



National Vacuum Equipment

■ Part of Atlas Copco Group



887 PRO HEAVY DUTY VACUUM PUMPS

PRODUCT CATALOG

Challenger Series
VACUUM PUMPS & BLOWERS



Designed. Built. Supported in The USA.

800-253-5500 | www.natvac.com

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CONDITION OF SALES

To view NVE’s Condition of Sales, scan the QR Code to the right of this text with your phone’s camera or visit <https://natvac.com/ordering-information/>





MADE IN THE USA

887 PRO Heavy Duty Vacuum Pumps

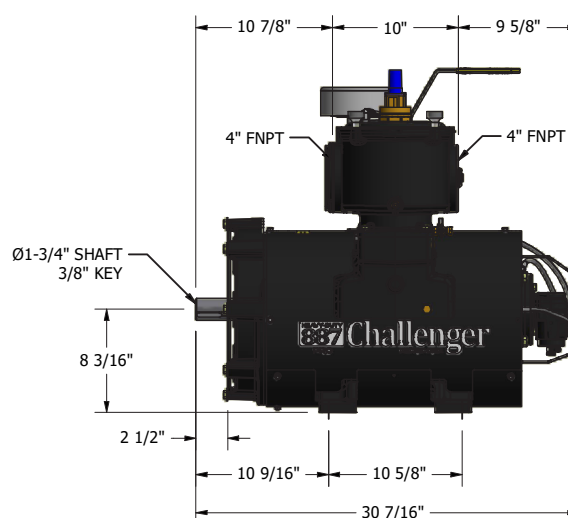
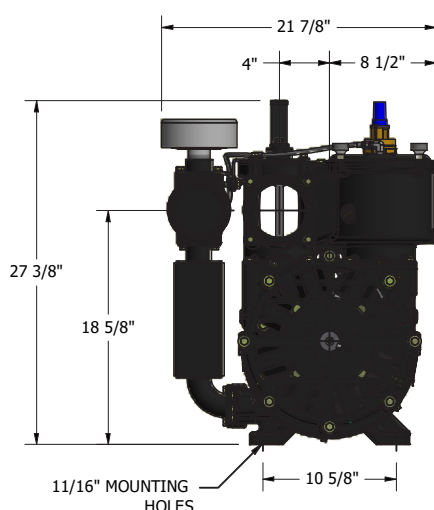


Features

- Proven crash protection allowing all major components to survive a catastrophic failure
- Four point automatic lubrication system
- Multiple drive options (gearbox and hydraulic)
- Integral, easily accessible, final filter
- Vane flush port with valve
- Vane wear inspection port on housing
- Enhanced axial load capabilities
- Lifetime warranty against cracked housing
- Two year warranty against manufacturer defect
- Vacuum-controlled ballast air cooling system
- Attached ballast silencing system
- Enhanced exhaust check for minimal free air obstruction
- Designed, built, and supported in the USA

FAN-COOLED 887 PRO CHALLENGER | SPECIFICATIONS

Air Flow - Free Air	532 CFM	
*Maximum Vacuum	28" HG	
*Operating Range - RPM	1100	1200
HP Required @ Full Vacuum	30	33
HP Required @ 10 PSI	27	31
HP Required @ 15 PSI	27	36
HP Required @ 20 PSI	33	42
HP Required @ 25 PSI	38	48
HP Required @ 30 PSI	50	54
Porting Size	4"	
Shaft Size (3/8" Key)	1 3/4"	



PRODUCT DESCRIPTION

Challenger 887 PRO CW Fan Cooled (Pictured Above)

