



# 866

## HEAVY DUTY VACUUM PUMPS

Proudly Distributed By:  
**ARMSTRONG  
EQUIPMENT  
INC.**



### Features

- Lifetime warranty on housing against cracking
- Ductile iron housing
- The NVE bi-rotational, four port oil pump is exclusive to our “oil management system” delivering the precise amount of oil required for any job. Easily adjustable to 5-24 ounces per hour
- Rugged braided stainless steel oil delivery lines
- Vane flush port with valve
- Vane wear inspection port
- Integral, easily accessible & cleanable, stainless final filter
- Proven crash protection allowing all major components to survive a catastrophic failure
- Multiple drive options (gearbox, belt, hydraulic, and direct)
- Two year warranty against manufacturer defect
- Designed, built, and supported in the USA

### FAN-COOLED OR LIQUID COOLED 866 SPECIFICATIONS

AIR FLOW - FREE AIR	520 CFM
*FULL VACUUM	
MAXIMUM INTERMITTENT PRESSURE	20 PSI
*OPERATING RANGE - RPM	1000
HP REQUIRED @ FULL VACUUM	25
HP REQUIRED @ 20 PSI	38
PORTING SIZE	4"
SHAFT SIZE (3/8" KEY)	1 3/4"
PUMP DIMENSIONS	L 30 1/16" W 20 3/8" H 25 5/16"
APPROXIMATE WEIGHT	507 LBS

\*The maximum allowable operating vacuum will vary depending on R.P.M., ambient temperature, altitude and time running. The basic principle to keep in mind is - faster R.P.M., higher air temperature and longer run time all equal more heat in pump. When installing an NVE 866 pump we recommend a normal R.P.M. of 1000. Other speeds are OK as long as exhaust gas temperatures read on the supplied thermometer do not exceed 380 degrees F.

# Challenger

VACUUM PUMPS & BLOWERS

Weights and measurements are  
for reference only

800-699-7557 | [www.vacpump.com](http://www.vacpump.com)

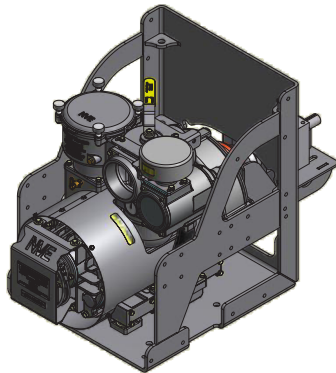


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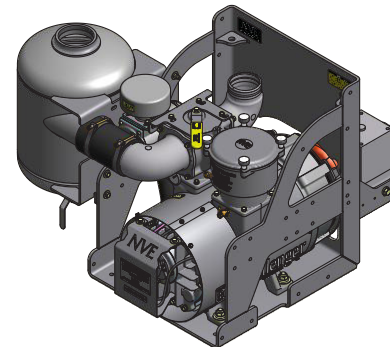
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## 866 Pump Stand Complete



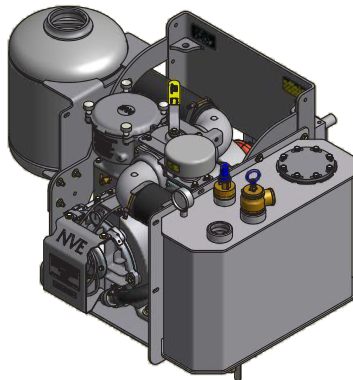
- Vacuum pump included; specify rotation, cooling type and muffler location (left or right)
- 14" round oil catch muffler
- Stainless steel mesh filter
- All elbows, fittings and high temp hoses are factory connected
- Right-hand or left-hand muffler location available
- L 44 11/16" W 22" H 27 1/2"

## 866 Muffler Package



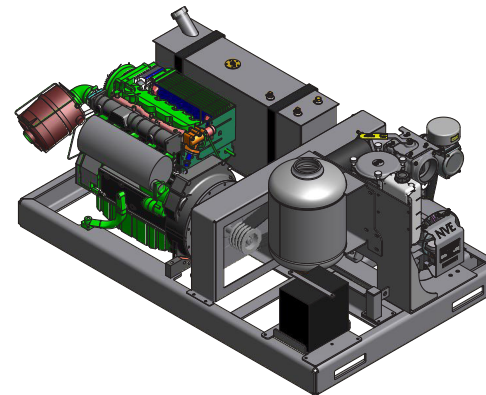
- Vacuum pump included; specify rotation, cooling type and muffler location (left or right)
- 14" round oil catch muffler
- Stainless steel mesh filter
- All elbows, fittings and high temp hoses are factory connected
- Right-hand or left-hand muffler location available
- L 44 11/16" W 22" H 27 1/2"

## 866 Max Package



- Vacuum pump included; specify rotation, cooling type and muffler location (left or right)
- 14" round oil catch muffler
- High efficiency aluminum moisture trap
- Accessible 6" stainless steel float ball
- BUNA positive shut-off ball seat
- 2" lever drain valve
- Blank intake flange standard
- Vacuum/pressure relief valve and gauge
- All elbows, fittings and high temperature hoses are factory connected
- Right-hand or left-hand muffler location available
- W 47 1/4" H 27 1/2"

## 866 Engine Drive Package



- Rugged, low profile for belly-mount application
- Power unit with control panel and tachometer
- 23 gallon steel fuel tank
- High efficiency oil catch muffler
- 12 volt high crank capacity battery
- Powder coat painted and factory assembled
- All elbows, fittings and high temperature hoses are factory connected.
- L 6' 4" W 3'-11 3/4" H 2'-9 13/16"

**Challenger** Series  
VACUUM PUMPS & BLOWERS

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