Power Generation
Filtration Solutions

- aerospace
- climate control
- electromechanical filtration
- fluid & gas handling
- hydraulics
- pneumatics
- process control
- sealing & shielding
400 Series
Quality In One Easy Spin

- High capacity, on-engine, primary or secondary filtration
- Fits most existing mounting heads
- See-thru bowl with water sensor option
- Includes a palm-operated priming pump

Fuel Dispensing

Racor’s new FBO-10 and FBO-14 filter assemblies are designed to meet the toughest hydrocarbon refueling conditions and provide for ease of filter change-outs. The FBO assembly can flow from 25 GPM (95 LPM) to 75 GPM (230 LPM) depending on the model, the filter installed, and the fuel being filtered.

For additional information on FBO, RVFS Series, and other higher flow fuel filtration needs, request brochure #7537. Fuel polishing service equipment is also available to service fuel systems on remote or backup power generation systems.

Aquabloc®II media sheds water and keeps engines waterproof, rustproof, and dirtproof.

A durable mounting bracket doubles resistance to vibration fatigue.

Polymer bowl withstands impact and temperature extremes.

The high-grade aluminum components and powder coat paints mean corrosion is never a worry.

300 watt heaters start you in the cold. Thermostats are standard to meet the requirements of today’s electronic engines.

Self-venting drain. A single twist makes draining clean, fast, and easy.

High-Capacity RVFS Series

RVFS Series filter vessels offer a versatile, economical alternative to competitor’s vessels. Industry applications include removing liquid and solid contaminants from diesel fuel, gasoline, kerosene, aviation gas, jet fuel, and other lubricating or hydraulic oils. RVFS vessels utilize proven filter design technology and can be used as coalescers, pre-filters, monitors or separators by changing internal components or flow direction, or by selecting optional filter cartridges when ordering.

For additional information, request brochure #7529.
700 Series Integrated Filter/Separator

700 Series filters are equipped with state-of-the-art fuel pumps with either brush or brushless DC motors. In brushless versions, the motor shaft directly drives the gerotor, creating a unique, positive displacement pump. The gerotor has fewer parts than gear or vane pumps, and the sensorless control technology of the brushless DC motor makes this product the most reliable filter and pump assembly on the market. The brushless pump assembly is ideal for tough on-engine applications. For off-engine mounting, brushed pumps are a more economical alternative.

The 700 Series Integrated Fuel Filter/Water Separators have a two-stage filtration and priming system. This complete fuel management system isolates contaminants present in diesel fuels and traps them prior to reaching the fuel injection system, protecting against costly and premature failure. For additional information, request brochure number 7683.

Guardian: A Handy Way To Transfer Fluids

Contamination is sometimes added to a new fluid – hydraulic or diesel – during processing, mixing, handling, or storage. If your fluid system is sensitive to the harmful effects of contamination, the Guardian Portable Filtration System may be ideal for your application.
LFS RK46267—The New Generation Of Top-Load Filters

Racor Top-Load Lubrication Filters include a high efficiency, environmentally clean, cartridge replacement filter with a safety bypass valve, auto drain-back to the sump for service, and an anti drain-back valve to prevent dry start-ups.

Top-load filters meet the requirements of today’s electronically-controlled, high pressure fuel injection systems. An uncompromising, high level of fluid cleanliness is needed to achieve operating efficiency and reach service life. The environmentally-friendly cartridge oil filter is crushable, incinerable, and cost-effective to replace.

Filter and screw cap are a patented, combination design that minimizes skin contact during service. Parker Racor patents ensure that equipment owners receive genuine OEM replacement filters.

Top-loading filter meets OEM filter specifications and is user-friendly—cleaner, easier, quicker than servicing under-engine mounted filters.

Rugged, die-cast aluminum housing.

Integrated oil pressure regulator is available.

Oil supply from engine.

Auto drain port.

Clean oil to engine.

Filter mount adaptor is designed for vertical or horizontal connection.

High performance, high efficiency filter media.

LFS RK761 OilChek™ Portable Oil Monitor

The oil monitor measures the effect of all the contaminants and the electro chemicals that occur in synthetic and petroleum based oils. This is achieved by detecting and measuring the oil’s dielectric constant. Use with engine oil, transmission fluid, or hydraulic fluid.
DOC19 and DOC Plus, Patented Maintenance Systems

DOC19 and DOC Plus patented maintenance systems automatically change oil while the engine is running. The DOC19 systematically removes small amounts of oil from the engine, blends it into the return fuel line, and burns it as fuel—in a simple, efficient closed loop system to keep your vehicle out of the maintenance shop and on the job.

The DOC Plus incorporates Racor's proven gravity-based Never Lo oil replenishing system to continuously replace the oil withdrawn from the engine and burned by the action of the DOC for the ultimate in hands-off oil maintenance. Reduced downtime for engine maintenance means quick payback.

Never Lo Oil Replenishing Systems

Never Lo Oil Replenishing Systems, automatic or manual, provide a constant supply of fresh, clean oil to the engine.

