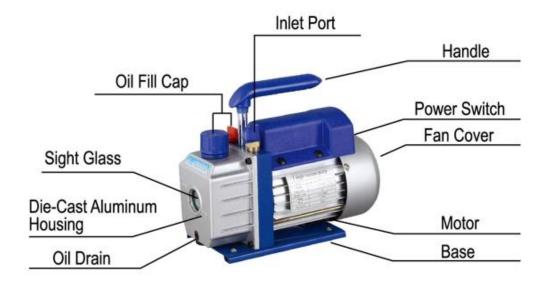
VACUUM PUMP

Please read the operating manual carefully before us-ing and reserve it properly





PARTS ILLUSTRATION



PUMP SPECIFICATIONS

Model		RS-0.5		RS-1		RS-1.5		RS-2		RS-3		RS-4		RS-6	
Voltage		110V	220V	110V	220V	110V	220V	110V	220V	110V	220V	110V	220V	110V	220V
		60HZ	50HZ	60HZ	50HZ	60HZ	50HZ	60HZ	50HZ	60HZ	50HZ	60HZ	50HZ	60HZ	50HZ
Free Air Displacement	CFM	1.8	1.5	3	2.5	4	3.5	5	4.5	7.0	6.0	9.0	8.0	12	10
Ultimate PA		5		5		5		5		5		5		5	
Vacuum	Mbar	0.05		0.05		0.05		0.05		0.05		0.05		0.05	
Rotatin Speed		1720	1440	1720	1440	1720	1440	1720	1440	1720	1440	1720	1440	1720	1440
Power (HP)		1/4		1/4		1/3		1/3		1/2		3/4		1	
Oil Capacity (ml)		170		220		225		250		250		300		450	
Dimension (mm)		240x110x220 240x110x220		10x220	270x110x220		290x120x230		290x120x240		360x120x250		430x135x260		
Weight (Kg)		5	.5	6		6.5		7.5		9		11		18	

Mode	2RS-0.5		2RS-1		2RS	S-1.5	2RS-2		
Voltage		110V	220V	110V	220V	110V	220V	110V	220V
		60HZ	50HZ	60HZ	50HZ	60HZ	50HZ	60HZ	50HZ
Free Air Displacement	CFM	2	1.5	3	2.5	4	3.5	5	4.5
Ultimate Vacuum PA		3×10 ⁻¹ Pa		3×10 ⁻¹ Pa		3×10) ⁻¹ Pa	3×10 ⁻¹ Pa	
Rotating Speed		3500	2800	3500	2800	3500	2800	3500	2800
Power (HP)		1/4		1/3		1/3		1/2	
Oil Capacity (ml)		250		250		330		330	
Dimension (mm)		280x110x215		280x110x215		290x120x220		290x120x220	
Weight (Kg)		7		7.5		8		9	
Model		2RS-3		2RS-4		2RS-5		1	
Voltage		110V 60HZ	220V 50HZ	110V 60HZ	220V 50HZ	110V 60HZ	220V 50HZ		
Free Air Displacement	CFM	7	6	12	10	14	12		
Ultimate Vacuum PA		3×10 ⁻¹ Pa		3×10 ⁻¹ Pa		3×10 ⁻¹ Pa			
Rotating Speed		1720	1440	1720	1440	1720	1440		
Power (HP)		3/4		1		1			
Oil Capacity (ml)		370		500		550			
Dimension (mm)		360x120x250		430x135x260		430x1	42x280		
Weight (Kg)		11		17		1	8		

USER'S MANUAL

- Examine the oil level before operation, make sure the oil level is not lower than the oil level line. Ensure to fill oil with the right level and oil specification before starting to power on (use high-speed vacuum oil specification "HFV 32")
- Take off the gas filling cap and connect the pump container. The pipe should be short and sealed to avoid any leak.
- Take off the exhaust cap, plug in and switch on for readiness of operation and uses. Operation will produce oil smoke belongs to the normal phenomenon.
- After using the machine, unplug it, remove the connecting pipes, and cover the exhaust cap and oil plug.

CAUTIONS

- Do not pump inflammable, explosive and poisonous gases.
- Do not pump gases which can corrode metals and can exert chemical changes with the pump oil
- Do not pump gases containing pellet dust and gases with plenty of steam.
- The temperature of the pumped gas should not be over 80°C and the environment temperature should not be lower than 5°C - 6°C.
- Do not use it as a compression or a convey pump.
- Do not use or operate without oil.
- Do not pull on the wire when unplugging from the outlet.
- Do not put heavy weights on the wire to avoid being extruded.
- Do not use when the plug or outlet if it is damaged.
- Do not plug or unplug with your wet hands.
- Unplug or switch off the machine when there is any kind of leak of coal gas.

