



aerospace
climate control
electromechanical
filtration
fluid & gas handling
hydraulics
pneumatics
process control
sealing & shielding



Racor Filter Division Europe

Commercial Diesel Engine Filtration



ENGINEERING YOUR SUCCESS.

Parker's technical resources provide the correct filtration technologies that conform to your requirements. That's why thousands of manufacturers and equipment users around the world rely on Parker Filtration products and people.



Hydraulic, Lubrication & Coolant Filtration
High-performance filtration systems for protection of machinery in industrial, mobile and military/marine applications.



Filtration & Separation
Complete line of compressed air/gas filtration and separation products; coalescing, particulate and adsorption filters in many applications in many industries.



Racor Fuel Conditioning & Filtration
Parker air, fuel and oil filtration systems provide quality protection for engines operating in any environment, anywhere in the world.



Process & Chemical Fluid Filtration
Liquid filtration systems for beverage, chemical and food processing; cosmetic, paint, water treatment; photo-processing; and micro-chip fabrication.



System Contamination Monitoring
On-line dynamic particle analysis, off-line bottle sampling and fluid analysis and measurement of water content polluting the oil in a system.

Parker Filtration's global reputation as a reliable supplier of superior filtration products is the result of a focused and integrated development and manufacturing system.

Parker Filtration consolidates quality filtration products, manufactured for process filtration, air and gas filtration and separation, fuel conditioning and filtration, fluid power products and hydraulic filter products into one broad-based range that covers many markets and most applications, as detailed here.

Racor

The World's Best Filtration starts with the

Over 30 years of innovation, over 30 years of quality...

1969

Diesel Fuel

1969 It all began with a patented, and exceptionally efficient new way to remove water, dirt, rust and algae from diesel fuel.



1975

Cold

1975 Racor pioneers integrated fuel heaters, now standard throughout the industry.



1983

Technology

1983 Aquabloc® filters debut, and Racor Filter/Separators make another significant leap in filtration efficiency.



1984

Protection

1984 The Racor Sentinel System shuts down an engine before a major component failure can cause permanent damage. Sentinel remains the preferred all mechanical engine control system.



1985

Growth

1985 Racor becomes a division of Parker Hannifin Corporation, further strengthening one of the world's most respected brands.



1987

Standard Equipment

1987 The first Navistar powered Ford E Series and F Series vehicles roll off the production line with the revolutionary, compact and flexible Racor Spin On Series.



1989

Quality

1989 Racor earns Ford Q1 certification, the first in a series of quality awards from one of the world's leading engine and equipment manufacturers.



1991

The Environment

1991 Along with protecting engines, Racor makes products that protect the environment. Lifeguard is a marine fuel/air separator that prevents fuel from escaping overboard from vent lines during refuelling.



1992

Oil

1992 Every bit as vital and every bit as dirty as fuel. The Racor solution is an ingenious one, a cleanable oil filter that puts an end to frequent filter changes and disposal.



Contents

1994

Air

1994 Engines gasping for a breath of fresh air breathe easy with the introduction of synthetic, multi stage Racor "twice the life" air filters.



1995

CCV Products

1995 Racor starts cleaning up engine rooms with a crankcase ventilation system that keeps oily blow-by from damaging turbo chargers and other precision components.



1996

Plant expansion

1996 In addition to the world class manufacturing facility in Modesto, Racor opens locations in Oklahoma, South Carolina, Brazil, Korea and South Africa. In Europe Morley, West Yorkshire in the UK becomes the centre of excellence in Europe.



1997

Racor Hydrocarbon

1997 Racor Hydrocarbon Filters and Vessels debut – offering customers flow rates to 1000 gpm and higher.



2000

UK Facility

2000 Having moved out of Morley into a purpose built factory at nearby Dewsbury in 1998, Racor sees significant growth in Europe. 2000 saw the expansion of manufacturing capability to include all spin on series filters, and the establishment of a state-of-the-art design and test, research and development facility.



2001

Global OEM

2001 Racor continues to forge long term relationships with Global OEM companies to produce sound, cost effective engineered solutions to meet specific application requirements.



2002

High performance air filters

2002 Racor purchases Farr opening up opportunities in medium and heavy duty Engine Air applications.



2007

Ultra high efficiency CCV integration

2007 European design and engineering consolidation to provide CCV integrated OEM solutions.



2008

Lab and engine test facilities

2008 A major investment in Dewsbury facilities ensure technical resources are in place to support customer needs. Parker Racor purchases Village Marine-Water filtration desalination products.

