ring	O ring (28*3)	5102010235	1	-	•	•	

7	Connectors, fasteners,	High pressure, low pressure connector, bolt,	\	\	0	0	0
,	connectors	pipe joint, etc	\	,			O
8	fan	Cooling fan	\	\	0	0	0
9	Clean the oil cooler	Oil cooler	\	\	0	0	0
10	Admission line	Inlet pipe	\	\	0	0	•
11	cushioning	Shock absorber	\	4 sets	0	0	•
12	Clean surface of compressor	1	\	\	0	0	0
13	Oil seal	Oil seal	5099000088	1	-	-	•
14	Coupling elastic pad	Coupling elastic pad	5109040002	1	-	-	•

Note:

- ➤ o: Inspection/cleaning; •: replacement; -: no action needed.
- The mileage and time in the above maintenance cycle are subject to first-hand. The corresponding seals shall be checked during of maintenance. If there is any abnormality, contact the professional for repair.
- > Oil seal and Coupling elastic pad they are also consumable parts and please keep detecting when you faced Oil leaked from Motor side or any crack on side of elastic pad in coupling, please replace it accordingly as soon as possible!

	Procedure	Tools	Feature	Pictures
01	Checking connectors, fasteners and joints: (1) check the motor connector, temperature control connector is locked; (2) check whether the fastening bolts are tightened at all parts and whether the anti-loosening line is misplaced; (3) check the air inlet joint, the air outlet joint and other joints are locked, prevent loose line is misplaced.	\	▲No loose	Oil Cooler Connecting plug
02	Checking Fan: Checking whether the fan is damaged, use a screwdriver or other tools to move the fan to see whether it damaged, deformation, whether there is a rub.	\	▲ free rotary	
03	Clean oil cooler: If the oil cooler is blocked, it will cause the air can not circulate, thus it can not release the heat, the result will lead to air compressor high temperature alarm, when it comes to serious result, the air compressor would be burning. Therefore, it is necessary to check and clean the oil cooler regularly to ensure that there is no foreign matter in the cooling hole of the cooler and the ventilation is smooth.	\	▲No jammed	
04	Air filter cleaning: Please use about 0.4Mpa dry, clean compressed air from the inside to the outside, do not use water, gasoline, detergent and other liquid to clean	\	\	6
05	Inspection of air intake pipe: If The air is not clean, will cause the reduction of air filter life, and then affect the life of air compressor, should regularly checking whether there is leakage, damage of the air intake pipe line.	\	▲No demaged	
06	Checking Shock pad: Checking regularly whether shock absorbers are aginged, whether there is damage.	\	▲No Aging/dema ge	Shock Pad
07	Air compressor Surface cleaning: Clean the outside of the machine regularly, reduce the dust of the machine.	\	\	

Item	Internal filter maintaining		Dep.		After-service
	Procedure	Tools	Feature		Pictures
01	Discharge Internal air filter core: ①Discharge Filter cover: To screw 2 two screw M5 × 20, take out air filter cover, O-ring 118 × 2 ought to be taking good care during of working; ②Discharge Air filter core: discharge screw M6, take out filter element。	Socket wrench Open end wrench	\		Remove air filter element cover
02	Internal filter element cleaning: (1) Internal filter core cleaning: use about 0.4Mpa dry, clean compressed air, blowing from the inside out, is strictly prohibited to use water, gasoline, detergent and other liquids cleaning; (2) Internal filter cover cleaning: use about 0.4mpa dry, clean compressed air to clean the dust on the surface and inside of the empty filter cover.	Air Gun	▲No dust		Anti-loose
03	Replacement of Internal filter element: (1) installation of Internal filter element: with the antiloosening nut M6 Internal filter element to the empty filter seat, to ensure that the Internal filter element installed firmly, do not rotate; (2) installation of Internal filter cover: before installation, confirm o-ring 118 ×2 installated in place, with two hexagon socket screw M5 ×20 with elastic washer 5, Internal filter cover assembly fastening to the Internal filter seat, tightening torque 5N•m, draw the anti-loose line.	Open end wrench Torque wrench	▲Torque	0-ring1	Filter cover Filter cover

