



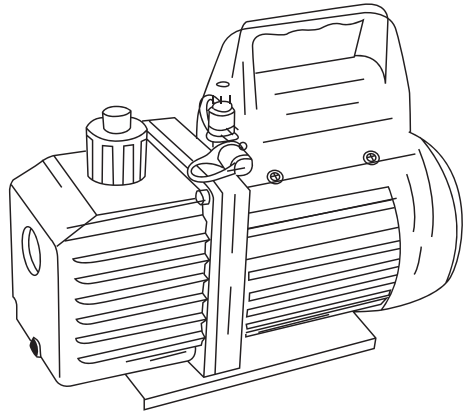
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VACUUM PUMP USER MANUAL

We continue to be committed to provide you tools with competitive price. "Save Half", "Half Price" or any other similar expressions used by us only represents an estimate of savings you might benefit from buying certain tools with us compared to the major top brands and does not necessarily mean to cover all categories of tools offered by us. You are kindly reminded to verify carefully when you are placing an order with us if you are actually Saving Half in comparison with the top major brands.



Model: VP125,VP135,VP150,VP245,VP280



(The picture is for reference only, please refer to the actual object)

NEED HELP? CONTACT US!

Have product questions? Need technical support? Please feel free to contact us:

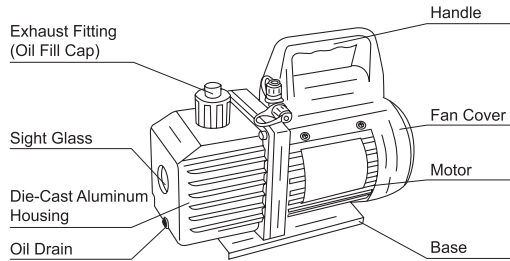
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This is the original instruction, please read all manual instructions carefully before operating. VEVOR reserves a clear interpretation of our user manual. The appearance of the product shall be subject to the product you received. Please forgive us that we won't inform you again if there are any technology or software updates on our product.

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I. Pump components



II. Operating Manual

1. Before using your vacuum pump

In all cases, motors are designed for operating voltages plus or minus 10% of the normal rating. Single voltage motors are supplied fully connected and ready to operate.

(1)Check to be sure the voltage and frequency at the outlet match the specifications on the pump motor decal. Check the ON-OFF switch to be sure it is in the OFF position before you plug the pump into an outlet.Remove and discard the exhaust cap from the end of the pump's handle.

(2)The pump is shipped without oil in the reservoir. Before starting the pump, fill it with oil. Remove the Exhaust Fitting cap and add oil until oil just shows in the bottom of the sight glass. The approximate oil capacity of the pump is 180~800ml(reference the technical data).

(3)Replace the Exhaust Fitting cap and remove the cap from one of the inlet ports. Turn the motor switch to ON. When the pump runs smoothly, replace the cap on the inlet port. This may take from two to 30 seconds depending on the ambient temperature. After the pump runs for approximately one minute check the sight glass for proper oil level. The level should be even with the sight glass oil level line. Add oil if necessary.

Note:When the pump is running, the oil level should be even with the line on the sight glass. Under filling will result in poor vacuum performance.Over filling can result in oil blowing from the exhaust.

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2.To shut down your pump after use

To help prolong pump life and promote easy starting. Follow these procedures for shutdown.

(1)Close the manifold valve between the pump and the system.

(2)Remove the hose from the pump inlet.

(3)Cap the inlet port to prevent any contamination or loose particles from entering the port.

III.To maintain your high vacuum pump

1.Vacuum pump oil:

The condition and type of oil used in any high vacuum pump are extremely important in determining the ultimate attainable vacuum. We recommend the use of High Vacuum Pump Oil. This oil has been specifically blended to maintain maximum viscosity at normal running temperatures and to improve cold weather starts.

2.Oil Change Procedure

(1)Be sure the pump is warmed up.

(2)Remove the OIL DRAIN cap. Drain contaminated oil into a suitable container and dispose of properly. Oil can be forced from the pump by opening the inlet and partially blocking the exhaust with a cloth while the pump is running. Do not operate the pump for more than 20 seconds using this method.

(3)When the flow of oil has stopped,tilt the pump forward to drain residual oil.

(4)Replace the OIL DRAIN cap.Remove the exhaust fitting and fill the reservoir with new vacuum pump oil until the oil just shows at the bottom of the sight glass.The approximate oil capacity of the pump is 180-800ml (reference the technical data).

(5)Be sure the inlet ports are capped then turn on the pump. Allow it to run for one minute then check the oil level space. If the oil is below the sight glass OIL LEVEL line add oil slowly (with the pump running) until the oil reaches the OIL LEVEL line. Replace the exhaust fitting, making sure the inlet is capped and the drain cap is tight.

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(6)a)If the oil is badly contaminated with sludge that forms when water is allowed to collect in the oil, you may need to remove the oil reservoir cover and wipe it out.

b)Another method of dealing with heavily contaminated oil is to force the oil from the pump reservoir. To do this, allow the pump to run until it is warmed up. While the pump is still running remove the oil drain cap.Slightly restrict the exhaust. This will back-pressure the oil reservoir and force the oil from it, carrying more contamination. When the oil ceases to flow, turn off the pump.

