Lubrication Filtration Systems
Lube Oil, Hydraulic Fluid, Transmission Fluid, and Fluid Conditioning Monitors
Table Of Contents

**Racor Absolute Bypass Oil Cleaners** .................. 3-6
  - Bypass Oil Cleaning System ........................ 3
  - Light Duty Systems .................................. 4
  - Bypass Filtration Kits ................................ 5
  - High Volume Systems .................................. 6

**Engine Lube Oil Filtration** ............................. 7-14
  - Solutions For OEM’s ................................. 8-9
  - Testing Capabilities ................................ 10-11
  - Filtration Media ...................................... 12-13
  - Application/Filter Kits ............................... 14

**Transmission Filtration** ................................. 15

**Hydraulic Filtration** .................................... 16-17
  - Water Absorbing Filters .............................. 16
  - Fluid Transfer ........................................ 17

**Racor Capabilities** ........................................ 18-19

**PFG Manufacturing Contacts** ........................... 20

Absolutely.
Clean Oil.

Parker Hannifin Corporation
Racor Division
3400 Finch Road
Modesto, CA 95353
phone 800 344 3286
fax 209 529 3278
www.parker.com/racor
Racor Absolute Series
Unique Bypass Oil Cleaning System

The Racor Absolute Series bypass oil cleaners were developed to increase the life span of engine oil by reducing the contaminants in the oil resulting in longer full flow filter life and lower maintenance costs. Standard engine oil change intervals are in place based on the capacity (life) of the oil filter and the condition of the engine oil. With the Racor Absolute Series bypass oil cleaner installed, the engine oil stays many times cleaner, for a longer period of time.

The Absolute Filter

The Absolute replacement filter element is the heart of the Absolute bypass filtration system. Made from a special cellulose material wound onto a central core, it combines micro and depth filtration by using the axial filtration principle (flow direction from the top to the bottom).

This filter design forces the oil to flow through 114 mm of filtration media and to pass through 3 stages of different densities. The larger particles are retained on the top of the filter (1), (a very good diagnostic tool) smaller particles are trapped in the next stage (2), and the smallest particles are trapped in the lower compressed part of the filter (3). This progressive removal of particles result in a very high dirt absorption capacity.

Additionally the cellulose material allows water absorption of up to 200 ml in the filter. The most remarkable and noticeable feature of the Racor Bypass filter is it’s ability to remove resins and oxidation products.

The resin removal results from a combination of a special cellulose material with a long flow distance (114 mm) through the filter.

This combination of 3 features and the high level of efficiency makes the Racor Absolute series a unique oil cleaner, not just a filter, worldwide.

See Brochure 7815 for more information.
Racor Absolute Series
Unique Bypass Oil Cleaning System

Light Duty Single Unit Bypass Systems

These Light duty filtration units are designed to efficiently and cost effectively clean smaller volumes of lubrication fluids. Effectively removing wear particles, moisture, and sludge in smaller engine applications.

Racor Bypass Oil Filtration

For many years Racor has sold the LFS 800, LFS 801, and LFS 802 bypass oil filters with their string wound filters that capture moisture and engine damaging contaminants.

Unfortunately, the LFS 800 series housings are no longer sold. These heavy-duty housings are dependable and designed for long life with many units still in service. Racor will maintain replacement filters to service our valuable customers.

The chart shows the replacement filters for the respective LFS 800 series housings as well as the complete superseded part number which in many cases can replace the LFS 801 and LFS 802 series housings with minimal effort.

<table>
<thead>
<tr>
<th>Specifications</th>
<th>ABS10300</th>
<th>ABS10450</th>
</tr>
</thead>
<tbody>
<tr>
<td>Working Pressure</td>
<td>72.5 PSI (5 bar)</td>
<td>72.5 PSI (5 bar)</td>
</tr>
<tr>
<td>Application Capacity</td>
<td>30 qts (28 L)</td>
<td>50 qts (47 L)</td>
</tr>
<tr>
<td>Port Size (inlet/outlet)</td>
<td>1/4” NPT</td>
<td>1/4” NPT</td>
</tr>
<tr>
<td>Dimensions</td>
<td>W6.38 x D6.54 x H12.48 in. (W162 x D166 x H317 mm)</td>
<td>W8.03 x D8.11 x H12.64 in. (W204 x D206 x H321 mm)</td>
</tr>
<tr>
<td>Weight</td>
<td>8 lbs (3.5 kg)</td>
<td>12 lbs (5.5 kg)</td>
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Absolute Replacement Parts List

<table>
<thead>
<tr>
<th>Model</th>
<th>ABS10300</th>
<th>ABS10450</th>
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<tbody>
<tr>
<td>Seal Service Kit</td>
<td>ABS44235</td>
<td>ABS44250</td>
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Absolute Replacement Filters