4.3 Maintenance table

Item	External filter maintenance		Dep.		After-service
	Procedure	Tools	Feature		Pictures
01	Removal of external filter element: (1) break the clamp (1) 2 pos.; (2) remove the upper shell (2); (3) remove the empty filter element.	\	\		1 2 34
02	Cleaning of external air filter element: (1) external external filter core cleaning: use about 0.4Mpa dry, clean compressed air, blowing from the inside out, is strictly prohibited to use water, gasoline, detergent and other liquids to clean; (2) external filter shell cleaning: use about 0.4Mpa dry, clean compressed air to clean the shell surface and internal dust.	Air Gun	▲No dust	Dust	Has one side of "NAILL" logo
03	Replacement of external air filter element: (1) open the clamp, into the external filter element, external filter element has the direction of "NAILI" to the dust outlet; (2) adjust the axis directions of air inlet and dust outlet center as shown in the figure, and cover the clamp; (3) press the black button on the maintenance indicator for 2-3 times to restore; (4) pay attention to the direction of dust hole downward.	\	\	Maintenand	Air filter assembly, air inlet port and dust hole direction

Item	Lubricant Oil		Dep.	After-Service	
	Procedure	Tools	Feature		Pictures
01	Lubricant oil inspection: There will be a small consumption of lubricating oil over a long period of time. Check the oil level regularly, if the oil level In the upper position of the oil indicator (figure), the oil level is indicated Normal, please refer to the document "description of NAILI air compressor oil level".	\	▲Oil Level indicator		Oil indicator
02	Remove USED lubricating oil: (1) ready oil box; (2) remove the screw plug on the oil shell M16×1.5; (3) remove the 2 screw plugs on the cooler M16×1.5; (4) finally determine no USED oil flow.	Open end wrench Socket wrench	▲drain USED oil	Screw M16×1.5	Oil Port screw M20×1.5
03	Replace with new lubricating oil: (1) installation of the oil shell on the screw plug M16× 1.5, replace a new assembly washer 16, tightening torque 45N•m, draw the line; (2) installation of the cooler on the 2 screws M16×1.5, replace a new assembly washer 16, tightening torque 45N•m, draw the line; (3) remove the refueling port screw plug M20×1.5; (4) add lubricating oil to the oil level, see the document "on the endurance air pressure oil level"; (5) installation of oil hole screw plug M20×1.5, replace a new combination washer 20, tightening torque 45N•m, draw the line.	Socket wrench Torque wrench	▲Torque		M16×1.5

Item	Remove Oil separator		Dep.		After-service	
	Procedure	Tools	Feature		Pictures	
01	Remove oil Separator: (1) remove 6 hexagon socket screw M6×20; (2) take off the oil separator and oil seal ring; (3) remove the oil seal ring on the old O ring 28×3, O ring 15.54×2.62.	socket head wrench	\	O-Ring 28×3 Oil sep Install narrow Oil sep Oil sep Oil sep Sep	al ring of separator , stall with crow side	
02	Oil separation element assembly: (1) the new o-ring 28×3 coated with silicone grease, installed in the outer circle of the oil seal ring groove; (2) apply silicon grease to the new o-ring 15.54×2.62 and install it into the groove of the inner hole of the oil seal ring; (3) the oil seal ring into the new oil separator element, narrow edge in.	\	installation direction		O-Ring 55. 25×2. 62 O-ring 15. 54×2. 62 installed in hole of seal of separator Separator assembly	
03	Replace oil separator: (1) the oil separator combination should be pressed on the air duct, spring head down on the end of the oil separator. (2) confirm that o-rings 55.25×2.62 and 94.92×2.62 are in the groove of oil tank; (3) To press the completed Oil tank cover(assembled) onto the oil tank, fasten six hexagon socket screw M6×20, plus spring washer 6, tightening torque 10N•m, draw the anti loose line.	Socket wrench Torque wrench	▲Torque			

