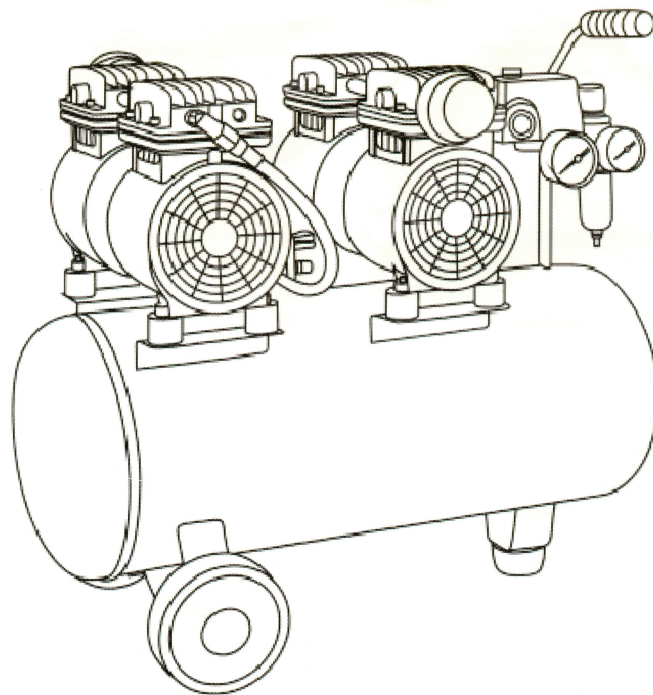




Oilless Air Compressor

Operational Manual

READ THIS MANUAL CAREFULLY BEFORE USING

Contents

I . Introduction of after-sales service.....	1
II . Product profile.....	1
III. Technical parameters of principal machine.....	2
IV. Operating instructions of switching elements	2
V . Operating requirements.....	3
VI. Maintenance	3
VII. Troubleshooting list.....	4
VIII. Diagram of air compressor and parts list.....	5

I. Introduction of after-sales service

1.1 Introduction

Firstly, thank you for purchasing our company's oilless air compressor, we wish it to contribute to your work and life successfully. Our products have been strictly inspected and tested before delivery, however, in order to ensure safe and reliable operation of air compressor and ensure long service life, please always read the operating instructions carefully before use, so as to achieve proper operation and maintenance. If you have anything unclear, please contact with our company or your local dealer, we will provide satisfactory service for you by all means.

1.2 Service content

1.2.1 Quality guarantee

We offer a quality guarantee period of three months since delivery of our product, however, this is only limited to users who observe the operating instructions for installation and operation. Within the quality guarantee period, if our product has defective components or is damaged, our company will replace it free of charge or charged. Our technical department is the only institution that is authorized to confirm whether damage originates from scope of quality guarantee or not. This quality guarantee does not include direct or indirect personal or property loss or damage due to improper operation and repair of the machine, and is only limited to damage of materials and parts (excluding normal wearing of all parts).

1.2.2 Itinerant service

During quality guarantee period, if you need technical service, our company will dispatch technicians to your premises to provide inspection and explanation etc services, so as to nip in the bud.

1.3 Take delivery

1.3.1 When you receive the air compressor, please firstly check whether it is consistent with your ordered model and specification.

1.3.2 Check whether the machine and accessories are damaged during transportation. If there is any shortage or damage, please contact our business personnel, they will offer you satisfactory solution!