PART NUMBER

103-887P-FD

WEIGHT

603 lbs

Challenger 887 PRO CCW Fan Cooled

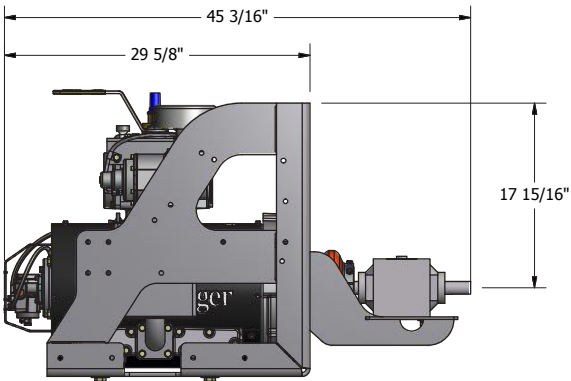
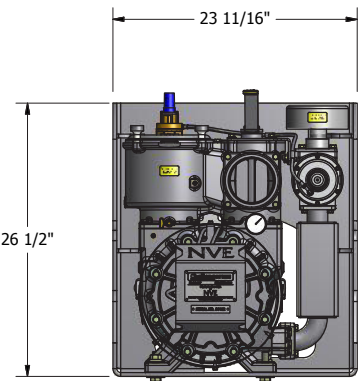
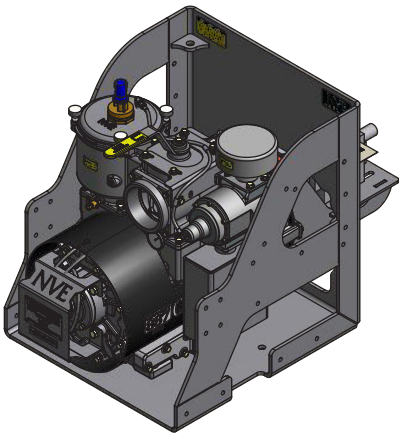
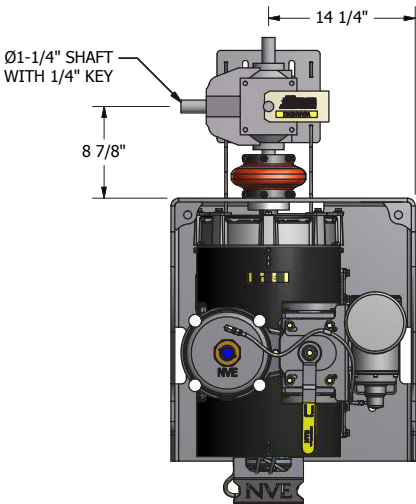
103-887P-FS

603 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 a NVE 887 pump we recommend a normal R.P.M. of 1100. Other speeds are ok as long as exhaust gas temperatures read on the supplied thermometer do not exceed 380 degrees F.

Features

- Vacuum pump included; specify rotation and cooling type
- Available for fan cooled and liquid cooled models
- Rugged 3/8" construction, powder coat painted, pump stand
- 400 series three-shaft gearbox accommodates clockwise and counter clock wise rotation
- Coupler set with shear protection
- Easy-align, adjustable gearbox bracket
- Also available with hydraulic drive
- Designed, built, and supported in the USA



PRODUCT DESCRIPTION	PART NUMBER	WEIGHT
887 PRO Fan Cooled CW Pump Stand Complete W/ Gearbox (Pictured Above)	117-887P-001-FD	841 lbs
887 PRO Fan Cooled CCW Pump Stand Complete W/ Gearbox	117-887P-001-FS	841 lbs
887 PRO Left Hand CW Pump Stand Complete W/Hydraulic Adapter Only	117-887P-001H-FD-A	815 lbs
887 PRO Left Hand CCW Pump Stand Complete W/Hydraulic Adapter Only	117-887P-001H-FS-A	815 lbs
887 PRO Fan Cooled CW W/Hydraulic Adapter Only	117-887P-HYD-FD-A	640 lbs
887 PRO Fan Cooled CCW W/Hydraulic Adapter Only	117-887P-HYD-FS-A	640 lbs