- The AFG Automatic Gravity System continuously monitors engine oil and automatically maintains it at a pre-adjusted level. The system requires no electrical connections and is easy to install.
- The Push-Button Manual Pressurized Remote Fill Oil Replenishing System allows an operator to add oil to the engine by simply depressing a valve button until the desired amount of oil has been added. The amount of oil needed is determined by routine dipstick checking. The site gauge is calibrated at two-quart intervals for easy makeup.
- When used in conjunction with the DOC19, the Never Lo Oil Replenishing System provides a constant supply of fresh oil to the engine.

LFS 800 Series Bypass Oil Filtration

Now, engine owners have the opportunity to combine the Racor Full-Flow Lubrication Filtration System with a highly efficient, environmentally safe Bypass Oil Filtration System.

1. Extends the miles between oil changes
2. Saves maintenance costs and downtime
3. Keeps oil cleaner longer, reducing oil consumption and disposal
4. Extends engine life and "re-build" intervals
5. Keeps engines better lubricated which means reduced wear
6. Removes damaging water
The Pamic® Series

Pamic filters have an average efficiency rating of 99.9% and it increases throughout the life of the filter.

The unique construction of the Pamic filter with its exclusive mechanical pleat separation provides more usable filter area than any competitive air cleaner, thus offering longer filter life. UniPamic models feature an efficient moisture separator panel which removes over 90% of the water that may enter the face of the air cleaner. AutoPamic® models can be upgraded to include a gravity-discharged dust pre-cleaner. RotoPamic® models are upgradeable to either a compressed air or exhaust-aspirated pre-cleaner. An optional, easy-to-use service indicator tells when to change the filter assuring maximum usage and low operating costs.

With its low intake air restriction and its greater effective media area than other dry-type air cleaners, the Pamic Series offers improved fuel economy and lowers per hour operating costs.

Pamic filters are easy to service—they do not require special tools and they do not have separate gaskets to replace.

Pamic® Air Cleaners
Unmatched Protection For Any Application

Moisture separator panel is all metal construction and removes in excess of 90% of water.

Heavy-duty, rugged, all metal housing.

Outlet nozzle is shipped loose for field placement.

Powder coated.

Mounting flange (single width) housings have integral mounting flange around the back perimeter.

Exclusive pleat separators assure maximum use of filter media for long service life.

Pamic filter with integral gasket is easy to service.

All Pamic air cleaners, except Slimline models, are easily upgraded for heavy or extra-heavy service simply by changing the pre-cleaner panel.
ECO® III
Racor Engineering Has Raised The Bar On Air Filtration Media Technology

Racor engineers have not only revolutionized the performance of air filtration, but also how the unit is installed and serviced.

It’s a mounting system invented for flexibility and convenience. The reversible base mounting bracket and included hardware mounts quickly, in any direction to frame rail or firewall. This complete mounting system eliminates the need for custom made, field-engineered, and installed brackets—a significant savings of time and money.

**A key feature of the ECO III is the tangential orientation of the 7˝ inlet, which directs air flow evenly around the filter. By engaging the entire filter, filter life increases.**

**The integral CCV™ port enables a Racor Closed Crankcase Ventilation System exhaust line to be easily connected, creating a environmentally-sound air system.**

**Two molded handles on an extended edge lip lets hands firmly grasp and remove the filter. Metal clasps provide an air-tight seal without using tools.**

**The housing can be rotated 180° and securely locked into place. The 6˝ outlet port is field reversible and orientation of the 7˝ inlet port is adjustable in 20° increments.**

ECO II
Disposable Air Cleaners

The ECO Series provides two significant improvements in engine protection. When the filter loads with dirt and replacement is required, collected dust and debris stay safely contained inside the disposable housing, eliminating the chance of contaminating the air intake system during air filter servicing. Since the ECO Series uses no clean air gaskets, you never have to worry about gasket leakage. The outlet simply hooks up to the intake with a rubber connection and clamp, creating a leak-tight seal. For additional information on ECO, request brochure number 7539.
CV Systems

In an open system, the crankcase breather is connected to the Crankcase Ventilation (CV) filter assembly. The CV outlet is open to atmosphere. This configuration is simple to install and is an effective oil mist removal system for applications which allow crankcase venting to atmosphere.

The only routine maintenance required for the CV system is filter replacement. Typical service life of the high-performance filter in diesel applications is 750 hours.

CV units are designed to handle various crankcase flow rates up to 50 CFM. Traditionally, the crankcase flow rate can be calculated as follows: rated horsepower \( \div 20 = \text{cubic feet per minute (CFM)} \). This formula can only be used as a guide since recent improvements in piston design have produced engines with higher horsepower and lower blow-by flow rates. The blow-by flow rate of a worn engine, at time of overhaul, is generally double the flow rate when the engine is new. The flow rate of a worn engine is factored into the formula.

CV systems include a crankcase pressure regulator with integral bypass valve that minimizes variation in crankcase pressure. Excessive variation in crankcase pressure can damage seals, cause loss of oil, and other problems.

Choose left or right-hand inlet.

High-efficiency oil separation to 0.3 micron.

Stainless steel latches for tool-less filter change.

