



VACUUM GAUGES

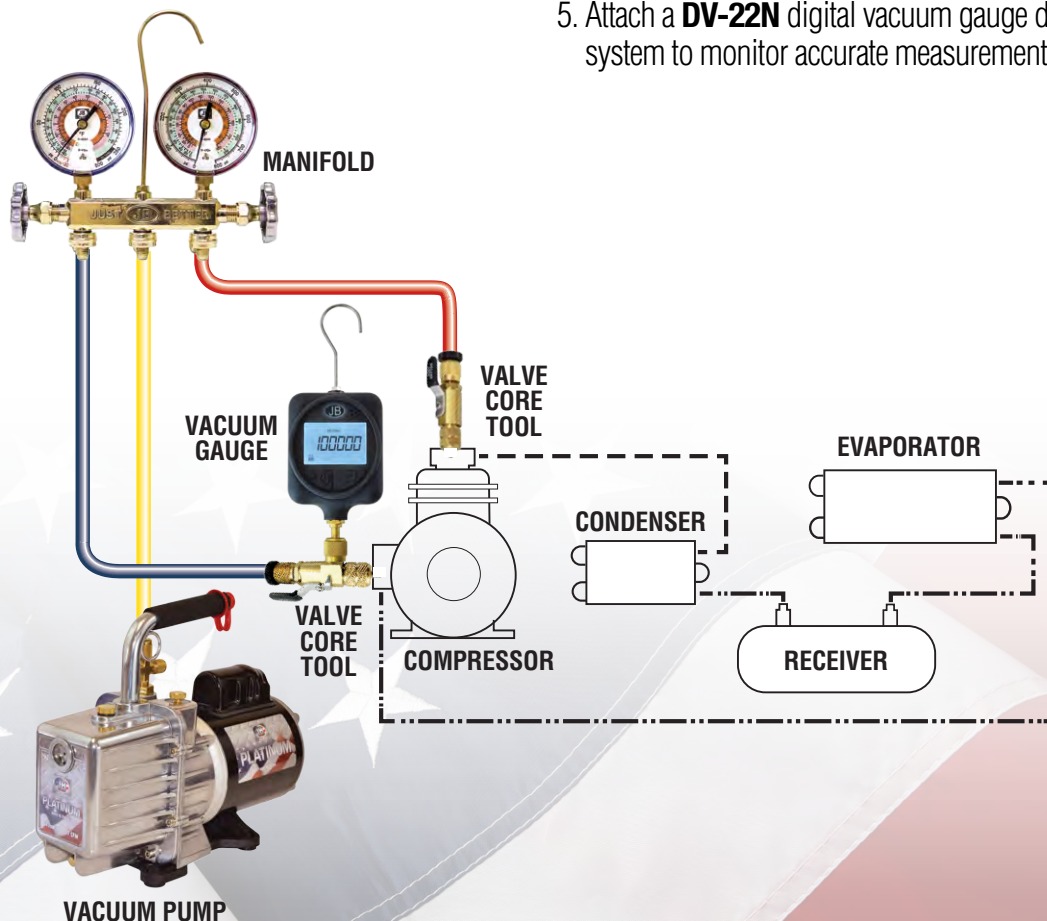
USING A VACUUM GAUGE

Digital vacuum gauges such as the **DV-41 SUPERNOVA**, the **DV-40S** or the **DV-22N** can precisely read the low pressures produced when evacuation/dehydration is complete. Evacuation is complete when a system holds at 500 microns. Although a compound gauge can indicate that a vacuum is being produced, it cannot measure pressure accurately or indicate whether moisture or contaminants remain in the system. A digital vacuum gauge can positively indicate that the system is free of leaks and non-condensables.

Placement of the digital vacuum gauge is important. The ideal location to measure vacuum is at the system, not the pump. Attach the digital vacuum gauge directly to the system, isolating the gauge from the pump, hoses and manifold for an accurate measurement of the vacuum in a system.

For faster evacuation time and to achieve optimum pump performance:

1. Select the correct pump CFM.
2. Use clean oil and be sure to change pump oil with **BLACK GOLD** Vacuum Pump Oil after each use. Clean oil improves pump efficiency and extends pump life.
3. Remove restrictive valve cores from both high and low side fitting with the **A32525N** and **A32500N** valve core tools.
4. Evacuate both high and low side of the system simultaneously with a short, 3/8" diameter or larger size evacuation hose, such as the **VL-100 VELOCITY** Rapid Evacuation Kit.
5. Attach a **DV-22N** digital vacuum gauge directly to the system to monitor accurate measurement of vacuum.



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VACUUM PUMP TIPS

USING A VACUUM GAUGE

Change Your Pump Oil

Deep vacuum cannot be achieved with contaminated oil, which can damage pump and shorten pump life. JB recommends pump oil be changed after every evacuation for maximum performance and pump efficiency. JB Black Gold Pump Oil Acts as a coolant, lubricant and sealant—simultaneously. Available in pint, quart and gallon sizes.

Use a Micron Vacuum Gauge

The best test to check for oil contamination is through a micron gauge. In a leak-free system, if micron gauge is not reading a deep vacuum, the oil is contaminated and should be changed. During testing process is the only time it is recommended to have a micron gauge attached directly to pump.

DV-T1 Tank Pump Oil Caddy

- Change oil between jobs
- No more mess and spills
- Easy, convenient, and portable
- Capacity for five oil changes

Choosing Proper CFM

CFM² = Maximum Tonnage Rating

Take the CFM rating and multiply it by that number to find the maximum number of tons a pump is rated for:

3 CFM pump (3x3) is rated for 9 tons

7 CFM pump (7x7) is rated for 49 tons

Depending on the system line size, it is better to use two or more small, easily maneuverable pumps at different locations to overcome pressure drop issues and evacuate faster than a single, large pump. Pumps in the 1.5 to 10 CFM class are adequate to handle 99% of the work.

JB pumps are built to last and are the best and longest lasting pumps in the industry. To learn how to properly care for your pump, visit www.jbind.com.



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