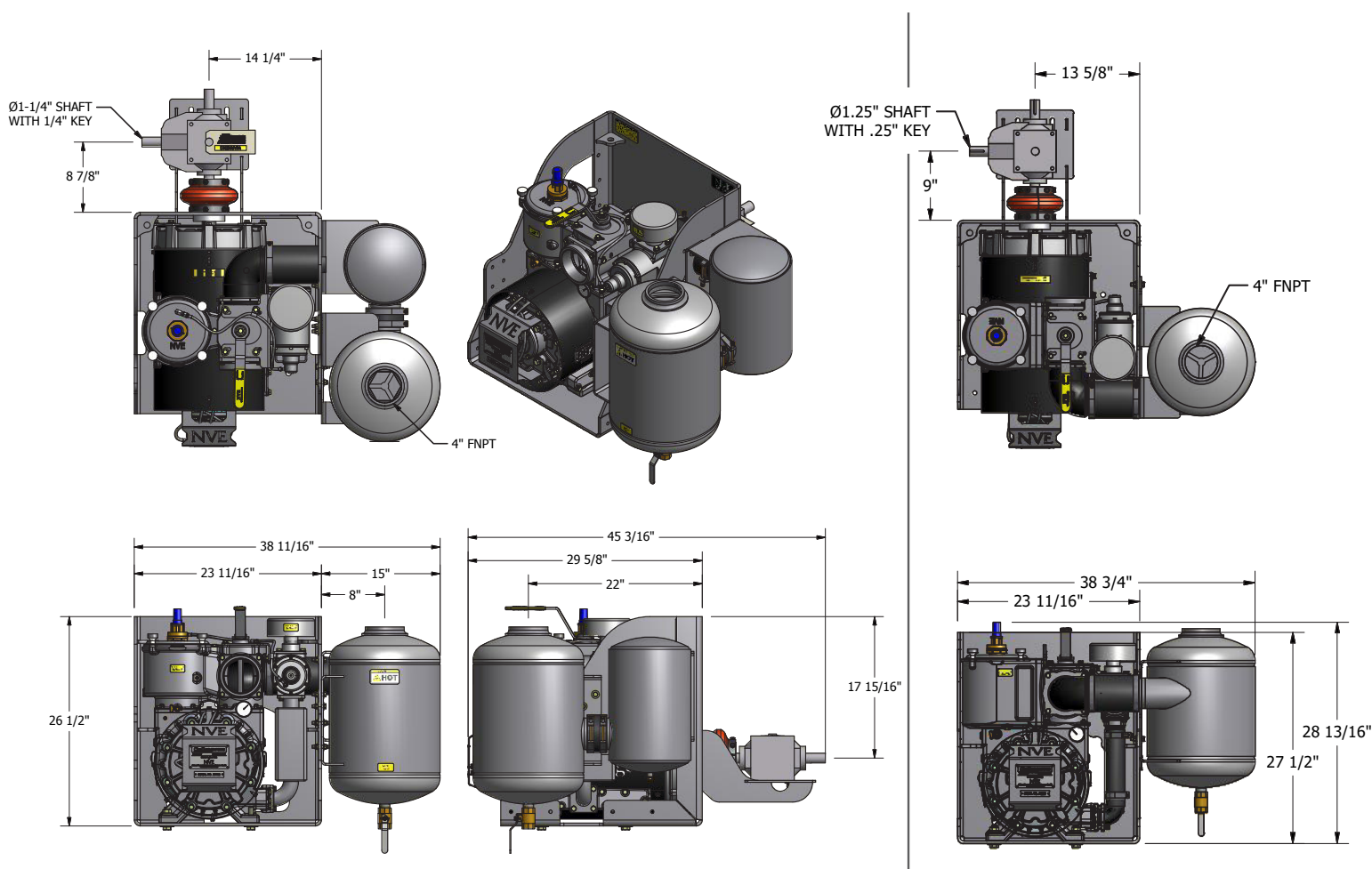
MADE IN THE USA

887 PRO Muffler Packages

Features

All features included in the Pump Stand Complete plus:

- Vacuum pump included; specify muffler location
- High-efficiency intake exhaust silencer
- 14" round oil catch muffler
- 1" Drain valve
- All elbows, fittings and high temp hoses are factory connected
- Designed, built, and supported in the USA