II. Product profile

Our company's oil less air compressor (hereinafter referred to as the air compressor) has been used widely in cultivation, food, medicine, body-building, beautification, chemical industry, scientific experiment etc fields since it could provide pure, environmental friendly air supply without oil pollution. Our company's oil less air compressor is elaborately manufactured using state-of-the-art technology, its main advantages are as follows:

- 2.1.1 Compressed air does not contain any oil stain, so does not need defiling treatment, thus will not contaminate the environment.
- 2.1.2 Low energy consumption, compared with oil compressor, a large quantity of lubricating oil may be saved every year.
- 2.1.3 Friction piece has small friction factor, long service life, reduces troubleshooting time and cost.
- 2.1.4 Multiple pressure, overload protection, ensure smooth and reliable operation of the machine.
- 2.1.5 Advanced intake, vent valve structure, rational silencing design, its noise is evidently lower than that of other similar products.
- 2.1.6 The whole machine features considerate design, flexible movement, simple operation and convenient maintenance.

III. Technical parameters of principal machine

Model	Motor		Speed	Air Displacement		Max. Pressure		Tank		Noise	Weight	Dimensions
	W	HP	RPM	L/min	CFM	Bar	psi	L	Gal	dBA	Kg	L×W×H(cm)
LH5001	550	3/4	1440	60	2.1	8	115	15	4.0	65	22	42×41×66
LH5002	2×550	2×3/4	1440	120	4	8	115	50	12.5	70	35	70×31×66
LH5003	3×550	3×3/4	1440	180	6.2	8	115	100	25	70	75	99×38×76
LH5004	4×550	4×3/4	1440	240	8.4	8	115	150	37.5	70	100	123×45×81
LH5005	5×550	5×3/4	1440	300	10.5	8	115	200	50	70	115	132×53×96
LH5001A	850	1.1	1440	160	5.8	8	115	15	4.0	69	25	40×41×70
LH5002A	2×850	2×1.1	1440	320	11.6	8	115	55	14.5	71	47	66×45×78
LH5003A	3×850	3×1.1	1440	480	17.4	8	115	65	17.2	77	71	78×45×78
LH5002B	2×1000	2×1.3	1400	320	11.6	8	115	55	14.5	71	47	66×45×78
LH5003B	3×1000	3×1.3	1400	480	17.4	8	115	65	17.2	77	71	78×45×78

IV. Operating instructions of switching elements

4.1) Turn switch button to On or Auto position, turn on power supply, the machine starts. If the machine cannot start, please reduce air pressure in air receiver to below 0.4Mpa, then start.

4.2) Turn switch button to OFF position, cut off power supply, the machine will stop running.

4.3) Switch is provided with safety valve, when pressure in air receiver exceeds 0.9Mpa, safety valve will sound and discharge air to relieve pressure, when safety valve sounds, please repair air pressure switch, keep operating pressure of air pressure switch up to rated operating pressure.

4.4) Every day after stop, please use your finger to prop the thimble under oil-water separator slightly, drain away sewage in oil-water separator. (For some users, oil-water separator is not necessary, so this item is not in use, and the function in Article 5 below is not applicable)

4.5) Pressure of air discharged from vent valve may be adjusted by pressure regulating knob on oil-water separator. Turn the knob clockwise, increase exhaust air pressure up to the pressure in air receiver, turn reversely to reduce discharge pressure, as a minimum, air supply may be cut off. Note! When it is turned to limiting position, do not turn with force, so as to avoid damage.

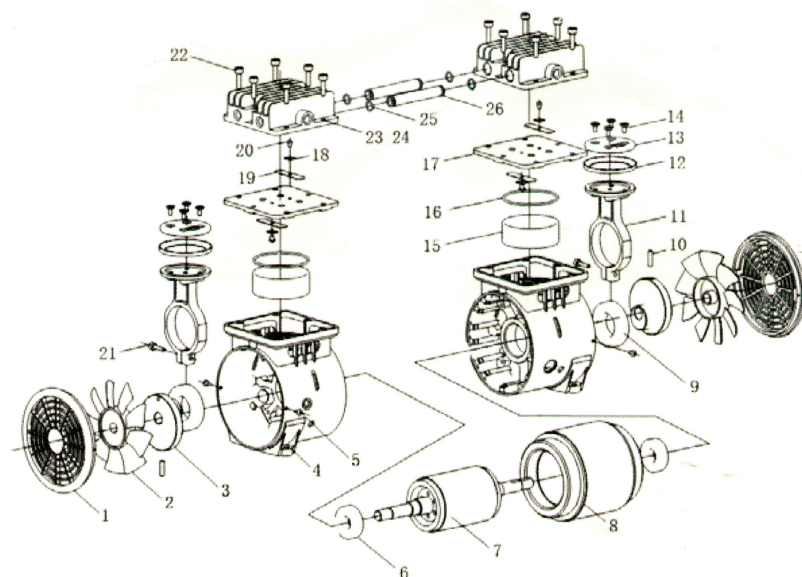
4.6) To adjust working pressure of air pressure switch, please remove upper casing of air pressure switch, adjust turning screw in pressure switch, increase operating pressure by clockwise turning, and anticlockwise in reverse. Pay attention to cut off power supply before operation.