The most trusted name in engine protection

Racor technology takes the guesswork out of engine protection and Racor manufacturing quality and attention to detail ensures every customer gets the filtration and separation solution they are looking for.

To make product selection easier, Racor's extensive range has been catalogued into four market/ application groups detailed below.

Hydrocarbon Filter Vessels and Elements

From the refinery to the injector, at the terminal and on the forecourt, Racor has a hydrocarbon filter vessel and element solution to meet your fuel delivery needs.



Ref: FDRB130GB1

Commercial Fuel Filtration

Everytime you add fuel, you add millions of tiny contaminants...small enough to be invisible, but big enough to destroy injectors, pumps and profitability. Racor's industrial and automotive product range of customer proven spin-on filter/separators, turbine fuel filters and crank case ventilators are the solution.



Ref: FDRB29GB1

Engine Air Filtration

Systems Fresh air. That's what Racor filtration is all about. Because when engines breathe easier they perform better with more power, more torque and with improved fuel economy. Whatever your application, there's a Racor Air Filtration system that will help you and your engine breathe easy.



Ref: FDRB172UK

Leisure Marine and Commercial Marine

Filtration Ask a sailor about engine protection. About filtration, about reliability and performance. Whether they are the master of a superyacht, sailboat, fishing boat or tug, the chances are the one word answer will be the same as it has been for more than three decades...Racor. Marine filtration products trusted across the seven seas.



Ref: Leisure Marine FDRB175UK
Ref: Commercial Marine FDRB136GB1

For further information email:
filtrationinfo@parker.com

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The World's Best Filtration Starts with the

Whether you operate a truck, bus, generator or pump set, you need to know that every time you switch on the ignition you will hear the engine fire into life, each time and every time. There is no better way to ensure engine reliability than with good quality filtration. Whatever and wherever your application, we have a system which will meet your requirements.

Fuel Filtration Water Separators (FFWS)

Fuel Contamination, either in the form of dirt or water will find its way into your fuel system however careful you are. With modern engines now injecting fuel at anything up to 2000 bar, and injector tolerances being measured in microns, it is hardly surprising that even a small amount of dirt or water corrosion can start a problem. Water or particulate can cause microscopic surface damage which is then focused on by the high pressure flow, to cause significant wear which will eventually lead to reduced efficiency and complete break-down. Several \$100 of filtration over an engines life can save \$1000's in engine re-fits let-alone down-time. Parker Racor offer what is widely accepted as the industry bench mark premium product, why risk anything less.

Working to Efficiency standards:

ISO TR 13353, ISO TS 13353,
ISO 19438, SAE J 1985,
SAE J 905,

Water Separation Standards:

ISO 4020 6.5, SAE J1839,
SAE J 1488)

FFWS

1. 400 Series FFWS
2. 600 Series FFWS
3. 200 Series FFWS
4. Turbine FFWS
5. Top Loader
6. P-Series Pump FFWS
7. RAC gasoline Series