	Oil seal and coupling elastic pad			After-service	
	Procedure	Tools	Feature	Pictures	
01	Remove coupling elastic pad: (1) remove 4 hexagon socket screw M8×20, so that the motor and air end disconnect; (2) remove 2 hexagon socket screws M8×16, so that the air end and the base disconnect; (3) remove the air end, remove the old coupling elastic pad.	Socket wrench	\		
02	Remove Oil seal: (1) before removing the oil seal assembly, please confirm that the air end has been oil drained, Parts replaced, all parts had been installed into the whole machine, add lubricating oil to the regulated oil level, refueling see the document "on the NAILI air pressure oil level"; (2) remove 4 hexagon socket screw M8×20, remove the wind shield; (3) remove 6 hexagon socket screw M6, remove the bell housing; (4) take off the cooler, keep the oil connector; (5) remove the inner hexagon cone end set screw M6×16, remove the air end coupling, remove the flat key 6×25; (6) remove 3 cross groove countersunk head screws M5×10, remove the oil seal flange assembly.	Socket wrench cross screwdriver	▲ drain USED oil	Airend connecting the base, Socket screw M8×16 Airend connecting with Motor, Socket screw M8×20	
03	(1) with oil seal installation tooling, the new oil seal flange components installed in place; (2) use 3 cross groove countersunk head screws M5×10, tighten the oil seal flange assembly to the oil storage shell, tighten torque 4N•m, mark the Anti-loosen line. (3) apply silicone grease to the two oil joint components, o-ring, and knock them into the installation hole of the oil storage shell with a rubber hammer; (4) hit the flat key 6×25 into the rotor keyway, into the air end coupling, use the inner hexagon cone end set screw M6×16 to tighten the coupling, glue 243, tightening torque 4N•m, mark the anti-loose line; (5) apply silicone grease to the oil hole of the cooler, keep the cooler assembly parallel to the air end, align the oil joint with the oil hole, and install the cooler. (6) the bell housing phi 105 put alignment installation on the air end, rotating the bell housing alignment screw hole, with M6 hexagon socket screw with 6 hexagon wrench diagonal pre-tightening, with torque wrench diagonal tightening, torque 11N•m,mark the anti-loose line. 7) the wind guide housing put in line with bell housing with 135 socket, rotation guide housing alignment screw hole, use hexagon socket screw M8×20 with 8 hexagon wrench ball pad with diagonal pretightening, torque wrench diagonal tightening, torque 23N•m, guide blow direction toward to the bottom, mark the anti-2	Socket wrench cross screwdriver torque wrench	▲Use the tooling ▲Torque	Oil seal assembly Coupling Socket screw M6×16	

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5. Motor

If the compressor stored for a long time in a humid environment, we need to check the insulation resistance of winding. The resistance should not be lower than 20 m Ω .

The motor and the entire air compressor must be grounded to prevent leakage accidents.

6. Storage

Air compressor should be well protected against damage during transportation or rust during short-term storage (3 months). If long-term storage, please contact our company. If in humid climate, electrical and mechanical components should be stored in a dry environment.

In case the compressor had out of storage time (more than 6months), please replace new lubricant oil!!!

7. Breakdown Maintenance

Malfunctions	Reason	Solution		
Hand to atom	Electrical Accident	Electrical professions repair		
Hard to start	Inside stuck	Contact us		
	Loose connection	Tighten the joint point		
Abnormal agentian maises	Coupling pad damaged	Replace the coupling pad		
Abnormal operation noises	Lubricating oil reduction	Add Lubricating oil		
	Damage of motor bearings	Repair or replace the motor		
The internal pressure rises	Incorrect pressure setting	Adjust opening pressure		
Safety valve opening	Pipeline jam	Check the line		
	Empty filter plugging	Blow wash or replace filter		
	Oil separator plugging	Replace separator		
Low exhaust pressure	Pipeline leak	Check the line		
	The intake valve did not open	Repair or replace it		
	Compressed air supply is not enough	Change air compressor model		
Excessive oil consumption	Oil separator damage	replace		
Excessive on consumption	Lubricating oil specification error	replace		
High temperature breakdown	The oil cooler is blocked	Clean it		

	Temperature control valve core damaged	Replace it	
	High Ambient temperature,	Increase ventilation	
	Obstructed ventilation	Increase ventilation	
	The oil level is too low	Check oil level	
	Oil separator block	Replace oil separator	
Oil spout and equipment shutdown	The inlet valve seal is damaged	replace	
	The inverter does not match the motor or test setting error.	Choose correct model and reset the equipment.	
Abnormal motor damage	Inside stuck	Contact us	
	Electrical breakdown	Contact Electrical professions	

Note:

- > The owner of the air compressor is responsible for the maintenance of the air compressor. All worn, defective and damaged parts must be replaced immediately.
- > Inspection operations and maintenance should be performed by competent trained personnel.
- When discharging the fault, be sure to cut off power first and then release the pressure inside the machine before inspection.
- Please contact us if you are not qualified for troubleshooting analysis.