<table>
<thead>
<tr>
<th>ABS10300</th>
<th>3 micron filter</th>
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<tr>
<td>ABS20330</td>
<td>3 micron filter</td>
</tr>
<tr>
<td>ABS20370</td>
<td>5 micron filter</td>
</tr>
<tr>
<td>ABS25350</td>
<td>10 micron filter</td>
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</table>

<table>
<thead>
<tr>
<th>ABS10450</th>
<th>3 micron filter</th>
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</thead>
<tbody>
<tr>
<td>ABS20430</td>
<td>3 micron filter</td>
</tr>
<tr>
<td>ABS20470</td>
<td>5 micron filter</td>
</tr>
<tr>
<td>ABS25450</td>
<td>10 micron filter</td>
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</table>

LFS Replacement Filters

<table>
<thead>
<tr>
<th>LFS 800 Assembly</th>
<th>LFS 800 Replacement Filter</th>
<th>Superseded Absolute Assembly</th>
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</thead>
<tbody>
<tr>
<td>LFS 801</td>
<td>LFS 801BPE</td>
<td>ABS10300</td>
</tr>
<tr>
<td>LFS 802</td>
<td>LFS 802BPE</td>
<td>ABS10450</td>
</tr>
</tbody>
</table>

Stop. Contain. Reduce.
Remote Bypass Oil Filter Kits

The Absolute bypass oil filter kits come complete with UL rated Parker hose, adapters, and high quality Parker fittings for specific light-duty truck applications. The filter is designed as a top load filter but can be mounted at any angle using the supplied heavy-duty mounting bracket. Oil is taken from the engine by means of the Parker fittings and unique billet machined anodized components, which are included. The clean oil is returned to the crankcase by a billet machined anodized filler cap or drain plug adapter, which is supplied in each bypass kit specified below. The Absolute bypass kit includes a 3 micron filter installed in the housing. Racor also offers optional 5 micron (ABS20370) and 10 micron (ABS25350) replacement filters, available through your local distributor.

Benefits of installing one of these kits include:

- Extended oil change intervals.
- Reduced maintenance cost.
- Reduced engine wear.
- Superior Absolute filtration.
- Rugged design.
- Will not void engine warranty.

Bypass Kit Application Chart

<table>
<thead>
<tr>
<th>Kit Number</th>
<th>Application</th>
<th>Year Model</th>
<th>Bypass Filter</th>
<th>Replacement Filters</th>
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</thead>
<tbody>
<tr>
<td>ABSRK10359CEA</td>
<td>Dodge/Cummins 5.9L</td>
<td>1993 to 2002</td>
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<td></td>
</tr>
<tr>
<td>ABSRK10359CEB</td>
<td>Dodge/Cummins 5.9L</td>
<td>1994 to 2001</td>
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<td></td>
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<tr>
<td>ABSRK10359CL</td>
<td>Dodge/Cummins 5.9L 24 Valve Engine</td>
<td>1998 1/2 to Current</td>
<td></td>
<td>ABS10300 (3 micron), or ABS20330 (3 micron), or ABS20370 (5 micron), or ABS25350 (10 micron)</td>
</tr>
<tr>
<td>ABSRK10366G</td>
<td>GM Duramax 6.6L</td>
<td>All Models</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ABSRK10360F</td>
<td>Ford 6.0L/6.4L</td>
<td>2003 to Current</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ABSRK10360FE</td>
<td>Ford Econoline Van 6.0L</td>
<td>2003 - Current</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ABSRK10373F</td>
<td>Ford 7.3L DI and IDI Engines</td>
<td>1987 to 2003</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1 Comes with 18MM x 1.5 plug with 18”-27 NPT port.
2 Comes with 22MM x 1.5 plug with 18”-27 NPT port.

See Brochure 7637 for more information.
These high capacity filtration units are designed to efficiently and cost effectively clean large volumes of lubrication fluids. It combines Racor’s unique depth loading filter for removal of wear particles, moisture, and sludge in large engine applications.

### High Volume

<table>
<thead>
<tr>
<th>Specifications</th>
<th>ABS11200</th>
<th>ABS1300</th>
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<tbody>
<tr>
<td>Housing Material</td>
<td>Stainless Steel</td>
<td>Stainless Steel</td>
</tr>
<tr>
<td>Application Capacity</td>
<td>100 qt (94.6 L)</td>
<td>150 qt (142.0 L)</td>
</tr>
<tr>
<td>Port Size</td>
<td>1/2” NPTF</td>
<td>1/2” NPT</td>
</tr>
<tr>
<td>Working Pressure</td>
<td>73 PSI (5 bar)</td>
<td>73 PSI (5 bar)</td>
</tr>
<tr>
<td>Dimensions</td>
<td>W9.3 x D10.6 x H16.1 in. (W236 x D269 x H412 mm)</td>
<td>W9.3 x D10.6 x H30.0 in. (W236 x D269 x H762 mm)</td>
</tr>
<tr>
<td>Replacement Filters</td>
<td>(use two) ABS20430 (3 micron), ABS20470 (5 micron), ABS25450 (10 micron)</td>
<td>(use three) ABS20430 (3 micron), ABS20470 (5 micron), ABS25450 (10 micron)</td>
</tr>
<tr>
<td>Weight</td>
<td>22 lbs (10.0 kg)</td>
<td>28.7 lbs (13.0 kg)</td>
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<tr>
<td>O-ring</td>
<td>ABS50057</td>
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</table>