Fuel Dispensing Filters

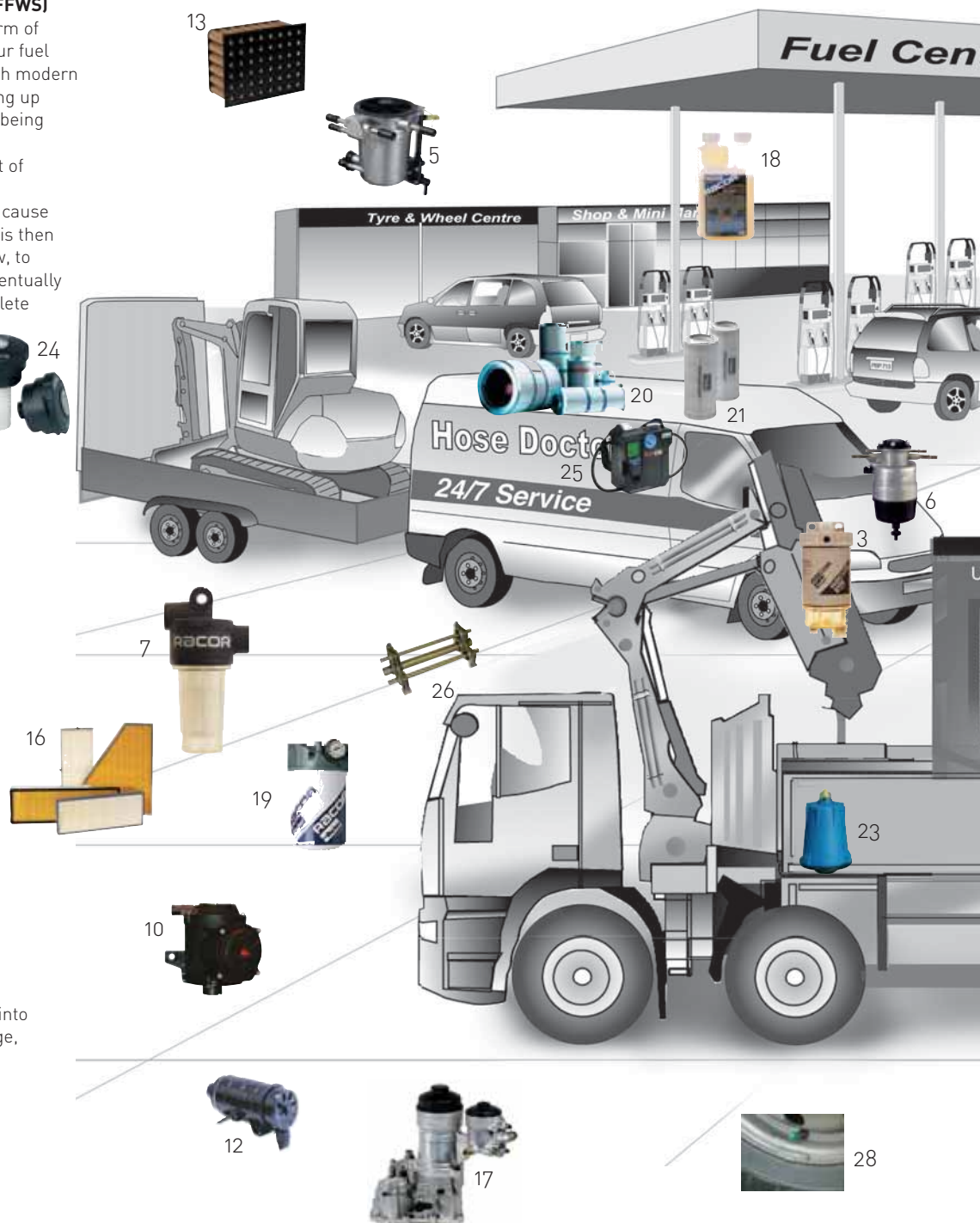
Water and dirt are often introduced into fuels during fuel transfer and storage, therefore to clean fuel before it enters the fuel tank, will reduce contamination, protect your injection system and save money in the long-run.

Fuel Delivery

8. FBO FFWS
9. RVFS FFWS

Racor Closed Crankcase Ventilation

To meet emissions legislation and also to keep engine bays and air filters clear of oil, engine blow by gases emanating from the crankcase are fed back into the air intake before the turbo charger.



The high grade aluminium components and powder coat paints mean that corrosion is never a worry.

A durable single bolt mounting bracket doubles resistance to vibration fatigue.

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

300-watt heaters start you in the cold – thermostats are standard to meet the requirements of today's electronic engines.

Polymer bowl withstands impact and temperature extremes.

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

With an Aquabloc II replacement element, you get a complete kit with all the seals you need.

Aquabloc II media is a blend of high grade cellulose compounded with resins and a special chemical treatment.

The First in Fuel Filtration

Every engine runs better with a system that cleans fuel, removes water, heats fuel and senses when it's time for service. The system is the Racor Turbine Series and it's the most complete, most efficient, most reliable high-capacity engine protection you can install. A system that protects your investment in engines and fuel.



