

ONE STOP SHOWROOM FOR HOSPITAL & HEALTHCARE PRODUCTS.



OIL FREE AIR COMPRESSOR

INSTRUCTION

USER MANUAL



WESTERN SURGICAL

Western Surgical

AN ISO 9001 : 2008 & ISO 13485 : 2015 AC 2012 CERTIFIED COMPANY

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OILFREE AIR COMPRESSOR

1. With the features of low noise, energy-saving, environmental protection and used securely, this machine is widely used in the fields of medical, sanitation, foodstuff, scientific testing and so forth.

2. Pressure Switch usage:

- 1). Turn pressure switch with "on" or "auto" state, turn on the power then machine could start. If not, please reduce the air tank pressure to below the 0.4Mpa.
- 2). Turn pressure switch with "off", cut off the electricity, it will stop to work normally.
- 3). With a safety valve in the pressure switch. When the air tank pressure exceeds 0.9Mpa, the safety valve will be warned with hums and discharge pressure automatically. When arisen this condition, please check and repair the pressure switch, make sure its working pressure without exceeding the rated one.
- 4). Once daily off-working, please pull the thimble of separator by finger, ensured to exhaust all the water from it completely. (May be some customer have brought the air compressor without oil-separator, so it's unnecessary for them to comply with above mentioned requirements.)
- 5). The discharged air pressure could be adjusted by the knob on the oil-separator, with clockwise rotation, it will be increased discharged pressure, with the max. one is up to air tank pressure, and vice versa.
- 6). If necessary, please adjust the working pressure of the pressure switch, firstly remove the pressure switch shell, adjust the bolt M6 or other proper tools, for example the wrench. With the clockwise to increase the working pressure, and vice versa.

* Carrying Warranty at Rajkot Office only on site warranty not provided free of cost.

* Due to constant upgradation design, price and features are subject to change any time without prior notice.



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WARNINGS: In order to guarantee to operate securely, please cut off the power before above mentioned procedures.

3. Usage Requirments:

- 1). The storage & transportation enviroment must be controlled between -40°C and 50°C , the relative humidity $\leq 95\%$.
- 2). The working enviroment must keep dry, clean and well-ventilated, the environment temperature between -5°C and 40°C , the relative humidity $\leq 80\%$.
- 3). Please keep the machine out of the wed, inflammable, dusty conditions.
- 4). Please keep the machine on the flat ground without any inclinations.
- 5). The voltage shouldn't lower or exceed the 10% of the rated one.
- 6). In order to avoid any injures, it's prohibited to touch any high temperature parts once in the course of working, such as the cylinder head, exhaust pipe, one-way valve and so forth.
- 7). Please keep the cross section of electrical cable $\geq 1.5\text{mm}^2$, and with the proper length.
- 8). The usage is limited to supply any air sources for air tools, mustn't point the discharged air to anybody or other animals directly.
- 9). Please guarantee the machine in "OFF" state before turn on the power.
- 10). Prohibited any collide under any state. In order to avoid any movements against any outsidess pressure, you should take effective practices promptly.

4. Maintenance:

Special Attention: In order to avoid any injury, all the maintenances should be operated under out off power conditions and make sure no any pressure in the tank.

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- 1). To keep the air compressor clean always .
 - 2). Be twice per week at least for you to clean away all liquid in tank. Once operating , should make sure air tank pressure below 0.1Mpa.
 - 3). To keep the safety valve precise at any conditions, when the air tank pressure reach to between 0.5 and 0.7Mpa, please pull the safety valve lightly, it could discharge freely, if presh the shaft , it will be reset.
 - 4). To clean the air valve per every 500 hours usage, and replace the muffler element. Replace the piston ring per every 1500 hours.
 - 5). To release all air tank pressure tank, then move it freely.
5. Troubleshooting Chart:



Dangerous by electric



Starting automatically without any warning



Read the manual



Mustn't open the valve before fixing air flexible pipe



Dangerous of high temperature



Cut off electricity



Turn on electricity

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TROUBLESHOOTING CHART

PROB' EM	POSSIBLE CAUSE(S)	CORRECTIVE ACTION
Compressor will not run	<ol style="list-style-type: none"> 1.No electrical power. 2.Blown fuse. 3.Breaker open. 4.Thermal overload open. 5.Pressure switch bad. 	<ol style="list-style-type: none"> 1.Plugged in? Check fuse/breaker. 2.Replace blown fuse. 3.Reset determining why problem happened. 4.Motor will restart when cool (approx. 15minutes) 5.Contact Authorized Service Center.
Motor hums but cannot run or runs slowly	<ol style="list-style-type: none"> 1.Low voltage. 2.Shorted or open motor winding. 3.Defective check valve or pressure switch. 4.Cmpressed air in cylinder. 	<ol style="list-style-type: none"> 1.Check with voltmeter(105v.min.) 2.Contact Authorized Service Center. 3.Contact Authorized Service Center. 4.Turn the AUTO ? OFF switch to the OFF position for 15 sec., then turn to the AUTO position.
Fuses blow/circuit breaker trips repeatedly CAUTION!! NEVER USE AN EXTENSION CORD WITH THIS PRODUCT!	<ol style="list-style-type: none"> 1.Incorrect size fuse,circuit overloaded. 2.Defective check valve or pressure switch. 	<ol style="list-style-type: none"> 1.Check for proper fuse.Use time-delay fuse. Disconnect from other electrical appliances from circuit or operate compressor on its own branch circuit. 2.Contact Authorized Service Center.
Thermai overload protector cuts out repeatedly.	<ol style="list-style-type: none"> 1.Low voltage. 2.Clogged air filter. 3.Lack of proper ventilation/room temperature too high. 	<ol style="list-style-type: none"> 1.Check with voltmeter(105 v.min.) 2.Clean filter(see Maintenance section). 3.Move compressor to well ventilated area.
Tank pressure drops when compressor shuts off.	<ol style="list-style-type: none"> 1.Loose connections(fittings, tubing,etc.) 2.Open draincock. 3.Check valve leaking. 	<ol style="list-style-type: none"> 1.Check for air leaks.Use sealing tape on all leaking connections. 2.Tighten draincock. 3.Disassemble check valve assembly. Clean or replace. <p style="text-align: center;">DANGER!! DO NOT DISASSEMBLE CHECK VALVE WITH AIR IN TANK. BLEED TANK FIRST.</p>
Excessive moisture in discharge air	<ol style="list-style-type: none"> 1.Excessive water in tank. 2.High humidity. 3.Clogged intake filter. 	<ol style="list-style-type: none"> 1.Drain receiver. 2.Move compressor to area of less humidity; use air line filter. 3.Clean or replace filter.
Compressor runs continually.	<ol style="list-style-type: none"> 1.Defective pressure switch. 2.Excessive air usage. 	<ol style="list-style-type: none"> 1.Replace switch. 2.Compressor not large enough to meet CFM requirement or the air tool.
Compressor vibrates.	<ol style="list-style-type: none"> 1.Loose mounting bolts. 2.Rubber tank feet worn/missing. 	<ol style="list-style-type: none"> 1.Tighten. 2.Replace.
Air output lower than normal.	<ol style="list-style-type: none"> 1.Open draincock. 2.intake filter dirty. 3.Connection leaking. 	<ol style="list-style-type: none"> 1.Tighten draincock. 2.Clean or replace intake filter. 3.Tighten connections.

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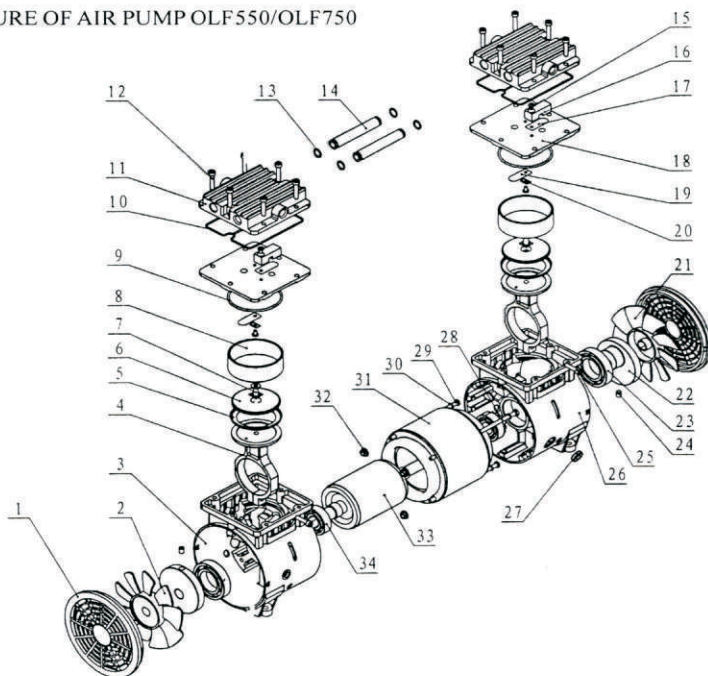
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STRUCTURE OF AIR PUMP OLF550/OLF750