PRODUCT DESCRIPTION

887 PRO Fan Cooled Right Hand CW Muffler Package (Pictured Above - Left)

PART NUMBER

117-887P-MUF-FD

WEIGHT

971 lbs

887 PRO Fan Cooled Left Hand CCW Muffler Package

117-887P-MUF-FS

971 lbs

887 Right Hand CW Muffler Oil Field PKG W/O Silencer (Pictured Above - Right)

117-887-MUF-FD1

980 lbs

887 PRO Right Hand CW Muffler PKG W/Hydraulic Adapter Only

117-887P-MUF-FDH-A

945 lbs

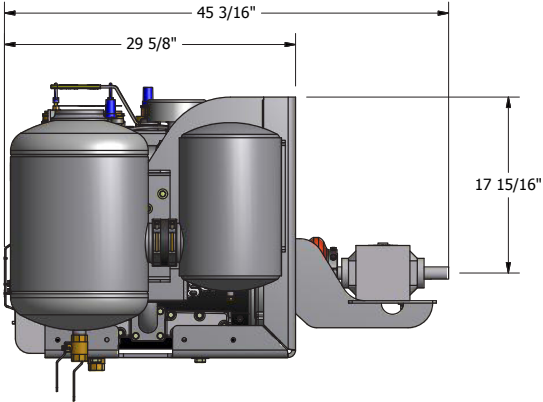
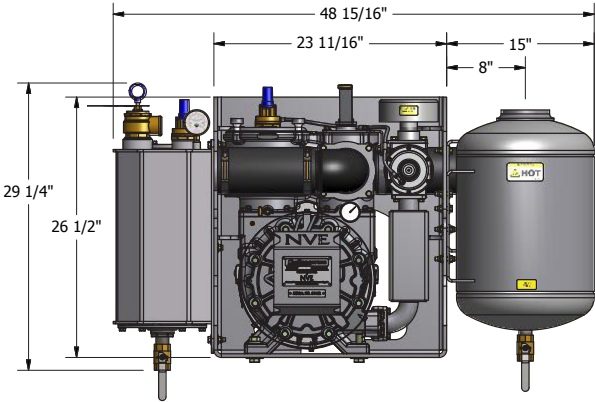
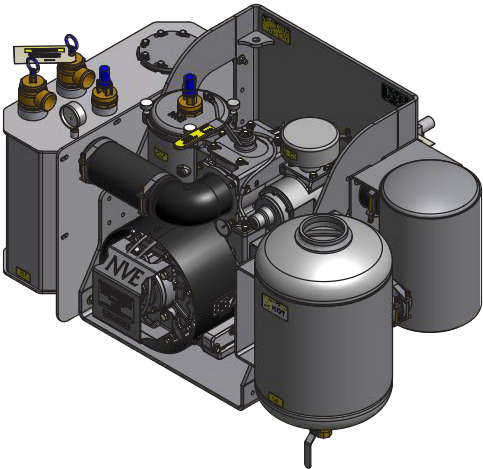
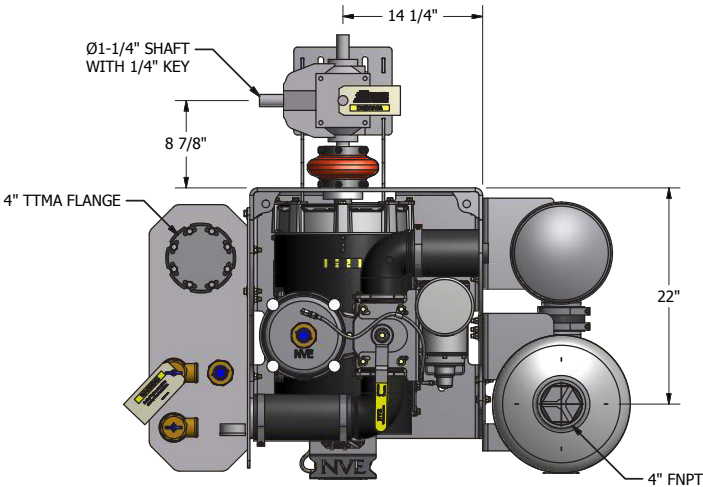
887 PRO Left Hand CCW Muffler PKG W/Hydraulic Adapter Only

