

ELITECH NVP-3/5 VACUUM PUMP OPERATING INSTRUCTIONS



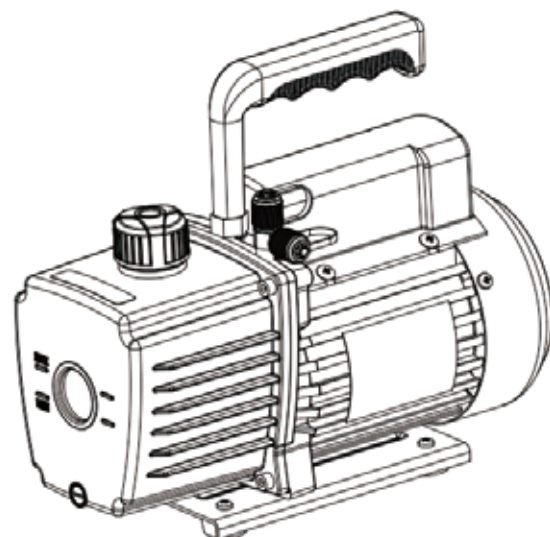
DO NOT ATTEMPT TO OPERATE WITHOUT USING OIL!!!

Use oil specifically refined for deep vacuum pumps. Use of oil not refined for deep vacuum pumps and/or operating with contaminated oil will void warranty.



PARAMETER

	POWER	CFM	VOLTAGE
NVP-3	180W	1.5 L/S	110V/220V
NVP-5	250W	2 L/S	110V/220V



WARNING

1. Do not evacuate combustible, explosive or poisonous gases.
2. Do not evacuate gases that corrode metal or react chemically with pump oil.
3. The temperature of evacuated gas shall not exceed 176°F (80°C) and ambient temperature shall be 41 - 140°F (5 - 60°C).
4. Do not operate without oil.
5. Pump and motor can be extremely hot to the touch in high ambient temperature conditions. Please do not touch the fuel tank or motor casing during operation.
6. Do not block vacuum pump exhaust.
7. Removing refrigerant under high pressure will damage the pump body, and it is recommended to use specialized equipment.

CAUTION

To reduce the danger of electric shock, keep the pump indoors and do not expose to rain.

DANGER

1. Receptacle shall be well grounded, or else electric shock may be caused. Should power cord or plug require repair or replacement, do not use the pump. If you cannot fully understand grounding instructions and have doubt whether correct grounding is made, check with a professional electrician or service man. Do not change the structure of attached adapter connector.
2. When pulling out power plug, make sure to pull the plug rather than the wire.
3. Do not place anything on the power cord. It may damage the wire.
4. Do not use broken plug or socket.
5. Do not pull out power plug with wet hand.
6. Do not pull out, insert power plug or turn on power switch where flammable gases may be present.

OIL FILL

This vacuum pump has been tested at the factory and shipped with only trace amounts of oil.

OIL MUST BE ADDED BEFORE OPERATING! Failure to add oil will damage cartridge and void warranty! When the pump oil is emulsified or contaminated, please replace the vacuum pump oil in a timely manner.

CHECK OIL LEVEL

1. Start pump and run with intake port capped for about two minutes. Observe the oil level with the pump running. The oil level in the sight glass should be even with the level line.
2. If the level is low, open the intake port and run pump for 15 seconds, stop pump and observe oil level again. Add a small amount of oil as needed.

CHANGING OIL

In order to reach the deep vacuum required, your vacuum pump needs clean, moisture-free oil during evacuation. Dirty oil becomes a mixture of corrosive acids and water that effects the pump's ability to pull a deep vacuum. Left sitting in the pump, this sludge will rust and erode internal surfaces shortening the pump's life.

Care should be taken to avoid contact of oil with skin or eyes. OIL MAY BE HOT! Used oil should be properly disposed of in a leak-tight corrosion-resistant container according to local regulations.

1. To ensure that the pump is in a hot state, the pump needs to run for approximately 3-5 minutes during oil change;
2. When the pump is running, open the air inlet at the same time to force the oil in the pump chamber to flow out. Close the switch to stop the pump and then open the oil plug to release the waste oil; When the oil stops flowing, tilt the pump body to completely discharge the remaining waste oil.
3. Tighten the oil drain plug.
4. Open the trap and add new pump oil.
5. Cover the intake cap, start the pump and run for one minute to check the oil level. If the oil level is below the lower limit of the oil level line, slowly add oil to the normal level, and finally turn on the trap.

INTAKE CONNECTIONS

After use, replace all caps and finger-tighten. Do not use caps with damaged or missing o-rings and always store vacuum pump with capped ports to prevent dirt and moisture contamination.

PUMP MOTOR

PUMP MOTOR

The PUMP and OIL must be above 30°F (1°C). The line voltage must be equal to the rating on the motor nameplate $\pm 10\%$. Normal operating temperature is approximately 160°F (71°C), which is HOT to the touch! Line voltage and ambient temperature will affect the normal operating temperature. Your vacuum pump is designed for continuous duty and will run for extended periods without overheating. The motor has an automatic resetting overload protection feature. If the motor will not restart the pump after shut-off, it may have opened the thermal protection. Disconnect the pump from power, wait about 15 minutes for the motor to cool down and then try again.

INSTRUCTION

1. After correctly connecting the pipeline, check whether the inlet connection is tightened, whether the container being pumped and the pipeline used are sealed reliably, and there should be no leakage.
2. Turn on the power switch and the pump will start running.
3. After using the pump, close the valve between the pump and the container being pumped.
4. Turn off the power switch on the pump and unplug the power plug.
5. Dismantle the connecting pipeline.
6. Finally, tighten the intake cap to prevent dirt or floating particles from entering the pump chamber.

LIMITED WARRANTY INFORMATION

The Vacuum Pumps are warranted against defects in material and workmanship for a period of one year. This warranty does not cover failure due to abuse, improper usage, or progressive wear and tear. Warranty becomes valid to the original owner and is effective on the purchase date. **WARRANTY SERVICE IS PROVIDED THROUGH THE FACTORY ONLY.** Please contact the service department toll free for parts, service concerns, or to obtain a return authorization number for warranty repair.

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