BET Challenger PRODUCT CATALOG BUILT FOR HEAVY-DUTY PERFORMANCE





Exclusive Manufacturer

Challenger Series



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hallenger Series

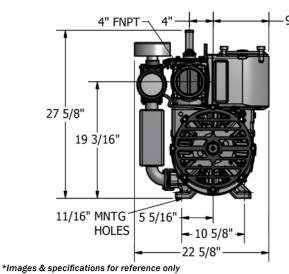
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887 HEAVY DUTY VACUUM PUMP FEATURES

- 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 through the filter

- · 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 CHALLENGER S	PECIFICATIO	ONS
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"	
APPROXIMATE WEIGHT	631 lbs	



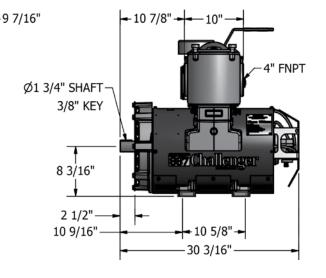
Please see set up & operation guide for operating parameters.

PRODUCT DESCRIPTION	PART NUMBER	WEIGHT (estimated)	MSRP
Challenger 887 CW Fan Cooled	103-887-FD	663 lbs	\$5,460.00
Challenger 887 CCW Fan Cooled	103-887-FS	663 lbs	\$5,460.00

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887 Hydraulic Motor Drive

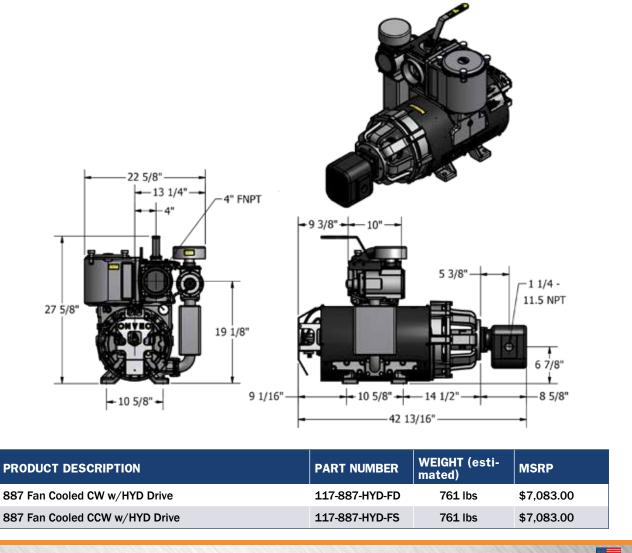
FEATURES

- Heavy-duty automatic alignment bracket
- SAE B face 2 and 4 bolt flange

- Coupler set
- Designed, built, and supported in the USA

HYDRAULIC MOTOR SPECS

- Mount = SAE 4 BOLT "B" FLANGE
- Shaft = 1.25" with 5/16" Keyway
- Side Ports = 1.25:" NPT
- Cubic Inch Displacement = 8.088^3/REV
- Max working pressure = 2500 psi
- Hydraulic pump should supply 46-48 gpm @ 2000 psi to turn the 887 at 1200 rpm
- Customer must install a case drain and plumb back to tank



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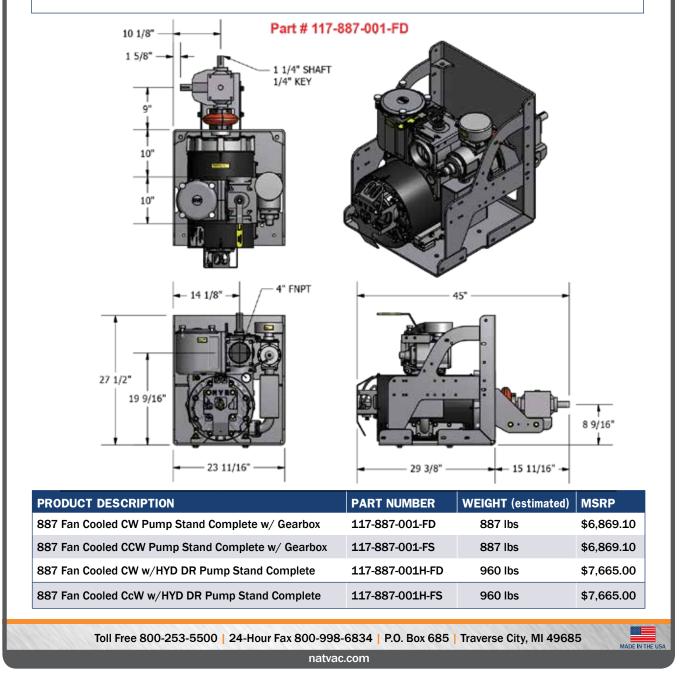
hallenger Series

887 Pump Stand Complete Packages

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FEATURES

- Vacuum pump included; specify rotation
- Rugged 3/8" construction, powder coat painted, pump stand
- 400 series three-shaft gearbox accommodates clockwise and counterclockwise rotation
- Coupler set with shear protection
- Easy-align, adjustable gearbox bracket
- Also available with hydraulic drive
- Designed, built, and supported in the USA