### Heavy and Medium Duty Systems

These high capacity filtration units are designed to efficiently and cost effectively clean large volumes of lubrication fluids. It combines Racor’s unique depth loading filter for removal of wear particles, moisture, and sludge in large engine applications.

### Centri-MAX10

<table>
<thead>
<tr>
<th>Specifications</th>
<th>ABS20430 (3 micron filter)</th>
<th>ABS20470 (5 micron filter)</th>
<th>ABS25450 (10 micron filter)</th>
<th>ABS23024 (Catch Sheet-Centrifuge)</th>
</tr>
</thead>
<tbody>
<tr>
<td>60Hz Application</td>
<td>1440 PS 1050 KW 1400 HP</td>
<td>79 GPH (300 LPH)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Filters Per Housing</td>
<td>1</td>
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<td></td>
<td></td>
</tr>
</tbody>
</table>

See Brochures 7815 and 7974 for more information.
Engine Lube Oil Filtration
Stop, Contain, Reduce

Racor SCR Protection = System Dependability

Stop. — Dirt (Absolute Filtration)

Contain. — Contaminants (Moisture and Wear Particles)

Reduce. — Wear (Engineered Media)
Lube Oil Systems
For Original Equipment Manufactures

Full Flow Spin-on Oil Conditioning Modules
Racor lube oil systems are a combination of engineered media designed to provide the best performance, efficiency and dirt handling capacity, with the lowest pressure loss through the system. Racor’s engineering doesn’t stop with just a filter. The system design capability of Racor, combines performance with a modular concept, adds cost reduction, value, reliability to performance all into one package. With a Racor “system package” multiple components are trimmed down to one reliable source, Parker Racor.

Multi-stage Full Flow Bypass Oil Conditioning System
Lube filtration undergoes continuous development at Racor. Objectives are two-fold. One to increase the cumulative efficiency and two, provide the highest dirt holding capacity obtainable while staying in the constraints of the package envelope. One way to accomplish this is by combining engineered cellulose or synthetic media along with a micro, depth loading bypass system. The result is a compact lube filtration system that meets the OE requirements for efficiency and dirt holding capacity.

Full Flow Top-load Oil Conditioning Modules
A permanent assembly houses both the Racor top-load oil filter and top-load fuel filter. The top-load filters meet the requirements of today’s oil-controlled, high pressure fuel injection systems. Racor media meets the variable geometry and variable nozzle turbocharger requirements. An uncompromising, high level of fluid cleanliness is needed to achieve operating efficiency and reach service life. The environmentally-friendly cartridge oil filters are crushable, incinerable and cost-effective to replace. Filter service is from the top of the module and skin contact is minimal due to the unique screw top cap and oil element attachment. The permanent assembly is customized with a patented automatic drain that allows oil to drain back into the sump when the engine is turned off and the screw top cap is removed for service. This Racor-engineered feature eliminates the waste oil that is left in a standard spin-on filter and thrown away during a filter change. The top-load oil conditioning module is a prime example of value-added Racor engineering that tailors a filtration system to a specific engine working in a broad range of environments. Development includes detailed analysis of the engine’s filtration requirements, change intervals, available mounting space and a cost analysis of the entire program. Racor’s investment in rapid prototype equipment provides fit-up assemblies to facilitate the development process.

Stop.
Contain.
Reduce.
Racor Top Load Oil Filter Modules

- The filter and screw top cap are a patented, combination design that minimizes skin contact during service. System patents ensure that equipment owners receive genuine OEM replacement filters.
- Top-loading filter replacement is user-friendly, cleaner, easier, and quicker than servicing under-engine mounted filters.
- Patented center tube filter design includes a bypass for engine protection. Because oil is supplied to the engine from the bypass in the top of the chamber, contaminants collecting at the bottom do not enter the engine.
- High performance, high efficiency engineered filter media.
- Environmentally-friendly, incinerable filter.
- Rugged, die cast aluminum housing.
- Automatic drain valve eliminates oil in the housing during service.
- Turbocharger Oil Supply.
- Oil pressure regulator can be integral to the system.
- Custom OEM mounting base.
- Ports for pressure and temperature sensors can be added for all-in-one engine management.
- Coolant connection is supplied in the module base.
- Fuel filtration media is specified based on the engine system requirements and service intervals.
- Fuel system pressure regulation and fuel return connection are included in the module.
- Integrated anti drain-back and oil cooler bypass.
- An efficient stacked plate cooler, designed into the module, ensures optimum engine oil operating temperature.