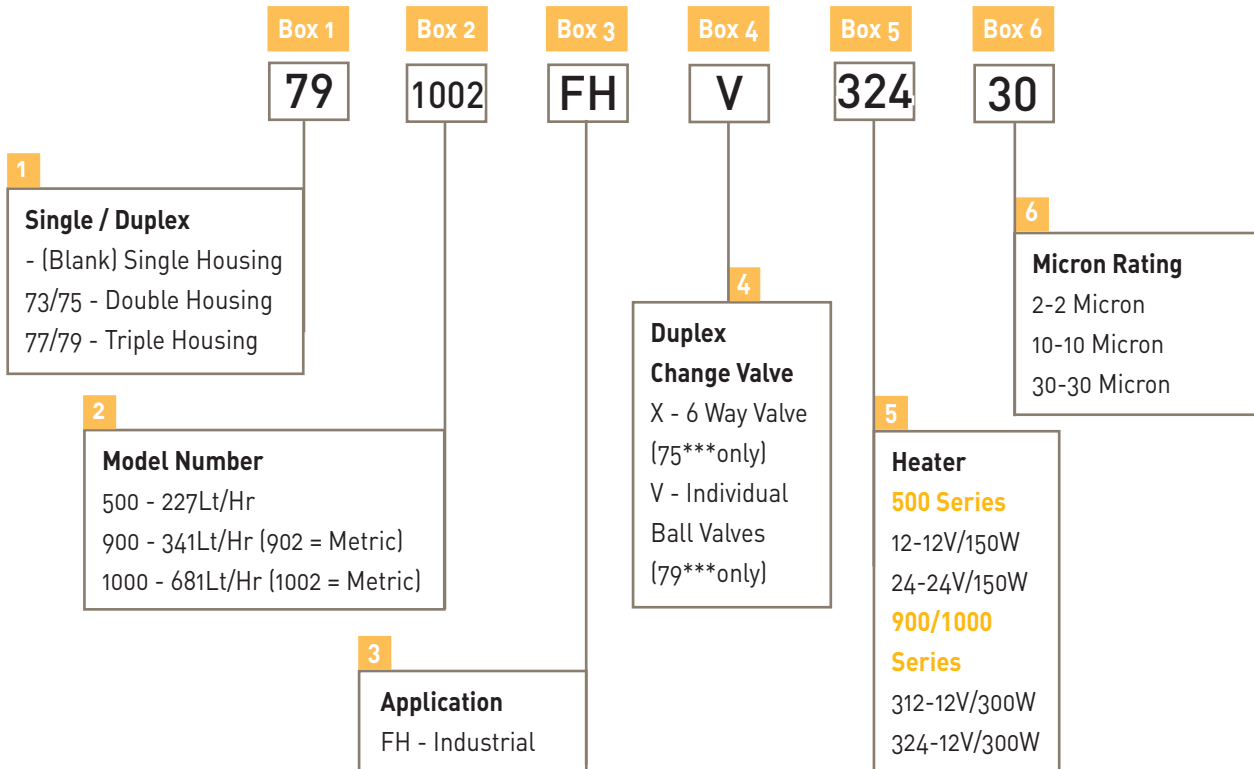
End caps are colour-coded for easy identification and application – red for 30 micron primary filtration, blue for 10 micron primary or secondary, and brown for 2 micron secondary/final filtration.

Use original Racor filter elements to ensure premium performance.

An integral bail handle makes changeouts easy.

Aquabloc II elements filter harmful tiny particles of dirt and algae from fuel. Aquabloc II elements are rustproof – with polymer end caps that won't ever corrode.

Turbine Series



Model	500FG	900FH	1000FH	75500FGX	75900FHX	731000FH	751000FHX	771000FH	791000FHV
Maximum Flow Rate	60 gph 227 lph	90 gph 341 lph	180 gph 681 lph	60/120 gph 227/454 lph	90/180 gph 341/681 lph	360 gph 1363 lph	180/360 gph 681/1363 lph	540 gph 2044 lph	360/540 gph 1363/2044 lph
Height	11.5" / 292mm	17" / 432mm	22" / 559mm	11.5" / 292mm	17" / 432mm	22" / 559mm	22" / 559mm	22" / 559mm	22" / 559mm
Width	5.8" / 147mm	6" / 152mm	6" / 152mm	14.5" / 368mm	18.75" / 476mm	16.5" / 419mm	18.75" / 476mm	21.5" / 546mm	21.5" / 546mm
Depth	4.8" / 122mm	7" / 178mm	7" / 178mm	9.5" / 241mm	11" / 279mm	12" / 305mm	11" / 279mm	12" / 305mm	12" / 305mm
Weight	4 lbs / 1.7 kgs	6 lbs / 2.7 kgs	10 lbs / 4.5 kgs	17 lbs / 7.7 kgs	23 lbs / 10.4 kgs	26 lbs / 11.8 kgs	30 lbs / 13.6 kgs	39 lbs / 17.7 kgs	52 lbs / 23.6 kgs
Port Size Std. (Option)	3/4"-16 UNF 16mm x 1.5	7/8"-14 UNF 22mm x 1.5	7/8"-14 UNF 22mm x 1.5	3/4"-16 UNF	7/8"-14 UNF	3/4" NPT	7/8"-14 UNF	1"-11 1/2 NPT	3/4" NPT
Clean Pressure Drop	0.25 psi 1.72 kPa	0.34 psi 2.4 kPa	0.49 psi 3.4 kPa	0.70 psi 4.83 kPa	1.7 psi 11.7 kPa	1.7 psi 11.7 kPa	3.7 psi 25.5 kPa	1.7 psi 11.7 kPa	2.5 psi 17.2 kPa
Maximum Operating Pres.	15 psi 103 kPa	15 psi 103 kPa	15 psi 103 kPa	15 psi 103 kPa	15 psi 103 kPa	15 psi 103 kPa	15 psi 103 kPa	15 psi 103 kPa	15 psi 103 kPa
Replacement Element #	2010PM-OR	2040PM-OR	2020PM-OR	2010PM-OR	2040PM-OR	2020PM-OR	2020PM-OR	2020PM-OR	2020PM-OR+
Element Removal Clearance	4" / 102mm	5" / 127mm	10" / 254mm	4" / 102mm	5" / 127mm	10" / 254mm	10" / 254mm	10" / 254mm	10" / 254mm

