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Vacuum Pump

As a specialized enterprise in making vacuum pumps. We are always devoting ourselves to satisfying users' need of high-qualified products. We adopt the latest design and technique, to make sure that our products not only cost less energy, produce less noise and last well, but also are the best design for environment protecting and less pumped gas pollution. Excellent design and making will bring you more convenience.

I.Usable Range

The single stage series of the single-stroke oil-rotating-vane vacuum pumps and the two stage series of the double-stroke oil-rotating-vane vacuum pumps are the equipments for obtaining vacuum by pumping the gases from sealed containers, especally suitable for the pumping work for cold-producing maintenance (for the vacuum pumping with R12,R22, or R134a as cold-producing medium), medical appliances printing machinery, vacuum packing, gas-analysis and hot-forming plastics. And they can also be used as the fore-stroke pumps of all kinds of high-vacuum equipments.

II. Features

Preventing oil--returning design

The passage for gas entering is specially designed, which can prevent the oil flowing back and so prevent the pumped container and tubes from being polluted.

Environment-protecting design

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The tank is separated, and there are separating devices at the exhaust port, It can avoid oil-spraying and reduce pollution.

Alloy aluminium casing

Alloy aluminium casing is used in this kind of electrical machinery, it has high heat-scattering efficiency, which can keep the pump running normally, long-lasting. And it has better outer-figure quality.

Overall design

The electric machinery and the pump are wholly designed and direct drive, which makes the product more compact, lighter and more rational

Great starting moment

The design of great starting moment is easy for starting and high in efficiency, which can keep it running normally even in lower temperature environment and lower volt.

Forced-feed lubrication system (dual-stage vacuum pump)

The porducts incorporate the lubrication system designed to provide clean, filtered oil to all internal bearings and wear surface, regardless of the pump operating pressure. Cleaner oil means reduced maintenance and lower operating costs.

Low noise and vibration

An elastomeric coupling insert between the motor and module results in extremely quiet, smooth-running operation

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III.IIIustration for each part



IV.Main technique parameters

Screw thread of the oil-filling mouth	Diameter of the Oil-filling (mm)	Weight(kg)	Ourter-figure Size(mm)	Oiling-Costing(ml)	Owe	Down	Ratating Speed(r/min)	Limited Pressure(Pa)	Pumping Rate (cfm)	Power Supply	Model	Type	
outh	nm)	kg)	ze(mm)	ıg(ml)	픇	\$	(r/min)	ıre(Pa)	Rate	oply	**		
1/4SAE or 1/4SAE X1/2ACME	98	6.7	247X110X207	160	8 -1	90	1440 1720	10	_	220V 50Hz	TW-0.5A		
			7	7	0X207	0		0				110V 60Hz).5A
1/4SAE or 1/4SAE X1/2ACME 1/4SAE X1/2ACME	96	6.9	273X110X207	220	6 1	120	1440 1720	10	2	220V 50Hz	TW-1A		
			0X207				1720	0	١٠	110V 60Hz	-1A		
1/4SAE or 1/4SAE X1/2ACME	9.00	7.9	273X1	220	4-4	=	1440	10	3	220V 50Hz	TW-1.5A		
			273X110X207	20		180	1440 1720 1440	0		110V 60Hz	1.5A		
1/4SAE or 1/4SAE X1/2ACME	Ø9	=======================================	319X125X243	300	ω <u> </u> -	250		10	4	220V 50Hz	TW-2A		
				_			5X243	0	۵٫۵	0	1720		
1/4SAE or 1/4SAE X1	60	<u></u>	352X142X250	300		370		10	8	220V 50Hz	TW-4A	Vacuum pump	
1/2ACME	9	Οī.	2X250	00	2 -	70	1440 1720			110V 60Hz			
1/4SAE or 1/4SAE X1	96	9.1	282X121.5X238	250	4 -1	180	1440	5X10 ⁻¹		220V 50Hz	2TW-0.5C	dmn	
1/2ACME	6		1.5X238	0		30	1720			110V 60Hz	.0.5C		
1/4SAE or	Ø6	/13 Ø6	337.5X1	300	داد	250	1440	5X10 ⁻¹	N	220V 50Hz	2TW-1C		
			3 3	337.5X123X255	°	Ĺ	°	1720	<u>.7</u>		110V 60Hz	-1c	
1/4SAE or 1/4SAE X1/2ACME	9	19	387X142X265 19.8	450 387X142X	214	370	1440	6.7X10 ⁻²	4	220V 50Hz	2TW-2C		
	9	.∞	2X265	00	101=	0	1720	10-2		110V 60Hz	1-2C		
1/4SAE or 1/4SAE X1/2ACME	Ø9	Ŋ	400X1	4	دا4	550	1440			220V 50Hz	2TW		
	9	21.8	400X142X265	450	ω	50	1720	6.7X10 ⁻²	. 00	110V 60Hz	2TW-4C		