117-887P-MUF-FSH-A

945 lbs

Features

- Vacuum pump included: specify the 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 (other fittings available)
- Vacuum/pressure relief valve and gauge
- All elbows, fittings and high temp hoses are factory connected
- Right-hand or left-hand muffler location available
- High-efficiency intake exhaust silencer
- Designed, built, and supported in the USA



PRODUCT DESCRIPTION	PART NUMBER	WEIGHT
887 PRO Fan Cooled Right Hand CW MAX PKG (Pictured Above)	117-887P-MAX-FD	1044 lbs
887 PRO Fan Cooled Left Hand CCW MAX PKG	117-887P-MAX-FS	1044 lbs

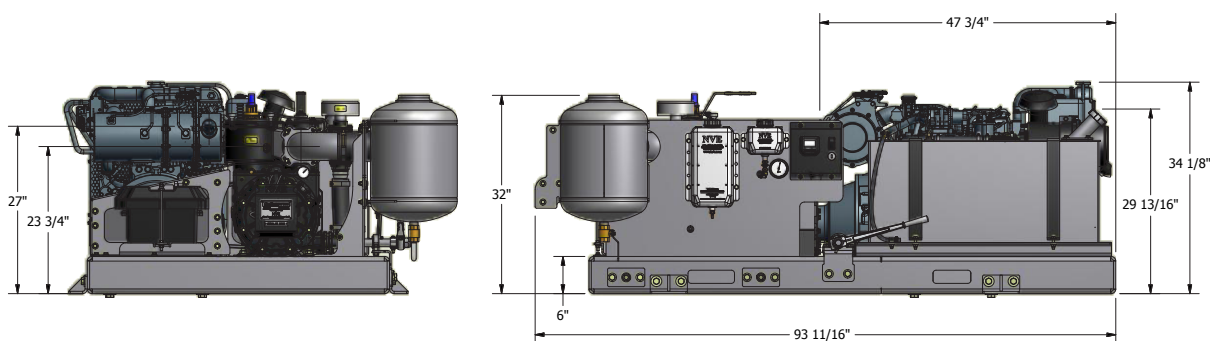
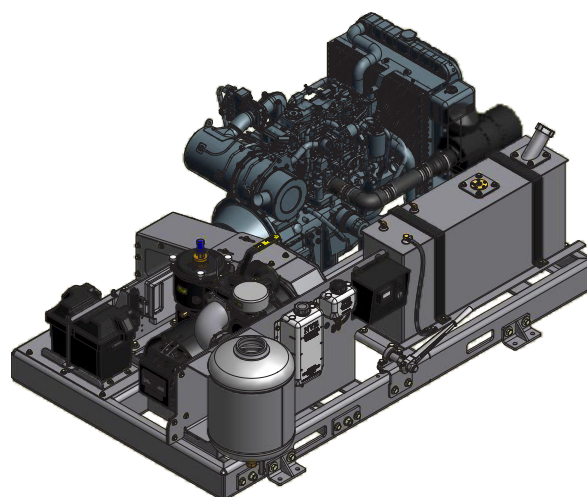
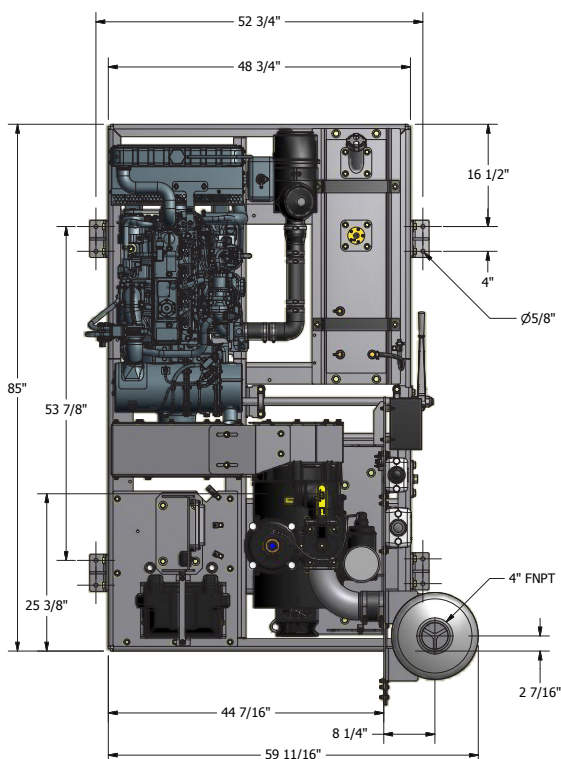


