

# VACUUM PUMPS

## CHOOSING CFM

CFM<sup>2</sup> = Maximum Tonnage Rating. Take the CFM rating of a pump and multiply it by that number to find the maximum number of tons the pump is rated for:

**3 CFM pump (3 x 3) is rated for 9 tons**

**7 CFM pump (7 x 7) is rated for 49 tons**

Depending on the system line sizes of large tonnage systems, it is better to put two or more smaller, easily maneuverable pumps at different locations. This will overcome some of the pressure drop problems 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. To learn how to properly care for your pump, visit us online at [www.jbind.com](http://www.jbind.com).



## HOW TO MEASURE EVACUATION

A micron is a unit of pressure starting from a perfect vacuum (no pressure) expressed in linear increments. One inch equals 25,400 microns. The last inch of pressure below zero on the low side compound gauge is 25,400 microns.

A compound gauge only indicates that a vacuum is being produced, but does not tell you if moisture or contaminants are still in the system. Evacuation is complete when the last inch of pressure as indicated on the gauge is 25,400 microns. A system holds 500 microns to ensure dehydration is complete.

Therefore, there is a small fraction of an inch difference between a complete evacuation and an inadequately evacuated system. A compound gauge cannot measure this pressure at these levels accurately.

Only a micron gauge like the Supernova™ DV-40S or our DV-22N can accurately read the low pressures produced when evacuation/dehydration is complete.



DV-40S  
Wireless Digital Micron Gauge

ELIMINATOR® PUMPS			
	<b>DV-3E</b>	<b>DV-4E</b>	<b>DV-6E</b>
<b>CFM</b>	3 CFM (85 l/m)	4 CFM (113 l/m)	6 CFM (170 l/m)
<b>MOTOR</b>	1/2 HP, 1725 RPM	1/2 HP, 1725 RPM	1/2 HP, 1725 RPM
<b>VOLTAGE</b>	115v, 60Hz	115v, 60Hz	115v, 60Hz
<b>PLUG</b>	US 110v	US 110v	US 110v
<b>INTAKE PORT</b>	1/4" x 3/8"	1/4" x 3/8"	1/4" x 3/8"
<b>OIL CAP</b>	28 oz (828 cc)	25 oz (739 cc)	25 oz (739 cc)
<b>SHIP DIMENSIONS</b>	17-5/8" h x 9-1/8" w x 14" l	17-5/8" h x 9-1/8" w x 14" l	17-5/8" h x 9-1/8" w x 14" l
<b>WEIGHT</b>	29 lbs (13.2 kg)	30 lbs (13.6 kg)	30 lbs (13.6 kg)
<b>DUAL VOLTAGE</b>			<b>-250</b>
	<b>DV-3E-250</b>	<b>DV-4E-250</b>	<b>DV-6E-250</b>
<b>MOTOR</b>	1/2 HP, 1725 (1425) RPM	1/2 HP, 1725 (1425) RPM	1/2 HP, 1725 (1425) RPM
<b>VOLTAGE</b>	US 110v	US 110v	US 110v
<b>PLUG</b>	1/4" x 3/8"	1/4" x 3/8"	1/4" x 3/8"
<b>EUROPEAN</b>			<b>-250EU</b>
	<b>DV-3E-250EU</b>	<b>DV-4E-250EU</b>	<b>DV-6E-250EU</b>
<b>MOTOR</b>	1/2 HP, 1425 RPM	1/2 HP, 1425 RPM	1/2 HP, 1425 RPM
<b>VOLTAGE</b>	230v/50Hz	230v/50Hz	230v/50Hz
<b>PLUG</b>	European	European	European
<b>UNITED KINGDOM</b>			<b>-250UK</b>
	<b>DV-3E-250UK</b>	<b>DV-4E-250UK</b>	<b>DV-6E-250UK</b>
<b>MOTOR</b>	1/2 HP, 1425 RPM	1/2 HP, 1425 RPM	1/2 HP, 1425 RPM
<b>VOLTAGE</b>	230v/50Hz	230v/50Hz	230v/50Hz
<b>PLUG</b>	UK	UK	UK