INSTALLATION

- When using the pump it should be in horizontal and put it in dry and clean ventilation. The distance to the periphery should be over 2cm and the space distance between the fronts and back should be at least 5cm. When installing it onto the equipment make sure that sufficient amount of air can enter at the side of the vane shell.
- The gas entering mouth can be connected according to the screw thread of it and can be also plugged with a leather pipe.
- Installation onto a complete set:
 - a. Remove the rubber base from the bottom base and connect with ST4.2 screw nail. If you have no special equipment for installation, you're welcome to be assisted with our company for this task.
- If the pump gases are harmful to ones health or have a bad effect on the environment, you can extend pipes so you can extend the exhaust mouth going outside, however, ensure to practice logical method that will protect the environment.
- If especially needed, an electromagnetic valve can be installed at the gas entering mouth.

TROUBLESHOOTING GUIDE

FORM OF BREAKDOWN	CAUSES	REMOVING WAYS				
	1. Lack of oil	Fill the oil at the above level line				
	The pumping oil is emulsified or dirty	Change the oil				
OF VACUUM	The oil-entering mouth is blocked up or short in oil	Clean the oil-entering mouth, wash the filter net				
	The connection of drain pipes	Check the connection of the pipes				
	5. The pump is not suitable	Pump container recalculates suitable one				
	1. The oil-setter is damaged	Change it				
OIL DRAIN	The tank is loose or worn out	Screw it and the O shaped ring				
OII OPPAY	1. Too much oil	Put the oil at the level line only				
OIL SPRAY	The pressure of the gas- entering mouth is too high or it has pumped much	Choose a bigger pump				
	The oil temperature is too low	Starts the machinery several times or heat the oil				
DIFFICULT IN STARTING	There is some breakdown in the electrical machinery	Check and fix it				
	Some foreign matter is in the pump	Check to remove				



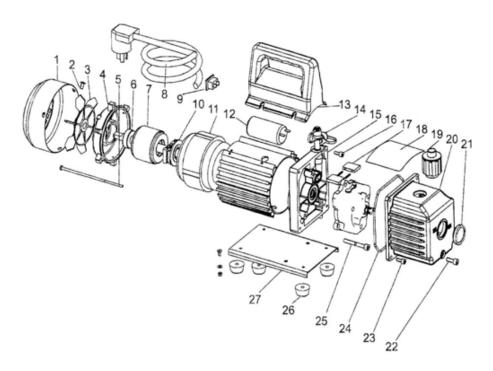
MAINTENANCE

- Keep the pump clean and prevent foreign matter from entering it.
- Keep the oil level. Do not keep it running without oil.
- Keep the oil clean. If it becomes dirty, muddy or has water or other volatile substances which affect limit vacuum the oil should be replaced. Before replacing the oil, start the pump and have it run about 30 minutes to make the oil thin and then stop it and let out the oil from the oil-outing mouth. Then have it run for 1-2 minutes with the gas-entering mouth open. During this time, add a small quantity of clean oil from the gas-entering mouth so as to replace the remaining oil in the pump. Do it repeatedly. After making sure the pump is clean put on the oil-outing screw plug and then fill clean pump oil to the oil-level line from the oiling mouth.
- If it is not in use for long, cover the oiling cap and exhaust cap and put it in a dry place. Meanwhile, damp proof and anti-rust should be considered.
- If it needs removing and fixing, have an experienced or professional technician to do it.

WARRANTY

- Within 7 days from the date of purchased and found out having manufacturing defects, you may return to us for replacement and bring along with the Sales Invoice and Receipt. But reassure No Physical damage before replacing the item.
- If after the 7 days from the date purchased and the item had a defect, you may call the local dealer for service.
- Vacuum pump has a 1 year warranty for the Parts and motor, except physical damage.

EXPLODED VIEW AND PARTS LIST



Fan Cover
Cross screw
Fan
Motor cover
Cross screw
Bearing
Motor rotor
Power supply cords
Power switch
Centrifugal switch
Motor stator
Capacitor
Handle
Inlet fitting
Trestle
Screw

17	Rotary-vane
18	Cap board
19	Exhaust fitting
20	Die cast aluminum housing
21	Sight glass
22	Oil drain cap
23	Screw
24	Seal
25	Screen
26	Rubber foot
27	Base



Instructions for vacuum pump and vacuum chamber

1. Prepare 1 vacuum pump, 1 vacuum drum and vacuum pump oil.



2. After filling the vacuum pump, connect the hose to the air inlet nozzle of the vacuum pump.



3. The interface at the other end of the hose is connected with the vacuum gauge, and the valve switch is shown in the figure.



4. After the connection, start the power normally, and you can see that the pointer pressure of the vacuum gauge will rotate.



A Noted :

- 1. When the vacuum gauge of the vacuum barrel is connected with the acrylic plate, rubber rings must be installed on the upper and lower sides, otherwise there will be air leakage.
- 2. The red rubber ring on the outer ring of the barrel cover is sometimes uneven. It is not sealed well when it is directly covered on the barrel. The vacuum gauge shows no pressure response. Treatment: when the vacuum pump is working, press the barrel cover with both hands and press it down for about 5 seconds, and then release it after the pointer of the vacuum gauge rotates. The rotation of the pointer of the vacuum gauge indicates that the vacuum barrel and vacuum pump have been in normal operation.