Repeat this procedure as required until the contaminatin is removed.

Replace the OIL DRAIN cap and refill the reservoir to the proper level with fresh pump oil.

IV.Troubleshooting Guide

Your pump has been for dependable use and long life. If something should go wrong, the following guide will help you get the pump back into service as quickly as possible.

If diassembly of the pump is required, please check your warranty.The warranty may be voided by misuse or customer tampering which results in the pump being inoperable.

1.Failure To Start

Check the line voltage. The pump ned to start at $\pm 10\%$ line voltage (loaded) at 32°F. At extremes, switching between the startand run windings may occur.

2.Oil leakage

(1)Be sure the oil is not a residual accumulation from spillage, etc.

(2)If leakage exists the module cover gasket or the shaft seal may need replacing.

If leakage exists in the area of the oil drain plug you may need to reseal the plug using a commercial pipe thread sealer.

3.Failure To Pull A Good Vacuum

(1)Be sure the vacuum gauge and all connections are in good condition and leak free. You can confirm leakage by monitoring the vacuum with a thermistor gauge while applying vacuum pump oil at connections or suspected leak points. The vacuum

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will improve briefly while the oil is sealing the leak.

(2)Be sure the pump oil is clean. A badly contaminated pump may require several oil flushes.

(3)Be sure the oil is at the proper level. For maximum pump operation,the oil must be even with OIL LEVEL line on the sight glass when the pump is running. Do not overfill---- operating temperatures will cause the oil expand, so it will appear at a higher level than when the pump is not running. To check the oil level, start the pump with the inlet capped, Check the oil level in the sight glass. Add oil if necessary.

V.Technical Parameter

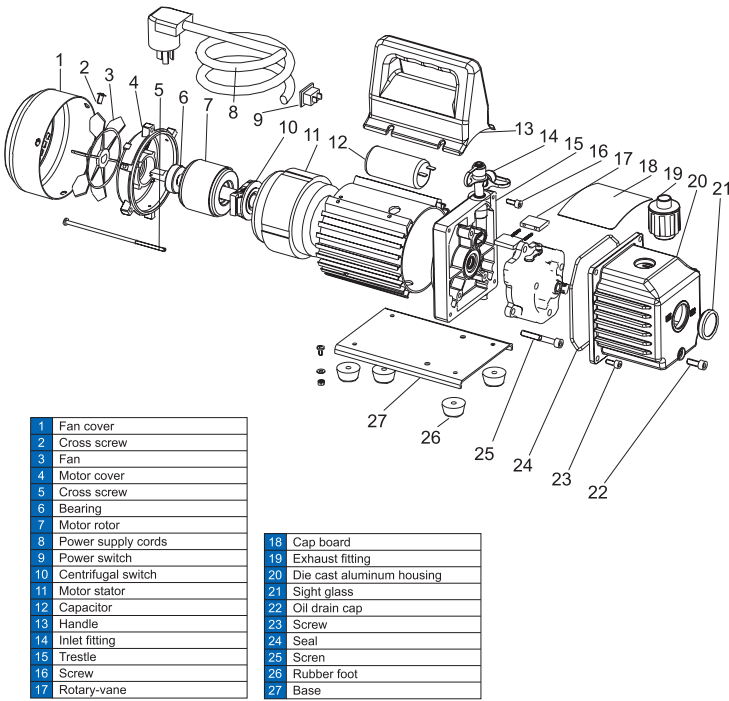
Single Stage Vacuum Pump				
Model		VP125	VP135	VP150
Voltage		110~120V/60Hz	110~120V/60Hz	110~120V/60Hz
Free Air Displacement	CFM	3.5	4	5
	L/min	100	114	142
Ultimate Vacuum	Pa	5	5	5
	mbar	0.05	0.05	0.05
Motor		1/4	1/3	1/2
Intake Fitting		1/4"SAE&1/2"Acme	1/4"SAE&1/2"Acme	1/4"SAE&1/2"Acme
Oil Capacity(ml)		330	350	350
Dimensions(mm)		270x120x225	270x120x225	275x120x225
Net Weight(kg)		5.1	5.2	6

Dual Stage Vacuum Pump				
Model		VP245	VP280	
Voltage		110~120V/60Hz	110~120V/60Hz	
Free Air Displacement	CFM	5	10	
	L/min	142	283	
Ultimate Vacuum	Pa	2x10 ⁻¹	2x10 ⁻¹	
	mbar	0.002	0.002	
	Microins	15	15	
	Motor	1/2	1	
Intake Fitting		1/4"SAE&1/2"Acme	1/4"SAE&1/2"Acme+3/8"SAE	
Oil Capacity(ml)		500	600	
Dimensions(mm)		280x120x240	390x140x250	
Net Weight(kg)		7.6	15.7	

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VI.Exploded Drawing



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