The System Advantage
Racor top-load fluid conditioning modules can be designed to include secondary fuel filtration, full-flow oil filtration, built-in performance monitoring sensors and controls, and fuel heaters.

The module shown has an oil cooler incorporated into the assembly. Advanced filter media can be engineered to meet the most specific, the most stringent, and the most demanding applications, achieving optimum efficiency and capacity.
Lube Oil
Testing Capabilities

SAE and ISO Standard Media Verification

Efficiency: Testing is per ISO 4548-12. Racor has developed a number of media that offer this level of efficiency by blending cellulose and polyester fibers, which enhance strength and durability. Synthetic or microglass fibers can be added for strength and efficiency.

Capacity: Testing for capacity is per SAE J806 using SOFTC-2A as a clogging contaminant. This more fairly represents what happens in a crankcase in terms of soot and oxidation products clogging the filter medium. Racor believes this to be a more realistic measure of ultimate field performance than using test dust as a contaminant.

Reliability/Durability Testing Capabilities

- Multiple Axis Shake and Vibration: 3 Axis - Uniaxial Electrodynamic Shaker
- Engine Dynamometer: 1,000 bhp
- Pressure/Pulse: Hydrostatic Pressure, Resistance and Pulse

Engine and Lube Oil Analysis

- Engine operation over the standard oil change interval typically produces an amount of inorganic material equaling 15-25% of the filters capacity. The remaining 75-85% is made up of organic products such as sludge. Sludge does effect wear on an engine many times over from clean oil.
- Oil provides lubrication, cools components, cleans and protects from rust and seals by filling irregularities in cylinder walls creating a better seal between the piston rings and cylinder wall.
- Soot is monitored because it increases the viscosity of oil. A 5% increase in soot can increase viscosity many times over.

Oil is the life blood of an engine.

Engine Oil Analysis:
Lube Oil Analysis provided all or in part by qualified laboratories
Lube Oil Analysis and Monitoring Kits

What Oil Analysis Detects:
- Fuel dilution of lubrication oil
- Dirt contamination in the oil
- Antifreeze in the oil
- Excessive bearing wear
- Misapplication of lubricants
- Provides early warning of impending problems, preventing breakdowns, and allowing for corrective action
- Can be used to determine if the appropriate lubricants are being used.

LFS RK760: Lube Oil Analysis Kit

The lube oil analysis kit tests engine, transmission, and hydraulic oils. It comes with all containers and documentation required by the lab to fulfill a proper analysis.

- A sample is taken from the engine or transmission and placed in the supplied bottle.
- Fill out the included form and attach the label to the sample bottle.
- Return the sample to the lab in the provided container.
- The sample is tested within 24-48 hours of receipt and results are sent back to you by e-mail, fax, or password secure website.
- If sample indicates a critical or abnormal condition. The lab will contact you immediately.

Time Frame: 3-11 Days

LFS RK761: OilCheck™ Portable Oil Monitor

The oil monitor measures the effect of all the contaminants and the electrochemicals that occur in synthetic and petroleum based oils. This is achieved by detecting and measuring the oil’s dielectric constant.

By comparing the measurements obtained from used and unused oils of the same make and grade, the oil monitor is able to determine the degree of change in the oil’s dielectric constant. Dielectric change is directly related to the contamination level and degradation of the oil and may allow the user to achieve longer intervals between oil changes and immediately detect increased mechanical wear and coolant dilution, resulting in the loss of the oil’s lubricating properties.

Time Frame: 5-10 Minutes

Fluid Types:
- Engine Oil
- Transmission Fluid
- Hydraulic Fluid

Oil analysis tells you a lot about how the equipment was used and what condition it’s in. Oil that has been inside any moving mechanical apparatus for some time reflects the exact condition of that assembly. As moving parts make contact, wear occurs and introduces minute metal particles to the oil. These particles are so small that they remain in suspension. Many products of the combustion process also become trapped in the circulating oil. In addition, the oil may be exposed to external contamination. Identifying and measuring these impurities indicates the rate of wear and level of contamination. Thus, the oil becomes a working history of the machine. Oil analysis also suggests methods to reduce accelerated wear and contamination.
Just as replacement filters are the heart of a filtration system, so is media research and development. It is the heart of Racor engineering programs world-wide. Racor is renowned for its fuel filtration and patented Aquabloc® media. In oil, the development programs are equally ambitious and testing equally rigorous.

