wipcool®
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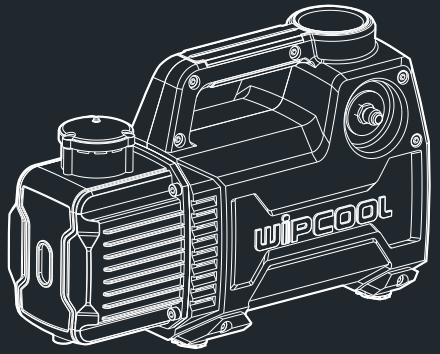
Website:www.wipcool.com

NEW REFRIGERANT VACUUM PUMP

— OPERATION MANUAL—



Vacuuming Quickly

CE

1. Notice for Use

■ Thank you for buying WIPCOOL Fast series vacuum pump, we are dedicated to providing you with high quality products.

■ Please check if your ordered goods in good shipment condition, with the correct accessories, any damage during transportation, please contact us or the local distributors in time if you find any problems.

■ If there is any change in the product (including the specification), we won't inform any more.

⚠ WARNING

To ensure the long-term stability of the product, please read this manual carefully before you install, transport, repair or maintain in order to fully understand the safety issues, the technical parameters and operation methods of the pump, etc.

2. Caution

⚠ WARNING

2.1 To ensure safety of the pump, please select manufacturer's original accessories and charger. (For cordless vacuum pump)
2.2 Do not extract gases that are corrosive or chemically react with pump oil.
2.3 Don't disassemble, open or chop the battery. Keep away from heat sources and flames and avoid storage under direct sunlight.(For cordless vacuum pump)
2.4 Don't use the battery seat to withstand mechanical impact. And don't continue to use it if battery is damaged or leaked.(For cordless vacuum pump)
2.5 Keep battery packs clean and dry.(For cordless vacuum pump)
2.6 The temperature of the inhaled gas shall not be higher than 80 ℃, and the allowable ambient temperature shall be 0 ℃ ~ 50 ℃.
2.7 Don't operate the pump without oil or short of oil.
2.8 Do not use in the rain, water enters into the machine will easily trigger electric shock.

⚠ WARNING

Charging Process （Apply for cordless vacuum pump only）
1. Remove the battery from the vacuum pump and insert it into the charger.
2. Make sure the power supply is correct voltage. Plug the charger into the socket.
3. The light is red indicate it's in charging, light turn off indicate it's fully charged.
It is normal the battery pack is slightly hot during charging.
If the vacuum pump is not used for a long time, disconnect the battery charger from the pump.
Before using the vacuum pump, please fully charge the lithium battery so as not to affect your work.
Please charge the battery at the ambient temperature 50℉ - 110℉ (10℃ - 45℃).
After using for a long time, please cool down the battery and recharge.

⚠ WARNING

When the battery is discharged and fully placed in the protection state, turn off the power switch immediately. Don't turn on the machine frequently, it will cause damage to the battery and shorten battery life.

3. Product Introduction

3.1 Product Overview

Wipcool Fast series single stage and dual-stage rotary vane vacuum pumps are the basic tools for generating vacuum in sealed containers. they are suitable for refrigeration equipment using new and old refrigerants, printing equipment, medical instruments, vacuum packaging, gas analysis, thermoplastic molding and other industrial products. It can also be equipped on various high vacuum equipment

3.2 Technical Data

3.2.1 Single stage new refrigerant vacuum pump

Model	F1	F1.5
Voltage	230V~/50-60Hz or 115V~/60Hz	
Ultimate Vacuum	150 microns	
Flow Rate (Max.)	1.5CFM	3CFM
	42L/min	85L/min
Oil Capacity	370ml	330ml
Weight	4.2Kg	4.5Kg
Dimensions	309x113x198	
Input Port	1/4"SAE	

Model	F2R	F3R	F4R	F5R
Voltage	230V~/50-60Hz or 115V~/60Hz			
Ultimate Vacuum	150 microns			
Flow Rate (Max.)	5CFM	7CFM	9CFM	11CFM
	142L/min	198L/min	255L/min	312L/min
Oil Capacity	580ml	560ml	690ml	670ml
Weight	5.5Kg	5.7Kg	8.5Kg	8.7Kg
Dimensions	339x130x225		410x150x250	
Input Port	1/4"&3/8"SAE		1/4"&3/8"SAE	

3.2.2 Dual stage new refrigerant vacuum pump

Model	2F0	2F1
Voltage	230V~/50-60Hz or 115V~/60Hz	
Ultimate Vacuum	15 microns	
Flow Rate (Max.)	1.5CFM	2.5CFM
	42L/min	71L/min
Oil Capacity	280ml	280ml
Weight	4.7Kg	4.7Kg
Dimensions	309x113x198	
Input Port	1/4"SAE	

Model	2F0R	2F1R	2F1.5R	2F2R	2F3R	2F4R	2F5R
Voltage	230V~/50-60Hz or 115V~/60Hz						
Ultimate Vacuum	15 microns						
Flow Rate (Max.)	1.5CFM	2.5CFM	3CFM	5CFM	7CFM	9CFM	11CFM
	42L/min	71L/min	85L/min	142L/min	198L/min	255L/min	312L/min
Oil Capacity	280ml	280ml	480ml	450ml	520ml	500ml	480ml
Weight	4.2Kg	4.2Kg	6.2Kg	6.5Kg	9.8Kg	10Kg	10.2Kg
Dimensions	309x113x198		339x130x225		410x150x250		
Input Port	1/4"SAE		1/4"&3/8"SAE		1/4"&3/8"SAE		