Exclusive Manufacturer Challenger Series VACUUM PUMPS & BLOWERS

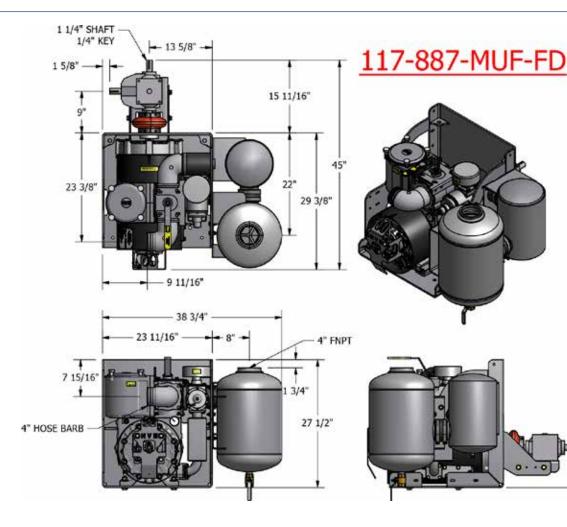
887 Muffler Packages

FEATURES

All features included in the Pump Stand Complete plus:

- Vacuum pump included; specify muffler location
- 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	PART NUMBER	WEIGHT (estimated)	MSRP
887 Fan Cooled Right Hand CW Muffler Package	117-887-MUF-FD	992 lbs	\$7,402.00
887 Fan Cooled Left Hand CCW Muffler Package	117-887-MUF-FS	992 lbs	\$7,402.00
887 Fan Cooled Right Hand CW w/Hydraulic Drive Muffler PKG	117-887-MUF-FDH	1073 lbs	\$8,200.00
887 Fan Cooled Left Hand CCW w/Hydraulic Drive Muffler PKG	117-887-MUF-FSH	1073 lbs	\$8,200.00

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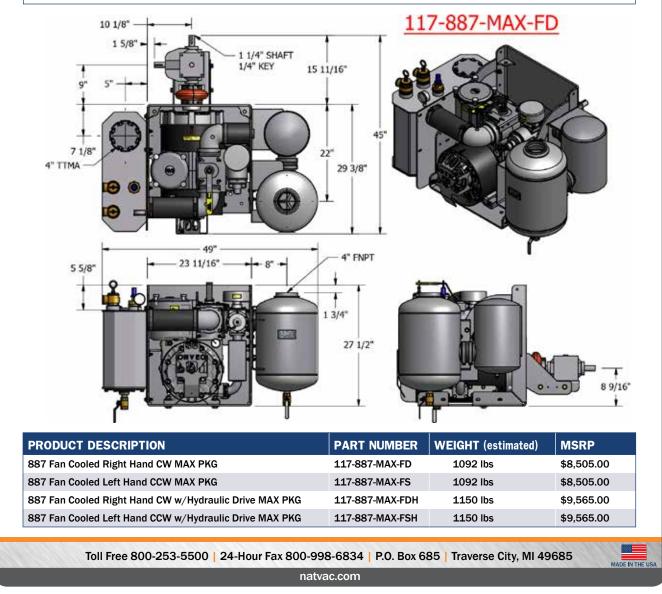
887 Max Packages

FEATURES

All features included in the Pump Stand Complete plus:

- Vacuum pump included: specify 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
- · Stainless steel mesh filter
- 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





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887 Components & Accessories