Racor’s state-of-the-art laboratories provide the comprehensive test results needed to ensure that filtration systems meet performance specifications.

Tests are conducted on ISO and SAE certified test equipment, including an electronically-monitored engine dynamometer to ensure accurate documentation of the results. Racor engineering research is continuously focused on the latest technology in oil filter media development. Laboratory tests have proven up to 40% higher efficiency with Racor oil filter media versus competitive oil filters (ISO 4548-12 Test Procedure).
Racor offers multiple oil filter media options, including synthetic media, for specific engine operating requirements. Synthetic media increases the efficiency and durability of oil filters.
## Lube Oil and Transmission Application Guide and Filter Kits

### PF L2016
Racor Replacement Filter Cartridge
For 6.0L and 6.4L Diesel Engines

**Ford light duty trucks**
Replaces Ford oil filters on 6.0L diesel engines (model years 2003-2010), IHC VT 365 diesel engine, and IHC school buses.

<table>
<thead>
<tr>
<th>Applications</th>
<th>Type</th>
<th>Engine</th>
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</thead>
<tbody>
<tr>
<td>Collins</td>
<td>Cut-Away Chassis</td>
<td>Ford 6.0L Turbo Diesel</td>
</tr>
<tr>
<td>Coach &amp; Equipment</td>
<td>Conventional</td>
<td>VT-365 Engine</td>
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<tr>
<td>Cut-Away Chassis</td>
<td>Ford 6.0L Turbo Diesel</td>
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<tr>
<td>Blue Bird</td>
<td>Conventional</td>
<td>VT-365 Engine</td>
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<tr>
<td></td>
<td>Cut-Away Chassis (Micro Bird)</td>
<td>Ford 6.0L Turbo Diesel</td>
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<tr>
<td>Eldorado Bus</td>
<td>Conventional</td>
<td>VT-365 Engine</td>
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<td></td>
<td>Cut-Away Chassis</td>
<td>Ford 6.0L Turbo Diesel</td>
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<tr>
<td>Ford</td>
<td>Dsl</td>
<td>V8-6.0L Turbo Diesel (YIN P)</td>
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<tr>
<td></td>
<td>F650</td>
<td>6.0L Turbo Diesel [2004-2007]</td>
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<td>F750</td>
<td>6.0L Turbo Diesel [2004-2007]</td>
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<td>E150-450</td>
<td>V8-6.0L Turbo Diesel (P) [2004-2008]</td>
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<td>Excursion</td>
<td>V8-6.0L Turbo Diesel (P) [2003-2005]</td>
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<tr>
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<td>F150-350</td>
<td>V8-6.0L Turbo Diesel (P) [2003-2005] or V8-6.4L Bi-Turbo Diesel [2010]</td>
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<tr>
<td></td>
<td>F450 (Super Duty)</td>
<td>V8-6.0L Turbo Diesel (P) [2003-2007] or V8-6.4L Bi-Turbo Diesel [2007-2010]</td>
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<tr>
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<td>F550 (Super Duty)</td>
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<td>Super Duty E</td>
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<td>Girardian</td>
<td>Cut-Away Chassis</td>
<td>Ford 6.0L Turbo Diesel</td>
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<td>IC Corporation (Bus)</td>
<td>BE200 Conventional School Bus</td>
<td>VT-365 Engine</td>
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<td>International Harvester</td>
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<td>Krystal Bus</td>
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<td>MID Bus</td>
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<td>Thomas Bus</td>
<td>Cut-Away Chassis</td>
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<tr>
<td>Turtle Top Bus</td>
<td>Cut-Away Chassis</td>
<td>Ford 6.0L Turbo Diesel</td>
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**Filter Cartridge Models**

- Baldwin: P7235
- Fram: CH9549
- Service Champ: CF5515
- Security Filter: CH9549
- K/N: HP-7009
- Champion Lab: LP2017
- Mobil 1: MO5515
- Premium Guard: PG5526
- Pennzoil: P2170
- Quaker State: QS45522
- Motorcraft: FL2016
- Ford: 3C3Z6721AA
- International: 1840752C91, 1844688C91

**Application Guide and Filter Kits**

- Baldwin: P7235
- Fram: CH9549
- Service Champ: CF5515
- Security Filter: CH9549
- K/N: HP-7009
- Champion Lab: LP2017
- Mobil 1: MO5515
- Premium Guard: PG5526
- Pennzoil: P2170
- Quaker State: QS45522
- Motorcraft: FL2016
- Ford: 3C3Z6721AA
- International: 1840752C91, 1844688C91
Automatic Transmission Filter Kit

- Extend Transmission Life
- Extend Service Intervals
- Reduce Maintenance Costs

Overview
- The Racor LFS 22825 automatic transmission filter kit includes the hardware, fittings, and mounting bracket for a simple installation.
- The spin-on filter is manufactured with synthetic media specifically designed for transmission fluid use.
- Simply cut the steel tube going to the transmission cooler and slip on the Parker Flareless tube fittings and tighten.

