

FJC

Air Conditioning Products
Tools, Equipment & Refrigerant

2-STAGE ROTARY VANE CORDLESS VACUUM PUMP MANUAL

Part # 690718VT



FJC AIR CONDITIONING PRODUCTS
TOOLS, EQUIPMENT & REFRIGERANT

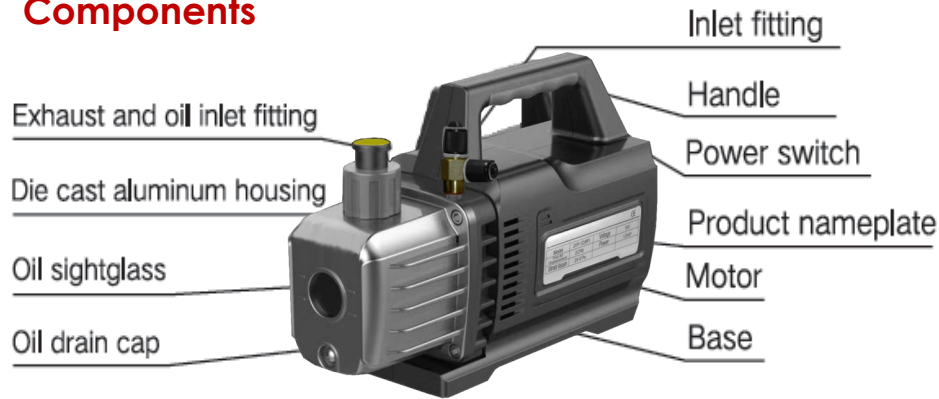
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SPECIFICATIONS

Components



Technical Data

Dual Stage Rotary Vane Vacuum Pump

Part # 6907

Voltage	DC 18V—5.00AH
Ultimate Vacuum (pa)	2×10^{-1}
Power	1/3 HP
Flow Rate	2 CFM
Size	335 x 100 x 182
Inlet Port	7/16" - 20UNF
Net Weight (kg)	4.1

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FEATURES

Description

- The two-stage, offset rotary vane design provides powerful, quiet, high vacuum capability and ensures moisture removal, while the high pumping capacity reduces evacuation time.
- The design of the dual-stage rotor improves ultimate vacuum and extraction rate, reduces the exhaust time of the pump, and ensures the complete removal of refrigerant and moisture from the system.
- The long-acting inlet filter can effectively prevent contaminants from entering the pump chamber, and can effectively separate the oil mist from the exhaust gas.
- Smaller size and lighter weight makes it more convenient to carry and use.
- Comfortable and strong handle is reliable to use during operation.
- Quality materials - aluminum oil tank bracket and motor housing make the pump lighter and the metal base secures the unit during use.

Safety Warnings



To avoid personal injury, please read entire instruction manual prior to using the unit.



Always wear protective gloves and eyewear when working with refrigerant. Avoid contact of refrigerant with skin or eyes.



This vacuum pump may produce sparks and is not to be used with any flammable gases, including R-32, R-600a, and R-1234yf.



To ensure the safety of the product, please use a 18V 6AH lithium battery from a reputable manufacturer.



Never disassemble, open or cut battery pack. Keep away from heat source and direct sunlight.



Keep the battery and its contacts clean and dry. Do not use if damaged or if there is a discharge.



Do not use this product in the rain or in any situation where water, snow or ice may contact the unit. To do so might cause electrical shock.



When the battery is discharged, turn off the vacuum pump.

Pump Operation

1. Check to ensure the power supply used is consistent with the power supply voltage and frequency marked on the product nameplate.
2. Switch the pump to "off" before connecting the power supply.
3. Remove the exhaust cap on the catcher and turn power "on" to begin operation.
4. When refueling, keep the oil level between the lower and upper limits. If the oil level is too low, the performance of the pump will be reduced, and if it is too high, oil mist will be expelled.
5. Confirm that the extraction container and hoses have no leaks.
6. After use close the valve between the pump and container. Turn the power switch off. Remove connecting hose.
7. Close air inlet cap and exhaust cap to prevent contamination.

Battery Charging

Note: Battery is sold separately. Manufacturer's instructions supercede these instructions.

1. Remove the battery from the vacuum pump and insert it into the charger.
2. Ensure the power supply voltage used is connected with the input voltage of the charger.
3. If the charging indicator is red, it means the battery is charging. If the indicator is green, it means it is fully charged.
4. It is normal for the battery shell to feel warm during charging.
5. If the vacuum pump will be idle for an extended period of time, the battery should be removed.
6. The battery should be fully charged prior to use.
7. Ambient temperature should be between 50—110° during charging.

1. Use appropriate vacuum pump oil. We recommend FJC Vacuum Pump Oil, Part # 2202 (8 oz) or 2200 (Quart).
2. If the pump oil appears cloudy or polluted, change the oil using the following instructions:
 - To ensure the pump is in a "hot" state, run the pump for one minute prior to the oil change.
 - Open the air inlet while the pump is running so that the oil in the pump cavity flows out. Close the switch to stop the pump and open the drain plug to discharge the waste oil.
 - Properly dispose of waste oil, following federal, state and local regulations.
 - When the oil stops flowing, tilt the vacuum pump to completely drain the unit.
 - Tighten the drain plug.
 - Open the trap and add new pump oil.
 - Cover the air intake valve, check the oil level after running the pump for one minute. Add more if needed. Screw on trap.

Common Troubleshooting

TYPE	CAUSE	METHOD
LOW VACUUM	1. Loose air cap on the spare port side of air inlet	Tighten the air intake cap
	2. Damaged O-ring in the air inlet cap	Replace O-ring
	3. Insufficient oil	Fill to the center line of the oil mark
	4. Pump oil appears cloudy or dirty	Replace the oil
	5. Pump oil inlet blocked, or insufficient oil supply	Clean the oil inlet and clean the filter
	6. Pumped pipeline container leakage	Inspect connected pipeline containers to prevent leaks
	7. Vacuum Pump model is not suited for job	Check size of system being pumped and select model
	8. The pump is past its lifespan, or parts are worn	Check and repair, or replace pump
OIL LEAK	1. Damaged oil seal	Replace the oil seal
	2. Loose or damaged fuel tank connections	Check and repair, or replace pump
FUEL INJECTION	1. Too much oil	Drain to the proper oil level
	2. Import pressure is too high for a long time	Choose the correct pump to increase pump speed
DIFFICULT TO START	1. Oil temperature is too low	Air inlet is open. Repeatedly start the motor, or heat oil
	2. Defective motor or power supply	Check and repair
	3. Foreign objects are in the pump	Check and repair
	4. Voltage of the power supply is too low	Check the supply voltage

FJC Warranty

Your FJC product purchase is warranted against defects in materials and workmanship for a period of ONE (1) YEAR from the date of purchase when used in accordance with its product user manual or instructions.

FJC's sole obligation under this warranty shall be to repair or replace any defective product or parts thereof which are returned to our factory. This warranty shall not exceed the original purchase price.

This warranty does not cover normal depletion of consumable parts such as batteries unless failure has occurred due to a defect in materials or workmanship. This warranty also excludes damage resulting from abuse, accident, modifications, unauthorized repairs or any other causes which are not defects in materials or workmanship.

FJC shall not be responsible for any special or consequential damages and the warranty as set forth is in lieu of all other warranties expressed or implied. FJC makes no warranty, nor does it imply merchantability to the use of this product for any purpose other than the intended use which is stated in this manual.

Due to ongoing testing and product research, FJC reserves the right to change product design and/or pricing without notice.