

# ELIMINATOR

DEEP VACUUM

CHARGING EQUIPMENT

GAUGES

HOSES

ACCESS VALVES

TOOLS & ACCESSORIES

BRASS FITTINGS

REPAIR PARTS

INDEX

1/2 HP CAPACITOR START MOTOR  
WITH THERMAL OVERLOAD PROTECTION

24 MONTH  
WARRANTY

LARGER 1/2" HANDLE NOW MORE  
ERGONOMIC

NEW/HEAVY DUTY PAINT COLOR

INCREASED SPACING BETWEEN INTAKE  
TEE AND HANDLE FOR MORE ROOM

2 STAGE DIRECT DRIVE TO  
ACHIEVE DEEP 25 MICRON  
VACUUM

AVAILABLE DOMESTIC 115  
VOLT, INTERNATIONAL 230  
VOLT, AND DUAL VOLTAGE

CHECK VALVE PREVENTS OIL  
BACK FLOW DURING POWER  
FAILURE

LOW PROFILE ROCKER SWITCH

ALL METAL CONSTRUCTION IN-  
CLUDING ALL BRASS FITTINGS

SCRATCH RESISTANT POWDER  
PAINTED COVER AND TRAP

TETHERED SAFETY CAP PRE-  
VENTS OIL SPILLS DURING  
TRANSPORT

INCREASED OIL CAPACITY FOR COOLER  
RUNNING TEMPERATURE AND REDUCED  
CONTAMINATION

LARGE, EASY-TO-SEE  
SIGHT GLASS ENSURES  
PROPER OIL LEVEL

25  
MICRON  
RATING

OIL FILL IS NOW ISOLATED ON COVER  
FOR EASY FILL

OIL EXHAUST FILTER ELIMI-  
NATES MIST FROM EXHAUST.  
SOLD AS AN ACCESSORY ON  
PAGE 9.

WELL-PROTECTED DRAIN VALVE  
SEALED WITH O-RING TO PREVENT LEAKS

MADE IN USA

## Best VALUE in the industry

Built for the Air Conditioning Serviceman who wants a high quality, dependable vacuum pump, the Eliminator® Series offers many higher end features without the higher end price. American made, 100% tested to JB's stringent quality standards, backed by an unparalleled \*\*24 month over-the-counter warranty, the Eliminator® is the best value vacuum pump in the industry. This is the only American made economy vacuum pump on the market and because each Eliminator® is made at our factory in Aurora, Illinois American pride is built into each one of these workhorses. Completely field repairable, these pumps are built to withstand the toughest jobs. Please refer to page 78 for a complete list of repair parts.

Operating instructions available on our web site at [www.jbind.com](http://www.jbind.com)

\*\*Subject to warranty as set forth on page 73 and warranty and terms and conditions of sales set forth at [www.jbind.com](http://www.jbind.com)

# ELIMINATOR® SERIES VACUUM PUMPS

## HOW TO CHOOSE THE RIGHT SIZE PUMPS

CFM<sup>2</sup>= 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. Therefore, 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 actually 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

DUAL

EURO  
U.K.

US DOMESTIC	DV-3E	DV-4E	DV-6E
<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>	Std. U.S. 110v	Std. U.S. 110v	Std. U.S. 110v
<b>INTAKE PORT</b>	1/4" x 3/8"	1/4" x 3/8"	1/4" x 3/8"
<b>OIL CAP</b>	24.5 oz. (724 cc)	22.5 oz. (665 cc)	22.5 oz. (665 cc)
<b>SHIP DIMENS.</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. (13.1 Kg)	30 lbs. (13.6 Kg)	30 lbs. (13.6 Kg)

DUAL VOLTAGE	DV-3E-250	DV-4E-250	DV-6E-250
<b>MOTOR</b>	1/2 HP 1725/1425 RPM	1/2 HP, 1725/1425 RPM	1/2 HP 1725/1425 RPM
<b>VOLTAGE</b>	115v/230v 50/60Hz	115v/230v 50/60Hz	115v/230v 50/60Hz
<b>PLUG</b>	Std. U.S. 220v	Std. U.S. 220v	Std. U.S. 220v

EURO	DV-3E-250EU	DV-4E-250EU	DV-6E-250EU
<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>	Euro	Euro	Euro

UNITED KINGDOM	DV-3E-250UK	DV-4E-250UK	DV-6E-250UK
<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

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



The last inch of pressure as indicated on the gauge is 25,400 microns.

### 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 new SUPERNOVA DV-40 or our DV-22 (refer to pages 10 and 11) can accurately read the low pressures produced when evacuation / dehydration is complete.

To check vacuum accurately, use the new DV-40 SUPERNOVA or the DV-22N (see pages 10 & 11).  
\*One Micron On A U-Tube Manometer. 25,400 Microns = 1"

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