Kit Includes
- Heavy-duty 1/4” steel plated pre-drilled black powder-coated mounting bracket
- Aluminum mounting head, powder-coated gloss black with four 3/8” NPT ports
- High efficiency 6 micron micro-glass filter
- Parker JIC and Ferulok flareless fittings
- Bolts, nuts, and washers

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>LFS 22825</td>
<td>Automatic Transmission Filter Kit</td>
</tr>
<tr>
<td>Replacement Filter</td>
<td>Micron</td>
</tr>
<tr>
<td>LFS TF1006RE</td>
<td>6</td>
</tr>
</tbody>
</table>

LFS 22821-01 Hose Kit For Racor Transmission Filter Kit

Kit Includes
Includes one 30” long Hose per kit. Hose assembly has 9/16”-18 UNF, 90° swivel on one end, and 3/8” straight end on the other. 2 Hose Assemblies shown

<table>
<thead>
<tr>
<th>Two hose assemblies are required for installation.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hose</td>
</tr>
<tr>
<td>--------</td>
</tr>
<tr>
<td>3/8”</td>
</tr>
</tbody>
</table>

See Brochure 7557 for more information.
Water-Absorbing Hydraulic Filters

Racor water-absorbing hydraulic filters feature a specially designed media that traps not only solid contaminants like dirt and rust, but damaging water as well. As the filter fills with water and plugging occurs, flow is restricted and the head goes into bypass mode. Water-absorbing spin-on hydraulic filters are available for virtually any application and are available in a 10 micron rating. To make monitoring easy, Racor offers a range of heads with pressure restriction gauges, including large diameter heads with standard, color coded bar gauges.

### Par Fit™ Hydraulic Filters

<table>
<thead>
<tr>
<th>Specifications</th>
<th>PFHW5710</th>
<th>PFHW5725</th>
<th>PFHW51110</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow rate</td>
<td>50 GPM (189 LPM)</td>
<td>50 GPM (189 LPM)</td>
<td>50 GPM (189 LPM)</td>
</tr>
<tr>
<td>Micron</td>
<td>10</td>
<td>25</td>
<td>10</td>
</tr>
<tr>
<td>Solids Capacity</td>
<td>1.0 oz. (27.6 g)</td>
<td>1.1 oz. (31.4 g)</td>
<td>1.7 oz. (49.6 g)</td>
</tr>
<tr>
<td>Center Threads</td>
<td>1 1/2&quot;-16</td>
<td>1 1/2&quot;-16</td>
<td>1 1/2&quot;-16</td>
</tr>
<tr>
<td>Diameter</td>
<td>5.0&quot; D x 7.0&quot; L</td>
<td>5.0&quot; D x 7.0&quot; L</td>
<td>5.0&quot; D x 11.0&quot; L</td>
</tr>
<tr>
<td>Pressure</td>
<td>100 PSI (6.9 bar)</td>
<td>100 PSI (6.9 bar)</td>
<td>100 PSI (6.9 bar)</td>
</tr>
</tbody>
</table>

See chart below for mounting head information.

### Mounting Heads

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Flow Rate</th>
<th>Port Size</th>
<th>Center Thread</th>
<th>By-pass Setting (PSID)</th>
<th>Replacement Filter</th>
</tr>
</thead>
<tbody>
<tr>
<td>PFHH07500</td>
<td>15 GPM (56 LPM)</td>
<td>3/4&quot; NPTF</td>
<td>1&quot;-12 UNF</td>
<td>3</td>
<td>PFHC3510 PFHC3525</td>
</tr>
<tr>
<td>PFHH07515</td>
<td>15 GPM (56 LPM)</td>
<td>3/4&quot; NPTF</td>
<td>1&quot;-12 UNF</td>
<td>15</td>
<td>PFHH51110 PFHH5710 PFHH5725</td>
</tr>
<tr>
<td>PFHH07525</td>
<td>15 GPM (56 LPM)</td>
<td>3/4&quot; NPTF</td>
<td>1&quot;-12 UNF</td>
<td>25</td>
<td>PFHH51110 PFHH5710 PFHH5725</td>
</tr>
<tr>
<td>PFHH12515MP</td>
<td>50 GPM (189 LPM)</td>
<td>1 1/4&quot; NPTF</td>
<td>1 1/2&quot;-16 UNC</td>
<td>15</td>
<td>PFHW51110 PFHW5710 PFHW5725</td>
</tr>
<tr>
<td>PFHH12525MP</td>
<td>50 GPM (189 LPM)</td>
<td>1 1/4&quot; NPTF</td>
<td>1 1/2&quot;-16 UNC</td>
<td>25</td>
<td>PFHW51110 PFHW5710 PFHW5725</td>
</tr>
<tr>
<td>PFHH12525L</td>
<td>50 GPM (189 LPM)</td>
<td>1 1/4&quot; NPTF</td>
<td>1 1/2&quot;-16 UNC</td>
<td>25</td>
<td>PFHW51110 PFHW5710 PFHW5725</td>
</tr>
<tr>
<td>PFHH12525R</td>
<td>50 GPM (189 LPM)</td>
<td>1 1/4&quot; NPTF</td>
<td>1 1/2&quot;-16 UNC</td>
<td>25</td>
<td>PFHW51110 PFHW5710 PFHW5725</td>
</tr>
</tbody>
</table>