Notes:

1 Male "JIC" 37" fittings.

2 Flow rates shown for one/both filters on-line.

3 Flow rates shown for two/all filters on-line.

For accurate fuel flow rates consult your engine manual, engine manufacturer's agent or Racor distributor.

Manifold Units:

- 75500, 75900 and 751000 double manifolds with shutoff valve.
- 731000 double manifold without shutoff valves.
- 791000 triple manifold with shutoff valves.
- 771000 triple manifold without shutoff valves.

Fuel Filter Primer Pump

Applications

The Turbine Series Fuel Primer Pump Kit is designed for marine, gen set, and mobile applications.

Product

The **RKP1912** (12 volt) and **RKP1924** (24 volt) Fuel Primer Pump Kits can be retrofitted to the Racor 1000 or 900 series fuel filters already in service.

The Primer Pump Kit is designed to offer improved ease of maintenance for the user.

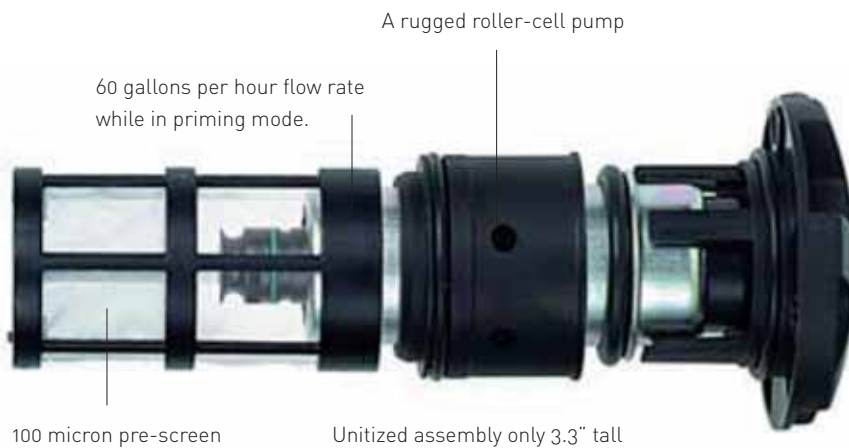
The Primer Pump Kit is a pre-assembled system which includes all the components ready for easy installation. It is manufactured with premium materials installed into a die cast and powder coated housing.

How it works

The Fuel Primer Pump Kit is an innovative and proprietary system consisting of a pre-screen filter, a flow bypass circuit and a roller cell pump powered by a 12VDC brushed motor or a 24VDC brushless motor.

When the switch is activated the fuel is drawn into the pre-screen and then pumped through the housing refilling the unit with fuel. When not in use the primer pump system is bypassed and the Racor fuel filter/water separator functions normally.

The Primer Pump Kit works on Racor duplex and triplex systems also. This will allow one Racor primer pump to prime the other filter or filters in a manifold system such as a 751000MAX for example.



Benefits

- Easy installation.
- Pump adds only 3.3" to the over all assembly.
- 60 gallons per hour flow rate while in priming mode.
- 12 VDC brushed electric motor.
- 24 VDC brushless electric motor.
- 100 micron pre-screen.
- One size fits several models.
- Kit includes wiring harness and controller switch.
- Allows for electric re-priming of filter and fuel system.
- Not for use as continuous duty.