A COMPANY	PRODUCT DESCRIPTION	PART NUMBER	WEIGHT	MSRP
	Coupler Hub E20 1 1/4"	424-200-125	7.25 lbs	\$46.00
	Coupler Hub E20 1 3/4"	424-200-175	7.25 lbs	\$46.00
	Coupler Flex Element E20	424-200-E20	4.15 lbs	\$120.00
The second p	PRODUCT DESCRIPTION	PART NUMBER	WEIGHT	MSRP
a rea	Gearbox 400 Series 1:1 Ratio with 1 1/4" shaft	422-400-1	28.30 lbs	\$425.00
Juli III.				
	PRODUCT DESCRIPTION Hydraulic Adapter	PART NUMBER 120-400-001	WEIGHT 17 lbs	MSRP \$190.00
19. T	PRODUCT DESCRIPTION	PART NUMBER	WEIGHT	MSRP
	Hydraulic Motor for 887	440-2500-001	100 lbs	\$1250.00
	PRODUCT DESCRIPTION	PART NUMBER	WEIGHT	MSRP
*0	PRODUCT DESCRIPTION Coupler Flange L150 x 1 1/4" with 1/4" Keyway Coupler Flange L150 x 1 3/4" with 3/8" Keyway Coupler Spider L150 NBR	PART NUMBER 424-150-125-HYD 424-150-175 424-150-S	WEIGHT 5.10 lbs 4.55 lbs .20 lbs	MSRP \$35.00 \$45.26 \$25.00
	Coupler Flange L150 x 1 1/4" with 1/4" Keyway Coupler Flange L150 x 1 3/4" with 3/8" Keyway Coupler Spider L150 NBR	424-150-125-HYD 424-150-175 424-150-S	5.10 lbs 4.55 lbs .20 lbs	\$35.00 \$45.26 \$25.00
	Coupler Flange L150 x 1 1/4" with 1/4" Keyway Coupler Flange L150 x 1 3/4" with 3/8" Keyway	424-150-125-HYD 424-150-175	5.10 lbs 4.55 lbs	\$35.00 \$45.26 \$25.00 MSRP
	Coupler Flange L150 x 1 1/4" with 1/4" Keyway Coupler Flange L150 x 1 3/4" with 3/8" Keyway Coupler Spider L150 NBR PRODUCT DESCRIPTION Relief Manifold 4" Kit	424-150-125-HYD 424-150-175 424-150-S PART NUMBER 406-301-4-KIT	5.10 lbs 4.55 lbs .20 lbs WEIGHT 8.50 lbs	\$35.00 \$45.26 \$25.00 MSRP \$291.28
	Coupler Flange L150 x 1 1/4" with 1/4" Keyway Coupler Flange L150 x 1 3/4" with 3/8" Keyway Coupler Spider L150 NBR PRODUCT DESCRIPTION Relief Manifold 4" Kit PRODUCT DESCRIPTION	424-150-125-HYD 424-150-175 424-150-S PART NUMBER 406-301-4-KIT PART NUMBER	5.10 lbs 4.55 lbs .20 lbs WEIGHT 8.50 lbs	\$35.00 \$45.26 \$25.00 MSRP \$291.28
	Coupler Flange L150 x 1 1/4" with 1/4" Keyway Coupler Flange L150 x 1 3/4" with 3/8" Keyway Coupler Spider L150 NBR PRODUCT DESCRIPTION Relief Manifold 4" Kit PRODUCT DESCRIPTION Flange 4" Adjustable Elbow	424-150-125-HYD 424-150-175 424-150-S PART NUMBER 406-301-4-KIT PART NUMBER 150-063-014	5.10 lbs 4.55 lbs .20 lbs WEIGHT 8.50 lbs WEIGHT 1.50 lbs	\$35.00 \$45.26 \$25.00 MSRP \$291.28 MSRP \$8.00
	Coupler Flange L150 x 1 1/4" with 1/4" Keyway Coupler Flange L150 x 1 3/4" with 3/8" Keyway Coupler Spider L150 NBR PRODUCT DESCRIPTION Relief Manifold 4" Kit PRODUCT DESCRIPTION	424-150-125-HYD 424-150-175 424-150-S PART NUMBER 406-301-4-KIT PART NUMBER	5.10 lbs 4.55 lbs .20 lbs WEIGHT 8.50 lbs	\$35.00 \$45.26 \$25.00 MSRP \$291.28

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887 Maintenance Items



PRODUCT DESCRIPTION	PART NUMBER	WEIGHT	MSRP
Essential Black Box - Pump Tool Kit	120-0T15	20 lbs	\$698.00
The Essential Black Box is a complete pump the Challenger vacuum pump. It comes with:		easier to reb	uild
 Heavy Duty Carrying Case Vacuum/Pressure Testing Gauge Reamer Infrared Thermometer Laser Tachometer 607 PRO, 866 & 887 Seal Drivers with Handles 	 (4) T-Handles Coupler Alignme 607 PRO & 866 (2) Shims and the owner's manual 	Shaft Align 1e 607 PRO,	
PRODUCT DESCRIPTION	PART NUMBER	WEIGHT	MSRP

The Tool kit makes it easier to rebuild the Challenger vacuum pumps and comes with:

Seal driverReamer

Tool Kit for 887

- (2) T-Handles
- (2) shims

0 lbs

\$0

PRODUCT DESCRIPTION	PART NUMBER	WEIGHT	MSRP
Repair Kit 887	115-887-0	11.60 lbs	\$1102.00
Repair Kit 887 (without bearings)	115-887-0B	6.60 lbs	\$1007.00

The NVE Challenger repair kits come with or without bearings and include the seals, gaskets, and vanes required for repair.

PRODUCT DESCRIPTION	PART NUMBER	WEIGHT	MSRP
Diesel Flush Kit	320-081-002	2 lbs	\$86.22

The NVE Challenger flush kits come with all the required items to properly flush your Challenger vacuum pumps.

PRODUCT DESCRIPTION	PART NUMBER	WEIGHT	MSRP
Oil Vacuum Pump R&0 ISO 68	150-220-VPOIL	7.35 lbs	\$21.39

The NVE Challenger Pump Oil is ISO 68; 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.

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We Are NVE

We Design, Build and Service the Best Pumps and Blowers on the Planet...



Our products are known for being reliable, economical and tough as nails. We produce the Challenger Series Rotary Vane Vacuum Pumps and High Vacuum Tri-Lobe Blowers. We embody the spirit of American manufacturing and innovation. We design, build, support and ship our products from our state-of-the-art 120,000 square foot manufacturing facility in Traverse City, Michigan. We also have a warehouse and service location in Texas.

Any issues or questions will be fielded by trained professionals within the United States. We are always close by and happy to accommodate your needs.

After 30 years, we're just getting started...

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