1 MP (multi port head). 2 L = Gauge on left and R = Gauge on right.
The Racor Hydraulic filter cart is a ideal way to prefilter, transfer, or clean up hydraulic fluids.
Fluid should always be filtered before being put into use. New fluid is not necessarily clean fluid. Most new fluids (right out of the drum) may be unfit for use due to high initial contamination levels. Contamination, both particulate and water, may have accumulated during processing, mixing, handling and storage.

Additionally, this product can be utilized to condition existing oils within a reservoir.

The Racor Hydraulic filter cart uses two high capacity ModuFlow™ Plus filters for long element life and better system protection. The first stage (inlet) filter captures larger particles, while the second stage (outlet) filter controls finer particles or removes water. A rugged industrial quality gear pump gets the job done fast.

Using a Parker portable filter cart is the most economical way to protect your system from the harm that can be caused by contamination.

**Applications**

- Filtering new fluid before putting into service
- Transferring fluid from drums or storage tanks to system reservoirs
- Conditioning fluid that is already in use
- Complimenting existing system filtration
- Removing free water from a system
- For use with fluids such as hydraulic, gear, and lube oils

**Specifications**

<table>
<thead>
<tr>
<th>Specifications</th>
<th>10MFP240SA10QBVPI1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fluid Filtered</td>
<td>Petroleum based fluids such as hydraulic, gear, and lube oils</td>
</tr>
<tr>
<td>Recommended Fluid Viscosity</td>
<td>10MFP –500 SUS (108 cSt)  0.85 specific gravity</td>
</tr>
<tr>
<td>Filter Bypass Valve Settings:</td>
<td></td>
</tr>
<tr>
<td>Inlet</td>
<td>3 psid (0.2 bar)</td>
</tr>
<tr>
<td>Outlet</td>
<td>35 psid (2.4 bar)</td>
</tr>
<tr>
<td>Maximum Flow Rate</td>
<td>10 GPM (37 LPM)</td>
</tr>
<tr>
<td>Maximum Pressure</td>
<td>25 PSI (1.7 bar)</td>
</tr>
<tr>
<td>Height</td>
<td>40.5 in. (102.9 cm)</td>
</tr>
<tr>
<td>Width</td>
<td>25.5 in. (64.8 cm)</td>
</tr>
<tr>
<td>Depth</td>
<td>19.0 in. (48.3 cm)</td>
</tr>
<tr>
<td>Weight (approx.)</td>
<td>110 lbs (49.9 kg)</td>
</tr>
<tr>
<td>Max Operating Temperature Using Buna Nitrile Seals¹</td>
<td>-40° to +225° F (-40° to +107° C)</td>
</tr>
<tr>
<td>Max Operating Temperature Using Viton Seals²</td>
<td>-20° to +300° F (-29° to +148° C)</td>
</tr>
</tbody>
</table>

¹ Using Buna Nitrile Seals. ² Viton™ is a registered trademark of Dupont®.

**Replacement Elements**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>940802</td>
<td>Synthetic 40 micron filter element (inlet side)</td>
</tr>
<tr>
<td>937399Q</td>
<td>Micronglass III 10 micron filter element (outlet side)</td>
</tr>
</tbody>
</table>

Many manufacturers of hydraulic components have established fluid cleanliness levels for their components. Using a portable filter cart can be a very effective way to reach and maintain these cleanliness levels.

Save time and money by using the Racor filter cart, and ensure that your fluid is clean and dry. The lightweight portable design allows for easy one person operation.

**Product Features**

- Lightweight and portable
- Eleven foot hose and wand assemblies included
- Pump protection and long element life
- No additional hardware necessary
- Removes dirt and water from system with one process
- One person operations
Racor is the Leading Global Supplier of Fuel, Oil, Air, and CCV Filtration

System Innovation:
- A new generation of engineered lube filters to meet the requirements of today’s oil-controlled components, such as injectors and turbochargers.
- Racor media provides the uncompromising, high level of fluid cleanliness needed to achieve operating efficiency and reach service life.
- Environmentally-friendly cartridge oil filters are crushable, incinerable and cost-effective to replace.

