



Vacuum Pumps & Parts

Truck Center of Fort Worth, Inc.

2901 North Freeway

Fort Worth, TX. 76106

RCF500 Rotary Vane Vacuum Pump



RCF500 Specifications

| | |
|--------------------------------|-----------|
| Approximate Air Flow | 320 CFM |
| Maximum Vacuum | 28.5" Hg |
| Power Required @ 27" Hg | 23 BHP |
| Pressures to | 35 PSI |
| Power required @ Max. Pressure | 44 BHP |
| Size of Hoses | 3" |
| Maximum Operating Speed | 1400 RPM |
| Lubrication (Oil Pump) | Automatic |
| Vanes | 8 (Fibre) |
| Fan cooling continuous duty | Yes |
| Approx. net Pump weight | 450 LBS |

The Fruitland Model RCF500 Commercial-Duty Rotary Vane Vacuum Pump is designed to work in all types of liquid waste handling markets including the Oil and Gas Refracting Industry, Environmental, Grease, and septic. Fruitland's Vacuum Pumps operating environments include temperatures varying from sub-zero to well above 100 degrees. The famous 500 Series Vacuum Pump is primarily installed on liquid Vacuum Tank Trucks ranging in size from 1000-12000 gallons. The 500 Series Vacuum Pump features a Heavy-Duty Lubrication System that is designed to allow over 16 operating hours per one gallon of oil (that's twice the operating hours of our competition). The 500 Series includes an integral one gallon oil reservoir tank which houses a heavy duty positive displacement pump. The positive displacement pump strategically pumps oil through four steel lines (as opposed to plastic) into the main body of the Vacuum Pump. The 500 Series Vacuum Pump also boasts an integral Air In-Take Filter designed to protect the Vacuum Pump in both , vacuum and pressure modes. The Air-Cooled design features a heavy-duty fan located on the drive end of the pump. When the Vacuum Pump is in operation, the fan rotates to help keep the pump cool. All Vacuum Pumps include a 4-way valve (Upper or Side Mount) allowing the operator to easily make a change from one mode (Vacuum/Pressure) to the other. Additional design features include: Vane Test Gauging Ports, Hand tightened Vented Breather Cap, Housing Drain, and 8 Vane Design for low washboard. The 500 Series Vacuum Pumps are designed to be converted into many drive styles including, Belt, Right-Angle, and Hydraulic Drive.

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Popular Replacement Parts



| | |
|--------------------|--|
| ELIMA-M | Eliminator Kit w/ Muffler |
| ELIM-TB | Eliminator Kit Top Mount Belt Drive |
| RCF500-LSFH | Vacuum Pump LH Side Filter Hydraulic |
| RCF500-LUF | Vacuum Pump LH Upper Filter |
| RCF500-LUFA | Vacuum Pump LH Upper Filter Angle Drive |
| RCF500-LUFH | Vacuum Pump LH Upper Filter Hydraulic |
| RCF500-RUF | Vacuum Pump H Upper Filter |
| R500-BH | Bell Housing |
| RF500-GR | Guard Ring |
| 500-ADA-2 | Gear Box Mount Bracket |
| Rf500-34N | Fan Shroud |
| RF500-30 | Fan Guard |
| RF500-MP | Hydraulic Mount Bracket |
| RF500-KIT | Rebuild Kit |
| RF500-19A | Bearing |
| RF500-29 | Oil Pump Bi-Directional |
| RF500-23 | Oil Pump Cover |
| RF500-26 | Oil Pump Cover Gasket |

Scan QR Code To View RCF500 Parts Breakdown

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Popular Replacement Parts



| | |
|-------------|-----------------------|
| RF500-190 | Breather Filler Cap |
| RF250-3 | End Plate |
| RF500-140 | Gasket End Plate |
| RF500-33R/L | Fan |
| RF500-11 | Diverter Housing |
| RF500-FC | Filter |
| RF500-FL | Filter Box Lid |
| RF500-04 | Filter Box Log O-Ring |
| RF500-F00 | T-Bolt |
| RF500-F01 | Copper Washer, T-Bolt |
| RF500-9 | Housing Base |
| RF500-1 | RF500 Housing |
| F190-1000 | 1" Coupler |
| F190-1250 | 1 1/4" Coupler |
| F190-1500 | 1 1/2" Coupler |
| F190-42MM | 42mm Coupler |
| F190-INS | F190 Insert |



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Auxiliary Oil Reservoir Kit P/N OR11

More than double the oil capacity of the reservoir provided on the pump, consider purchasing Fruitland's Auxiliary Oil Reservoir Kit. Available for for all models of Fruitland Vacuum Pumps, it holds up to 6 Quarts of Oil.

[Click Here to download Specs](#)

Each Auxiliary Oil Reservoir kit contains:

- 6 QT plastic tank with breather cap
- Fuel line rubber hose (10FT)
- Adapter with Barb Fittings
- Hose Clamps



Scan QR Code To View Parts Kit Breakdown



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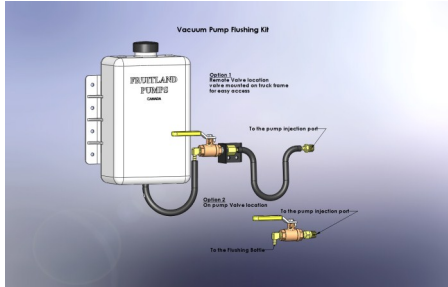


Oil Flushing Kit P/N FK500

To extend the life of your Fruitland Vacuum Pump and make your Pump run at optimum capacity, Fruitland recommends flushing your pump every 2 months. To assist with this procedure, we offer the Fruitland Oil Flushing Kit.

