

ELIMINATOR®

THE BEST AMERICAN MADE ECONOMY PUMP

100% FIELD REPAIRABLE ★ 24 MONTH OTC WARRANTY ★ 25 MICRON RATING

ELIMINATOR® VACUUM PUMP

Built for the air conditioning serviceman who wants a high quality, dependable vacuum pump, the ELIMINATOR® series offers many higher end features with an affordable price. American made & 100% tested to JB's stringent quality standards, the ELIMINATOR® is the best economy vacuum pump in the industry. Because each ELIMINATOR® is made at our factory in Aurora, Illinois, American pride is built into each one of these workhorses.

100% TESTED

FEATURES:

- Large, easy-to-see sight glass ensures proper oil level
- 2 Stage direct drive to achieve deep 25 micron vacuum
- Oil fill isolated on cover for easy access
- Increased spacing between intake tee and handle for more room
- Tethered safety cap prevents oil spills during transport
- 1/2 HP capacitor start motor with thermal overload protection
- Well-protected drain valve
- Sealed with O-ring to prevent leaks
- All metal construction including all brass fittings



1. BURNISHED HEAVY METAL PLATING

2. INCREASED OIL CAPACITY FOR COOLER RUNNING TEMPERATURE AND REDUCED CONTAMINATION

3. ERGONOMIC 1/2" NPT BREAK RESISTANT HANDLE ENCOMPASSES EXHAUST



YouTube



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AMERICAN PRIDE & EXPERTISE

*Backed by an unprecedented 24 month Over-The-Counter Warranty**

Completely field repairable, our ELIMINATOR® series is built to withstand the toughest jobs.

Turn to **page 80** for a complete list of repair parts.

CHOOSING CFM

CFM² = Maximum Tonnage Rating. Therefore, 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. A 3 CFM pump (3 x 3) is rated for 9 tons. A 7 CFM pump (7 x 7) is rated for 49 tons. In many cases, 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.

US DOMESTIC

	DV-3E	DV-4E	DV-6E
CFM	3 CFM (85 l/m)	4 CFM (113 l/m)	6 CFM (170 l/m)
MOTOR	1/2 HP, 1725 RPM	1/2 HP, 1725 RPM	1/2 HP, 1725 RPM
VOLTAGE	115v, 60Hz	115v, 60Hz	115v, 60Hz
PLUG	Std. US 110v	Std. US 110v	Std. US 110v
INTAKE PORT	1/4" x 3/8"	1/4" x 3/8"	1/4" x 3/8"
OIL CAP	28 oz (828 cc)	25 oz (739 cc)	25 oz (739 cc)
SHIP DIMENSIONS	17-5/8" h 9-1/8" w 14" l	17-5/8" h 9-1/8" w 14" l	17-5/8" h 9-1/8" w 14" l
WEIGHT	29 lbs (13.2 kg)	30 lbs (13.6 kg)	30 lbs (13.6 kg)

DUAL VOLTAGE

	DV-3E-250	DV-4E-250	DV-6E-250
MOTOR	1/2 HP, 1725/1425 RPM	1/2 HP, 1725/1425 RPM	1/2 HP, 1725/1425 RPM
VOLTAGE	115v, 60Hz, 230v/50Hz	115v, 60Hz, 230v/50Hz	115v, 60Hz, 230v/50Hz
PLUG	Std. US 220v	Std. US 220v	Std. US 220v

EURO

	DV-3E-250EU	DV-4E-250EU	DV-6E-250EU
MOTOR	1/2 HP, 1425 RPM	1/2 HP, 1425 RPM	1/2 HP, 1425 RPM
VOLTAGE	230v/50Hz	230v/50Hz	230v/50Hz
PLUG	Euro	Euro	Euro

UNITED KINGDOM

	DV-3E-250UK	DV-4E-250UK	DV-6E-250UK
MOTOR	1/2 HP, 1425 RPM	1/2 HP, 1425 RPM	1/2 HP, 1425 RPM
VOLTAGE	230v/50Hz	230v/50Hz	230v/50Hz
PLUG	UK	UK	UK

Operating Temperature 150°F +/- 18° F (60° C +/- 10°C)

* Subject to warranty as set forth on page 74: Warranty Terms & Conditions of sales set forth at www.jbind.com

To check vacuum accurately, use the DV-40 SUPERNOVA, DV-40S or the DV-22N (see pages 12, 13 & 14).

Operating instructions available on our web site at 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. That last inch of pressure below zero on the low side compound gauge (see illustration) 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 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-40 or our DV-22N (refer to pages 13 & 14) can accurately read the low pressures produced when evacuation/dehydration is complete.



DV-22N

THE LAST INCH OF PRESSURE AS INDICATED ON THE GAUGE IS 25,400 MICRONS.



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