3.2.3 Cordless vacuum pump

Model	F1B	2F0B	2F0BR	2F1B	2F1BR	F2BR	2F2BR
Voltage	DC18V-5.0Ah						
Standard Battery holder	AEG/RIDGID						
Ultimate Vacuum	150 microns	15 microns					
Flow Rate (Max.)	1.5CFM	1.5CFM	1.5CFM	2.5CFM	2.5CFM	5CFM	5CFM
	42L/min	42L/min	42L/min	71L/min	71L/min	142L/min	142L/min
Oil Capacity	370ml	280ml	280ml	280ml	280ml	580ml	450ml
Weight	5.0Kg	5.5Kg	5.0Kg	5.5Kg	5.0Kg	6.5Kg	7.5Kg
Dimensions	358x113x198					388x130x225	

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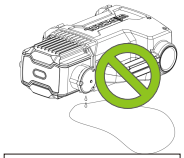
⚠ REMARK

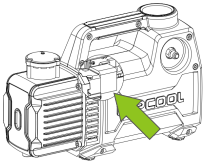
1.Model No. has **R** means Non sparking design,suitable for equipment using new and old refrigerent(such as R12,R22,R134a,R410A...) It is also suitable for the equipment using lower flammabiltiy and explosibility refrigerant(such as R32 ,R290a, R1234yf...)
(F2R,F2BR,F3R,F4R,F5R,2F0R,2F0BR,2F1R,2F1BR,2F1.5R,2F2R,2F2BR, 2F3R,2F4R,2F5R)

2.Model No. doesn't have **R** are suitable for equipment using new and old refrigerant(such as R12,R22,R134a,R410A...) But it is prohibited using on the equipment using lower flammabiltiy and explosibility refrigerant(such as R32 , R290a, R1234yf...)
(F1,F1B,F1.5,F2,F3,2F0,2F0B,2F1,2F1B,2F1.5,2F2)

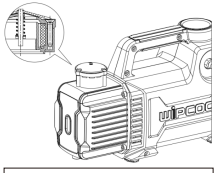
3.3 Product Features



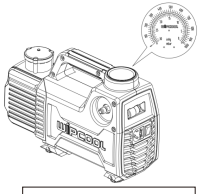
Anti oil leakage design



Built-in solenoid valve



Special anti-injection design



Top-set vacuum meter

4. Operating Procedure

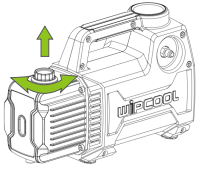
4.1 Check before Operation

Please check before use whether the products and accessories are in good condition and there is no vacuum oil leakage in the packing box.

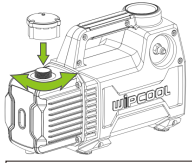
⚠ Note

This product has been filled with vacuum oil and no need to fill before use.

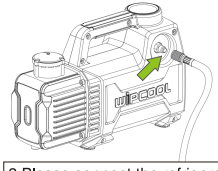
4.2 Method of Application



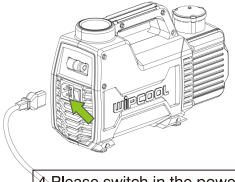
1.Please unscrew the leak-proof cover and remove it.



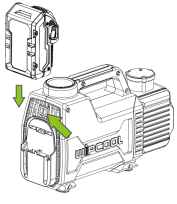
2.Find the exhaust fitting in packing box and screw it in.



3.Please connect the refrigeration equipment that needs vacuuming.



4.Please switch in the power supply and turn on the switch.



4.If cordless vacuum pump, please find the battery in the packing box and insert it into the back seat, then turn on the switch.

5. Maintenance

■ Please pay attention to the oil level before each use. If the oil level is low, please add in time.

■ If the vacuum pump oil is found to be blackened or abnormally floating, please change the oil in time.

■ When changing oil, please unscrew the oil drain bolt under the oil tank, release oil and tighten the bolt, then unscrew the exhaust fitting again. Slowly pour the oil in, turn on the machine and observe that the oil level is stable in the middle of the oil level line, then turn back the exhaust fitting. (Due to the built-in anti-side oil leakage device, the oil filling speed may be affected, please add slowly)

6. Troubleshooting

Problem	Cause	Action
Low vacuum degree	1.Vacuum oil not enough	Add oil to middle level
	2. Pump oil emulsified, not clean	Change new vacuum oil
	3. The oil inlet is blocked or oil supply not enough	Clean the oil inlet and filter screen
	4. Leakage of vacuum pipe or container	Check leakage in pipes and containers and repair
	5. Pump model is not suitable	Check the size of the container to be pumped and select a matching vacuum pump
	6. Long period use, the parts are worn, the spacing is increased, or the pipeline in the pump leaks	Repair or replace a new vacuum pump
	7.There are impurities on the sealing surface of the exhaust fitting	Check and remove impurities
Oil Leakage	1.Oil seal wear	Replace the new oil seal
	2.Loose or damage of oil tank connection	Tighten screws or replace O - rings

Pump hard to start	1.The oil temperature is too low	Connect the air inlet to the atmosphere, start the motor continuously to heat pump oil
	2.Motor or power problems	Check and repair
	3.Impurities enter into the pump	Check and remove impurities
Pump unable to start or stop suddenly	1.Fuse blown	Check and replace
	2.Motor or power problems	Check and repair