Each Oil Flushing Kit Contains:

- 6 QT. Plastic Tank with Breather Cap
- Fuel line Rubber Hose, 1/4" ID. 10 ft.
- Hose Clamps
- Brass Fittings 1/4" NPT, barbed
- Steel Bracket
- Ball Valve



Scan QR Code To View Fruitland's Pump Flushing Procedure

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NVE 607 Challenger Series - Fan Cooled or Liquid Cooled

Our Challenger Series pumps are designed and built with the customer in mind – resulting in dependable, high performing pumps that are easy to install, operate and service. As the only industrial grade rotary vane vacuum pump designed, built and supported in the USA we are committed to also being the best pump period. Therefore each Challenger series vacuum pump features:

- Superior cooling for extended operations in severe conditions.
- Proven crash protection allowing all major components to survive a catastrophic failure.
- Oversized heavy duty roller bearings allowing more drive options.
- Precision pinned endplates for exact reassembly alignment.
- High strength castings poured in the USA.
- High temp Teflon oil lines allowing visual oil flow inspection.
- Remote mount 5 quart see through oil tank for constant oil level monitoring.
- Four point automatic lubrication system.
- Liquid or fan cooled versions of each model.
- Multiple drive options (gearbox, belt, hydraulic, direct).
- Integral, easily accessible final filter.
- Vane flush port with valve.
- Vane wear inspection port.
- Thermometer to monitor exhaust temperature.
- Vacuum/pressure change over valve.
- Flanged vacuum/pressure ports.
- Available in right hand or left hand rotation.
- Built in one way flow valve eliminates back spin.

NVE
National Vacuum Equipment, Inc.



607 Challenger Specifications

Porting Size Flanged NPT 3"

Maximum Air Flow-CFM 357

Maximum Intermittent Vacuum 28" hg

Maximum Intermittent Pressure 30 psi

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Popular Replacement Parts

| | |
|---------------|--------------------------|
| 116-607-MUF-D | Muffler Pak |
| 116-367-TM-D | Top Mount Belt Drive Kit |
| 100-607-FD | Pump 607 CW Fan Cooled |
| 100-607-FS | Pump 607 CCW Fan Cooled |
| 100-607A-FS | Pump 607 CCW Side Valve |
| 115-607-0B | Rebuild Kit |
| 120-019-367 | Bearing |
| 116-GBB | Gear Box Mount Bracket |
| 120-400-001 | Hydraulic Mount Bracket |
| 120-073 | Fan Guard |

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| | |
|-----------------|------------------|
| 120-083-002/001 | Fan CW/CCW |
| 120-003-002/003 | End Plate CW/CCW |
| 120-004-367 | End Plate Gasket |
| 120-314-001 | Filter |
| 320-LW32-AD/S | Oil Pump CW/CCW |
| 120-220 | Thermostat |
| 120-001-367 | Housing |
| 120-010 | Oil Fill Pug |
| 320-082-001 | Oil Tank |
| 320-083-002 | Oil Tank Lid |

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Miscellaneous Parts

2026-0000

4" DI Butterfly Valve SST Steam

2028-0000

6" DI Butterfly Valve SST Steam

2029-0000

8" DI Butterfly Valve SS Steam

B0250FB BBV

1/4" Full Port Brass Ball Valve

B0375FPBBV

3/8" Full Port Brass Ball Valve

B0500FPBBV

1/2" Full Port Brass Ball Valve

B0750FPBBV

3/4" Full Port Brass Ball Valve

B1000FPBBV

1" Full Port Brass Ball Valve

B2000FPBBV

2" Full Port Brass Ball Valve

364-306-2

2" Brass Pressure Valve

366-150

1 1/2" Brass Vacuum Relief Valve

282-800-1S

8" SST Float Ball Cage

414-600-SS

6" SST Float Ball

408-250-LF

2 1/2" Liquid Filled Pressure Gauge

1025-0001

4" Liquid Filled Pressure Gauge

Additional Products Available. Please Call Our Parts Department For Info.



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Miscellaneous Parts

212-120-3NPT-2

1071-0000

OFV300

422-400-1

286-706-20L

286-706-21L

1010-0002

110-0100

MTN9S100

MTN9S104

MTN9S106

MTN9S108

DG9JEM

12" x 19.25" Aux. Oil Catch Muffler

3" Vacuum Hose Clamp

3" Vacuum Hose

400SR Gear Box 1:1 Ratio

20" Man Way Gasket

21" Man Way Gasket

Wing Nut Asy. Greaseable

Wing Nut Asy. Standard

1" Flange Coupler

1 1/4" Flange Coupler

1 3/8" Flange Coupler

1 1/2" Flange Coupler

9J Flex Coupler

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Aluminum & Ductile Iron Cam Fittings

We stock a large selection of Aluminum and Ductile Iron cam fittings, gaskets, hose and clamps.

Ask for our American made products or we also offer an economy import line.

Call our parts department for product pricing and availability.



ecgoods.com

www.fortworthtruck.com

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