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'.User"s Manua

- Examine the oil-level before using to make sure the oil-level is not lower than the oil-level line. If lower than that it should be oiled without delay (This pump uses hign-speed vacuum oil of HFV 32) Take down the gas-filling cap and connect the pumped container. And the pipe should be short, sealed and there should be any drip. Take down the exhaust cap, plug the power supply plug and s-
- witch on. And you can operate now.
 Pull out the plug after using, remove the connecting pipes and cover the exhaust cap and the oil plug.

- Don't pump inflammable, explosive and poisonous gases
- mical changes with the pump oil . Don't pump gases which can corrode metals and can exert che-
- Don't pump gases containing pellet dust and gases with plenty of
- The temperature of the pumped gas shouldn't be over 80°C, and the environment temperature should be - 5°C~60°C
- Don't use it as a compression pump or a conveyer pump
- It can't run without oil.
- The voltage is 192~248V, 50HZ; the socket should be in ground connection.
- Hold the plug when pulling it out .Don't pull the wire off the outlet
- Don't put heavy weights on the wire to avoid being extruded
- Don't use damaged plug or outlet.
- Don't plug or pull out the plug with your wet hand .
- is any kind of leak of coal gas Don't plug or pull out the plug or tap on the switch where there

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VII. Installation

When in use, the pump should be horizontally put where it is dry ventilating and clean. The distance to the periphery should be over 2 cm and the space distance between the front and back should

be at least 5 cm. When installing it onto the equipment, make sure of the normal air entering at the side of the vane shell. The gas-entering mouth can be connected according to the screw thread of it, and it can also be plugged with a leather pipe.

Installation onto a complete set:remove the rubber base from the bottom base. Connect with ST4.2 screw nail. If you have special equipment of installation, welcome to contact with our company.

If the pumped gases are harmful to one's health or have bad effect on the environment, you can extend pipes from the exhaust mouth to the outside or deal with it in a way of environmental pr-

If specially needed an electromagnetic valve can be installed at the gas-entering mouth

VIII.Breakdown Fixing

	Difficulty in starting		Oil spray		Oil drain		Low degree of vaccum				Forms of breakdown	
3.Some foreign matter is in the pump	2. There is some breakdown in the electrical machinery	1.The oil temperature is too low	2.The pressure of the gas-entering mouth is too high or it has pumped much	1.Too much oil	2.The tank is loose or worn out	1.The oil-seater is damaged	5.The pump is not suitable	4.The connecting pipes drain	3.The oil- entering mouth is blocked up or it is short of oil	2.The pumping oil is emulsificated or not clean	1, Lack of oil	Causes of breakdown
Check to remove it	Check and fix it	Start the machinery several times or heat the oil	Choose a biggerpump	Oil to the oil-level line	Screw it and change the o-shaped ring	Change it	Pumped container, recalculates suitable one	Check the connecting piles	Clear the oil-entering mouth ;wash the filter net	Change the oil	Oil to above the oil-level line	Removing ways

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IX.Maintenance

- Keep the pump clean and prevent foreign matter from entering it. Keep the oil level Don't keep it running without oil.
- maining 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. lean oil from the gas-entering mouth so as to replace the reas-entering mouth open .During this time, add a small quantity of c minutes to make the oil thin, and then stop it and let out the oil replaced. Before replacing the oil, start the pump and have it run about 30 volatile substances, which affect limit vacuum, the oil should be Keep the oil clean.If it becomes dirty, muddy, or has water or other from the oil-outing mouth. Then, have it run 1-2 minutes with the g-
- If it is not in use for long, cover the oiling cap and exhaust cap should be considered and put it in a dry place, Meanwhile, dampproof and antirust
- If it needs removing and fixing, be sure to have an experienced

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