PARTS LIST OF AIR PUMP OLF550/OLF750

NO	DESCRIPTION	Q.TY	NO	DESCRIPTION	Q.TY
1	SIDE COVER	2	18	VALVE PLATE	2
2	LEFT FAN	1	19	INTAKE VALVE	2
3	LEFT CRANKCASE	1	20	METAL CUSHION	2
4	CONNECT ROD	2	21	RIGHT FAN	1
5	PISTON RING	2	22	CRANK	2
6	FASTEN PLATE	2	23	BEARING 6006-2Z	2
7	SCREW M6*16	2	24	SCREW M6*8	4
8	CYLINDER	2	25	SCREW M5*20	2
9	CYLINDER SEAL RING	2	26	RIGHT CRANKCASE	1
10	CYLINDER COVER SEAL RING	2	27	WIRE FASTEN RING	1
11	CYLINDER COVER	2	28	BOLT M5*152	2
12	SCREW M5*25	12	29	SCREW M5*120	2
13	"O" SEAL RING	4	30	SPRING CUSHION Φ 5	4
14	CONNECT PIPE	2	31	STATOR	1
15	SCREW M4*6	4	32	BOLT	2
16	FASTEN PART	2	33	ROTOR	1
17	EXHAUST VALVE	2	34	BEARING 6203-2Z	2

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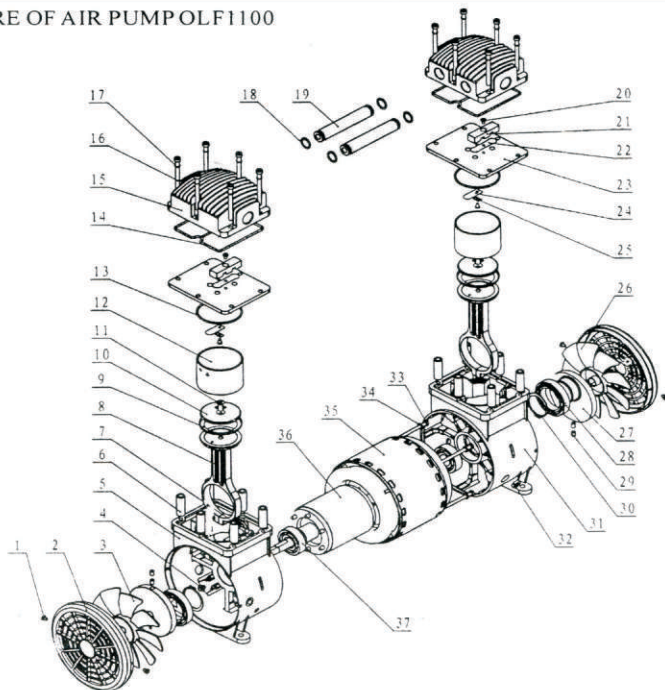
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STRUCTURE OF AIR PUMP OLF1100



PARTS LIST OF AIR PUMP OLF1100

NO	DESCRIPTION	Q.TY	NO	DESCRIPTION	Q.TY
1	SCREW ST4.2	4	20	SCREW M4*6	4
2	SIDE COVER	2	21	FASTEN PART	2
3	LEFT FAN	1	22	EXHAUST VALVE	2
4	SCREW M5	4	23	VALVE PLATE	2
5	LEFT CRANKCASE	1	24	INTAKE VALVE	2
6	ADJUSTABLE HOLDER	12	25	METAL CUSHION	2
7	SCREW M5*20	2	26	FAN	1
8	CONNECT ROD	2	27	CRANK	2
9	PISTON RING	2	28	BEARING 6908-2Z	2
10	FASTEN PLATE	2	29	SCREW M6*8	4
11	SCREW M6*16	2	30	BEARING RING Φ 40	2
12	CYLINDER	2	31	RIGHT CRANKCASE	1
13	CYLINDER SEAL RING	2	32	WIRE FASTEN RING	1
14	CYLINDER COVER SEAL RING	2	33	SCREW M5*182	4
15	CYLINDER COVER	2	34	SPRING CUSHION Φ 5	4
16	SCREW M6*65	12	35	STATOR	1
17	SPRING CUSHION Φ 6	12	36	ROTOR	1
18	"O" SEAL RING	4	37	BEARING 6204-2Z	2
19	CONNECT PIPE	2			

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OUR OTHER PRODUCTS RANGE



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