Application Solutions:
- The top-load oil conditioning module is a prime example of value-added Racor engineering that tailors a filtration system to a specific application.

Proactive to Industry Changes:
- New emissions Standards.
- New engine requirements.
- Multiple applications for engine platforms.
- Voice of the customer.

Next Generation Supplier:
- Racor takes pride in providing oil filtration solutions that save our customer maintenance cost and downtime. Over 40 years of listening to the voice of the customer has earned Racor the position as a trusted partner.

Quality First Construction:
- Cartridge and Spin-on.
- Multiple functions in one module.
- Engineered cellulose and synthetic media.
- Meets or exceeds OE specifications.
- Detailed attention to produce superior strength to protect from pressure fatigue.

Why trust your investment to anything else?
Parker Filtration’s Products and Systems

**AEROSPACE**
Key Products
- Filter Vessels (API/IP)
- Fluid Conditioning Monitors (Fuel & Hydraulic)
- Fuel Filter/Water Separators
- Fuel Inerting Systems (OSGIS)
- Fuel Loading Filters (API/IP)
- Fuel, Hydraulic, & Lubrication Filters
- Nitrogen Tire Inflation Systems

---

**FOOD & BEVERAGE**
Key Products
- Carbon Dioxide Purifiers
- Compressed Air Dryers
- Fiber & Membrane Filters
- Nitrogen Generators
- Steam & Sterile Air Filters
- Validation Test Equipment
- Water Chillers
- Water Filters

---

**INDUSTRIAL & PLANT EQUIPMENT**
Key Products
- ASME Coded Vessels
- Compressed Air Filters
- Condensate Management
- Contamination Monitoring
- Desiccant Dryers
- Membrane Filters & Dryers
- Refrigerated Dryers
- Hydraulic Filters
- Oil/Water Separators
- Portable Hydraulic Systems

---

**LIFE SCIENCES**
Key Products
- Breathing Air Filters & Systems
- Chillers
- Compressed Air Filters
- Condensate Management
- Contamination Monitoring
- Desiccant Dryers
- Membrane Filters & Dryers
- Refrigerated Dryers
- Hydraulic Filters
- Oil/Water Separators
- Portable Hydraulic Systems

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**MARINE**
Key Products
- Air Intake Filters
- ASME High Flow Vessels
- Crankcase Emission Filter Systems
- Fuel Dispensing Filters
- Engine Fuel Filter/Water Separators
- Engine Oil & Coolant Filters
- Gasoline Filters
- Hydraulic Filters
- Hydrocarbon Fluid Filters
- Oil/Water Separators
- Submarine CO2 Reduction Units
- Water Desalination & Purification Systems

---

**OIL & GAS**
Key Products
- Air Intake Filters
- ASME High Flow Vessels
- Compressed Air Filters & Dryers
- Compressed Air Water Separators
- Crankcase Emission Filter Systems
- Engine Fuel Filter/Water Separators
- Engine Oil & Coolant Filters
- Fluid Condition Monitoring Systems
- Fuel Dispensing Filters
- Hydraulic Filters
- Hydrocarbon Fluid Filters
- Mechanical Separators
- Membrane & Sterile Air Filters
- Oil/Water Separators

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**POWER GENERATION**
Key Products
- Air Intake Filters
- ASME High Flow Vessels
- Bioenergy Water Chillers
- Crankcase Emission Filter Systems
- Engine Fuel Filter/Water Separators
- Fluid Condition Monitoring Systems
- Fuel Dispensing Filters
- Load Tap Filters
- Hydrogen Generators
- Magnetic Prefilters
- Nitrogen Generators
- Portable Hydraulic Systems
- Water Sensors

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**PROCESS**
Key Products
- Alternative Gas Dryers & Absorbers
- Bag Filters
- Compressed Air Dryers
- Instrumation Filters
- Nitrogen Generators
- Oil Absorption Filters
- Pleated Filter Cartridges
- Process Filters
- Semiconductor Filter Cartridges
- Stainless Steel Prefiltration Vessels
- Zero Air Generators

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**TRANSPORTATION & MOBILE EQUIPMENT**
Key Products
- Air Intake Filters
- Alternative Fuel Filters
- ASME High Flow Vessels
- Crankcase Emission Systems
- Fuel Delivery Systems
- Fuel Dispensing Filters
- Fuel Filter/Water Separators
- Multi-stage Filter Systems
- High Pressure Natural Gas Filters
- Nitrogen Tire Inflation Systems
- Suction & Return Line Hydraulic Filters
- Transmission Filters
- Truck & Railway Dryers

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**WATER**
Key Products
- Desalination & Purification Systems
- Oil Absorption Filters
- Oil/Water Separators
- Pleated Filter Cartridges
- Stainless Steel Prefiltration Vessels
- Sterile Water Filters

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