VII. Troubleshooting list

Warning: before any maintenance or repair, always cut off power supply and drain away air pressure in the air receiver, otherwise injury tends to occur!

Symptom	Possible cause	Remedies
Motor cannot run and there is no sound	1 Power is not connected 2 Pressure switch is disconnected 3 Fuse wire is blown out 4 Overload protector is in protection state 5 Pressure switch is damaged 6 Motor stator winding is burnt	1 Check plug and switch 2 Reset the switch and find out the cause 3 Replace fuse wire 4 After cooling down, the motor will restart 5 Contact with reliable service center 6 replace stator
Motor gives out current sound but cannot run or runs very slowly	1 Voltage is too low 2 Motor coil is shorted or open 3 Check valve or air pressure switch is damaged	1 Check voltage, it should be no lower than 10% of rated voltage 2 Contact with reliable service center 3 Contact with reliable service center
Overload protector cut off power supply repetitively	1 Voltage is too low 2 Ventilation is poor, temperature is too high	1 Check voltage, it should be no lower than 10% of rated voltage 2 Put the air compressor in a well ventilated place
Pressure of shutoff air compressor decreases	1 Connection of air passage becomes loose, there is leakage 2 drain valve is open 3 check valve leakage	1 Check and eliminate 2 Tighten drain valve 3 Remove and clean, then assemble, or otherwise replace
Exhaust air contains a lot of moisture	1 Air receiver contains a lot of water 2 Humidity is too high	1 Drain away water in air receiver 2 Move air compressor to a cooler place, or use oil-water separator
Air compressor runs ceaselessly	1 Air pressure switch is damaged 2 There is leakage	1 Replace air pressure switch 2 Check and eliminate
Air compressor vibrates	1 Fastener becomes loose 2 Bearing foot pad is damaged or lost	1 Check and eliminate 2 Replace foot pad
Pressure cannot be increased or cannot reach specified pressure	1 Drain valve is open 2 Air filter is blocked 3 There is air leakage 4 Valve plate fails or there is foreign body or air leakage 5 Piston ring is worn too much	1 Tighten drain valve 2 Clean or replace filter element 3 Check and eliminate 4 Clean or replace 5 Replace with new one

VIII. Diagram of air compressor and parts list



- | | | |
|--------------------|-----------------------------|-------------------------|
| 1. Shield | 10. Set screw M6×10 | 19. Valve sheet |
| 2. Fan | 11. Connecting rod | 20. screw M4×5 |
| 3. Crank | 12. Piston ring | 21. screw M6×12 |
| 4. Crankcase | 13. Clamp plate | 22. screw M6×25 |
| 5. Plus screw M4 | 14. Plus screw M4×8 | 23. Cylinder cap |
| 6. bearing(6203) | 15. Cylinder | 24. Cylinder cap gasket |
| 7. Rotor | 16. Cylinder gasket | 25. Oring |
| 8. Stator | 17. Valve plate | 26. Connecting pipe |
| 9. bearing(NU1006) | 18. Valve sheet clamp plate | |