Replaceable high-performance filter with depth-loading, micro-glass fiber coalescing media.

Extended filter service interval from the Vaporblocl™ element.

Steel housing with epoxy powder coating.

Drain check valve allows collected oil to return to crankcase. This eliminates frequent draining and significantly reduces oil consumption.

Continuous operating temperature range is -40°F to +240°F (-40°C to 116°C).
CCV
Closed Crankcase Ventilation Systems

- Pop-up style indicator alerts of bypass condition and need for filter change.
- Unique crankcase pressure regulator with integral bypass valve minimizes variation in crankcase pressure. Excessive variation in crankcase pressure can damage seals, cause loss of oil, and other problems.
- Choose left or right-hand inlet. Available with or without bypass indicator.
- High-efficiency oil separation to 0.3 micron.
- Stainless steel latches for tool-less element change.
- Replaceable high-performance filter with depth-loading, micro-glass fiber coalescing media.
- Extended filter service interval from the Vaporbloc™ element.
- Steel housing with epoxy powder coating.
- Drain check valve allows collected oil to return to crankcase. This eliminates frequent draining and significantly reduces oil consumption.
- Continuous operating temperature range is -40°F to +240°F (-40°C to 116°C).

CCV Systems
In a closed system, the contaminated crankcase gases flow from the engine breather into the CCV inlet. The contaminated crankcase gases flow underneath a valve diaphragm into the interior of the element. The valve regulates the crankcase to a slight negative pressure to reduce engine weeping and prevent damage to the seals. The contaminated gases then flow through the filter media. Soot and other contaminants are trapped by the media and the oil is separated from the air. The oil collects at the bottom of the filter housing for return to the engine sump. A check valve is incorporated into the drain return to prevent reverse flow from the oil pan. The filtered gases then flow through the CCV outlet. The CCV outlet connects with a tap sleeve or marine air filter that returns the filtered gases to the engine intake system. As the filter approaches the need for filter change, a filter service indicator appears at the top of the CCV.
We've Bottled Racor Protection

Racor Additives are performance-enhancing products for all climates and seasons. There are several convenient sizes, including a 16 oz bottle, 1 and 5 gallon containers, and a 55 gallon drum. The high concentration of active ingredients in Racor Additives allows for higher treatment rates:

**Diesel Conditioner Plus+**
16 oz bottle treats 320 gallons

**Diesel Winter Plus+**
16 oz bottle treats 128 gallons

**Diesel Biocide**
16 oz bottle treats 1280 gallons

**Diesel Performance Plus+**
16 oz bottle treats 80 gallons

**Gasoline Conditioner Plus+**
16 oz treats 320 gallons

Racor Additives are alcohol-free and can be used to stabilize fuel, prevent microbial growth, and remove fuel system deposits, keeping the fuel system in top operating condition. They are also suitable for use with mixtures of biodiesel up to B20.

Request brochure #7518 for additional information.

Water Detection Modules and Kits

Racor offers a variety of Water Detection Kits for various installation requirements. Under-dash, in-dash, and remote mount, these solid-state units may be used with any Racor fuel filter/water separator. They are manufactured using the highest quality materials and are all 100% electrically tested.

An electronic detection module analyzes electrical resistance at the water probe and determines if water is present. If so, the detection module operates to indicate water, based on its features (light only or light and buzzer). All units reset automatically after water is removed.

Vacuum/Compound Gauge Kits

Vacuum and Compound (vacuum/pressure) gauges are available to monitor filter condition. As the filter slowly becomes clogged with contaminants the restriction (resistance to flow) increases. The fuel pump still tries to draw fuel (suction) but because of this restriction less fuel is delivered to the engine and instead more air is pulled from it (fuel de-gassing). These results can cause the engine to lose power and eventually stall.

Compound gauges are recommended for applications where pressure is occasionally present. These conditions are typically a result of ‘head’ pressure which is present in overhead fuel tank installations. Whatever the reason, compound gauges should be used because damage may result if a straight vacuum-only gauge is used.
Caution for Users: Petroleum products flowing over a plastic surface generate static electricity. Caution should be taken to ensure that the RFF is grounded to reduce static electricity buildup and reduce the chance of explosions or fire. Electrically bond the funnel by using a wire with a metal clip on each end and clamp one to the upper rim of the funnel and the other to the fueling source. For example, the metal gas can or nozzle from the pump.

Fuel Filter Funnels

Racor Fuel Filter Funnel (RFF) is a new heavy-duty, fast-flow, filter-in-a-funnel that separates damaging free water and contaminants from gasoline, diesel, heating oil, and kerosene.

The new RFF family of products is capable of removing free water and solids down to .005 inches and allows you to visually inspect the integrity of your fuel supply as you refuel.

The RFF family is manufactured using industrial-grade black electro-conductive polypropylene. Carbon powder is injected into the plastic so that the RFF will conduct static electricity. The grounding capability of the RFF is an important safety feature. Always use proper fuel handling procedures and follow local, state and federal regulations.

Request bulletin #7658 for additional information.

RK 22628 Bowl Wrench
North America

Compressed Air Treatment

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