MADE IN THE USA

887 PRO Engine Drive

Features

- 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.
- Designed, built, and supported in the USA



PRODUCT DESCRIPTION

887 PRO Fan Cooled CCW Diesel Engine Drive

887 PRO Fan Cooled With 69.3 HP Yanmar Engine Drive With Auxiliary Drive

PART NUMBER

117-EDR-887P

117-EDR-887P-2

WEIGHT

2280 lbs

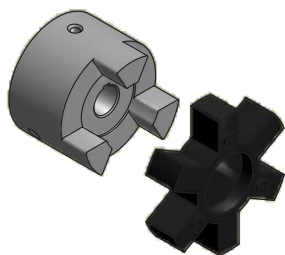
2280 lbs



PRODUCT DESCRIPTION	PART NUMBER	WEIGHT
Coupler Hub E20 1 1/4"	424-200-125	7.25 lbs
Coupler Hub E20 1 3/4"	424-200-175	7.25 lbs
Coupler Flex Element E20	424-200-E20	4.15 lbs



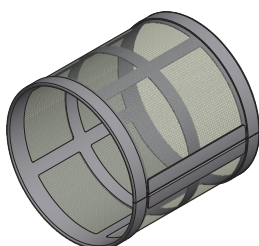
PRODUCT DESCRIPTION	PART NUMBER	WEIGHT
Hydraulic Adapter 887 PRO	120-400-006	17 lbs
- Easily convert from gear box drive to hydraulic drive with the use of this adapter.		



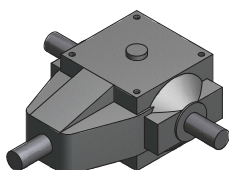
PRODUCT DESCRIPTION	PART NUMBER	WEIGHT
Coupler Flange L150 x 1 1/4" with 1/4" Keyway	424-150-125-HYD	5.10 lbs
Coupler Flange L150 x 1 3/4" with 3/8" Keyway	424-150-175	4.55 lbs
Coupler Spider L150 NBR	424-150-S	.20 lbs



PRODUCT DESCRIPTION	PART NUMBER	WEIGHT
4" Adjustable Elbow	150-063-014	1.50 lbs
O-Ring for Elbow	120-064-012	.01 lbs
Elbow 4" 90 Degree Alum Hose Barb X Hose Barb	803-063-001	2.00 lbs
Elbow 4" 90 Degree Aluminum Hose Barb X Oring	803-063-012	.69 lbs

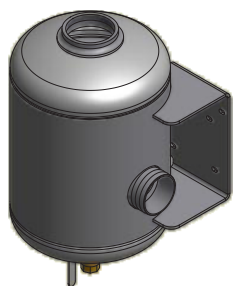


PRODUCT DESCRIPTION	PART NUMBER	WEIGHT
Inkate Filter Assembly PRO	120-314-005	1.25 lbs
Inkate Filter Assembly	120-314-003	1.4 lbs
Filter Element Remote Ballast	120-009-506-5	.30 lbs

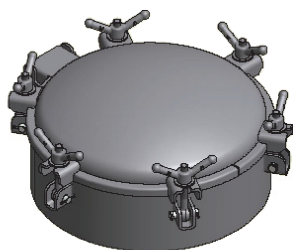


PRODUCT DESCRIPTION	PART NUMBER	WEIGHT
Gearbox	422-400-1	28.3 lbs
- 400 Series 1:1 - Mounting brackets available.		

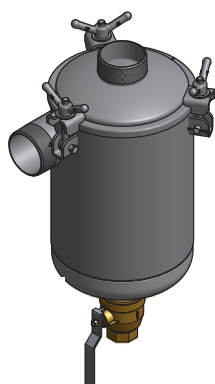
887 PRO Components & Accessories



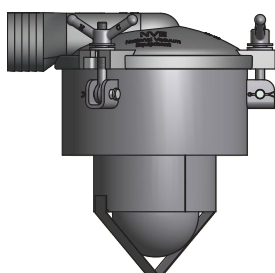
PRODUCT DESCRIPTION	PART NUMBER	WEIGHT
OCM 14" DIA 4" NPT W/HB RH	212-140-4NPT-2	95 lbs
OCM 14" DIA 4" NPT W/RESONATOR R55	212-140-4NPT-4	125 lbs
OCM 14" DIA 4" NPT W/RESONATOR LH	212-140-4NPT-5	-----



PRODUCT DESCRIPTION	PART NUMBER	WEIGHT
Manway 20" X 6" GOL	202-2006	72 lbs



PRODUCT DESCRIPTION	PART NUMBER	WEIGHT
14 Gal Moisture Trap Alu 4" NPT	216-140-4NPT-A	70 lbs
14 Gal Moisture Trap Carbon 4" NPT	216-140-4NPT-C	131 lbs
14 Gal Moisture Trap SS 4" NPT	216-140-4NPT-S	131 lbs



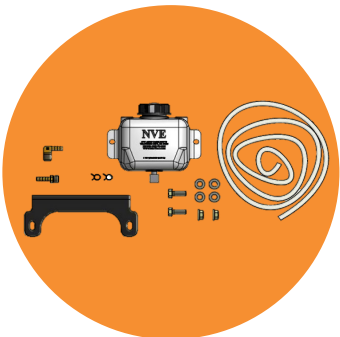
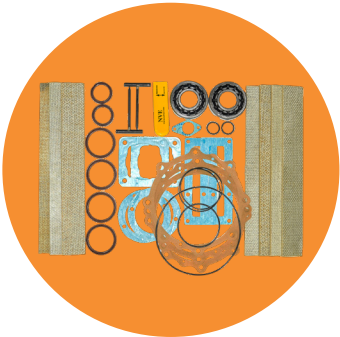
PRODUCT DESCRIPTION	PART NUMBER	WEIGHT
12" Primary Shutoff	200-1206-4HB	47 lbs



PRODUCT DESCRIPTION	PART NUMBER	WEIGHT
Remote Oil Tank	320-082-001	1.6 lbs
Remote Oil Tank Kit	320-081	2.30 lbs
Oil Tank Cap Black W/Tether	320-083-002	0.10 lbs

Features

- The NVE Challenger repair kits come with or without bearings and include the seals, gaskets, and vanes required for repair.
- The NVE Challenger flush kits come with all the required items to properly flush your Challenger vacuum pumps.
- The NVE Challenger Pump Oil is ISO 150; though this oil is not required, it is recommended to keep your vacuum pump lubricated properly, particularly in extreme conditions. Sold by the case, six (6) gallons per case.



PRODUCT DESCRIPTION	PART NUMBER	WEIGHT
Repair Kit	115-887-0	7 lbs
Repair Kit (without bearings)	115-887-0B	4 lbs
Flush Fluid Kit	320-081-002	2 lbs
Oil Vacuum Pump R&O ISO 150/SAE 40 ND Price per Gallon - 6 Gallons per Case	150-220-VPOIL-150	7 lbs

Notes

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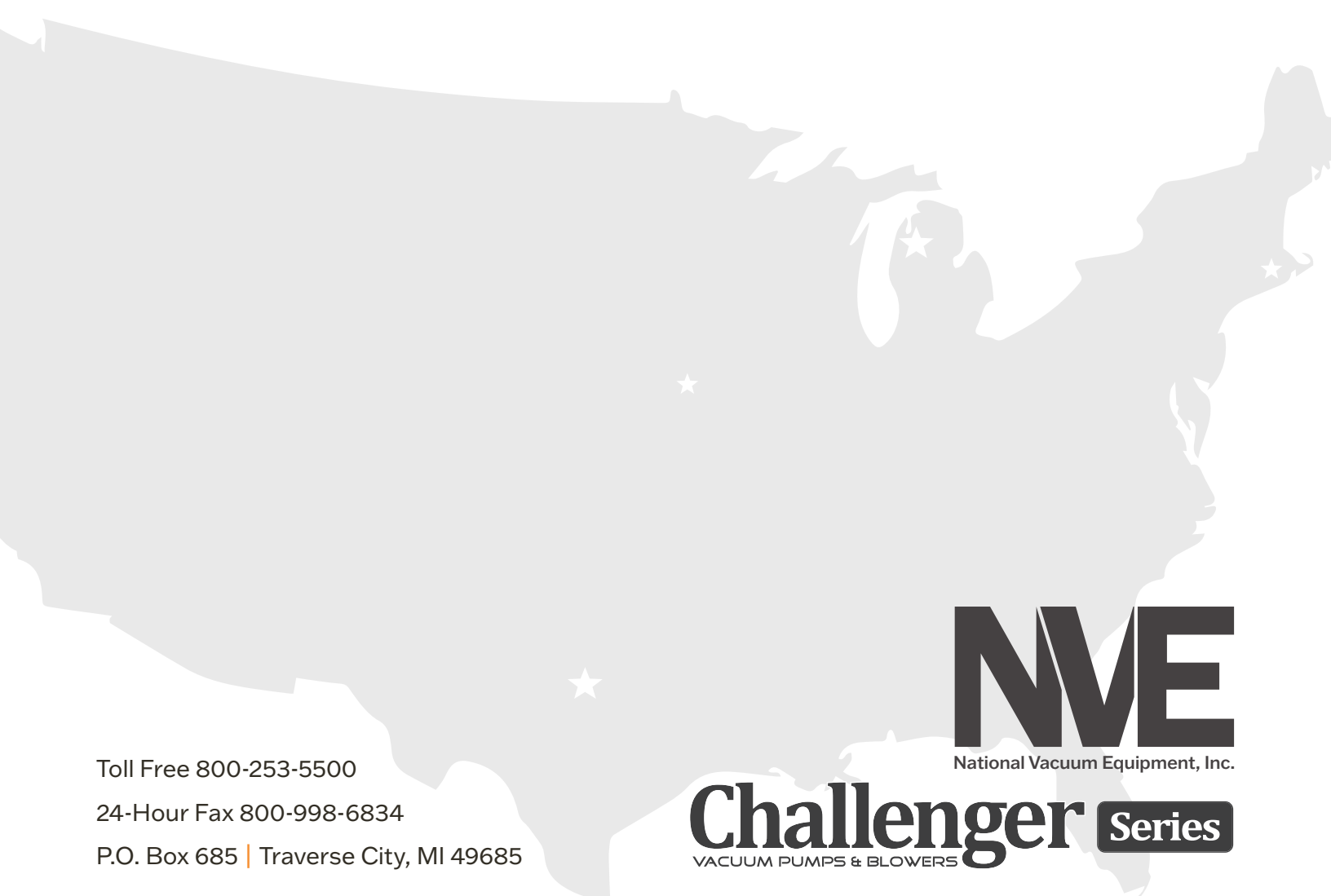
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NVE

National Vacuum Equipment, Inc.

Challenger

VACUUM PUMPS & BLOWERS

Series