SNAPP™

The One-Piece, High-Performance Snap-In Fuel Filter Water Separator

aerospace
climate control
electromechanical
filtration
fluid & gas handling
hydraulics
pneumatics
process control
sealing & shielding
Now, getting the fuel filtration you need ...

is a SNAPP.

SNAPP. The fuel filter change that changes everything.

The world turns to Racor for filtration solutions that provide ultimate protection from water and solid contamination. This is filtration that includes two innovations often copied but never quite duplicated – the powerful protection of patented, world-class Aquabloc® filter media and, the Racor trademark, a clear bowl that allows for at-a-glance inspection of fuel system integrity.

Fast, easy, clean, SNAPP is a fuel filter change for the better

SNAPP is big protection for small engines up to 40 gph and makes every filter change literally a snap. Fast, easy, clean. No tools are needed – when it’s time for service, simply snap in a new filter. Simple installation and a patented priming system mean that protecting your engine investment is now ... a SNAPP.
Forget multi-piece filters with glass bowls. Forget messy change-outs. SNAPP is a one-piece fuel filter separator that is fast and effortless to service.

Quick-connect fittings for fast, confident connections.

Quick-release squeeze tabs make filter changes a snap.

Permanent mounting bracket is stainless steel for withstanding corrosive environments.

SNAPP is a one-piece fuel filter water separator for 24/7 protection, even with E10 gasoline and bio-diesel.

Heavy-duty high-impact nylon construction won’t ever rust or corrode, even in humid conditions.

Clear bowl for at-a-glance inspection.

The rugged clear bowl allows on-the-spot inspection for water in fuel – a significant advantage when troubleshooting fuel quality.

The Racor self-venting drain means easy service with no mess – twist, drain, done.

Legendary Aquabloc® filter media in 2, 10 or 30 micron rating.

The Aquabloc® media is the world’s definitive filtration protection – it’s 99% effective in separating water and solid contamination from diesel and bio-diesel.
Sensitive diesel fuel injection systems demand precise removal of damaging water and solid contamination. Yet, fuel additives to diesel and bio-diesel have made separation of harmful liquid and solid particulates more challenging than ever. The SNAPP integrated fuel filter water separator is a filtration system that is 99% efficient – for complete injector protection.

**Stage One: Coalescing**
Water droplets coalesce on the outside of a chemically-treated composite media. As the droplets grow in size, being heavier than fuel, they fall into the collection bowl to be drained away. Importantly, the massive surface area of the pleated media helps to slow fuel velocity, enabling extraordinary water removal minimum efficiency of +99% (SAE J1839). Especially with biofuels, this level of water removal is critical to engine protection.

**Stage Two: Filtration**
Engineered, pleated media filters microscopic particles of dirt and rust – with 99% (SAE J1985) minimum efficiency.
The ultra high-efficiency Aquabloc media is an engineered blend of distinct media formulations:
- highgrade cellulose compounded with engineered fibers and chemical treatments proven to repel water.

- Ultra-high capacity means less frequent filter changes, boosting operating economy.

- The Aquabloc media is both corrugated and pleated to present a high capacity effective filtration surface area. This design innovation slows fuel velocity to improve coalescing and filtration efficiency.

- The high-dirt-holding-capacity Aquabloc media helps to dramatically extend the life of final-stage on-engine filters, and reduce the overall cost of the filtration program.

- Aquabloc cartridge filter elements are available in 2, 10, 30 micron ratings for diesel, B-20 bio-blends, gasoline and E10, so that protection can be tailored to fuel quality, operating environments and service schedules.

Aquabloc Composite Filter Media with Low Flow Restriction

+99% water removal efficiency, tested with ULSD (SAE J1839)
+99% particle efficiency (SAE J1985)

**EASY TO INSTALL AND SERVICE**

1. SNAPP can be installed in the fuel line between tank and engine, in an open location.
2. Snap in a new filter; just squeeze tabs to remove.
3. Quick-connect couplings speed installation and service.

**EASY TO PRIME**

- Disconnect fuel lines; snap out the old and snap in the new filter.
- With Drain: Flip up the old filter; open the drain to prime the new; remove and reconnect.
- Without Drain: To prime SNAPP units without the drain, simply tip the old unit, and fuel will flow into the new filter.
Wherever small gasoline, diesel and bio-diesel engines need big protection. Wherever time is money.

SNAPP fuel filter water separators are packaged for a first installation with mounting bracket and quick connect fittings. The replacement kit includes a new SNAPP filter and priming accessory.

**NOTE:** Kits include Aquabloc media in 2, 10 or 30 micron ratings. Two micron is recommended for ultra-fine filtration of solid contaminants.

**Specifications**

<table>
<thead>
<tr>
<th>Specification</th>
<th>23281-02</th>
<th>23281-10</th>
<th>23281-30</th>
<th>R23280-02</th>
<th>R23280-10</th>
<th>R23280-30</th>
<th>23299-02</th>
<th>23299-10</th>
<th>23299-30</th>
<th>R23298-02</th>
<th>R23298-10</th>
<th>R23298-30</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Maximum Flow Rate</strong></td>
<td>40, 34, 26 gph*</td>
<td>40, 34, 26 gph*</td>
<td>40, 34, 26 gph*</td>
<td>25, 21, 17 gph*</td>
<td>25, 21, 17 gph*</td>
<td>25, 21, 17 gph*</td>
<td>25, 21, 17 gph*</td>
<td>25, 21, 17 gph*</td>
<td>25, 21, 17 gph*</td>
<td>25, 21, 17 gph*</td>
<td>25, 21, 17 gph*</td>
<td>25, 21, 17 gph*</td>
</tr>
<tr>
<td><strong>Aquabloc Micron Rating</strong></td>
<td>2, 10, or 30 micron</td>
<td>2, 10, or 30 micron</td>
<td>2, 10, or 30 micron</td>
<td>2, 10, or 30 micron</td>
<td>2, 10, or 30 micron</td>
<td>2, 10, or 30 micron</td>
<td>2, 10, or 30 micron</td>
<td>2, 10, or 30 micron</td>
<td>2, 10, or 30 micron</td>
<td>2, 10, or 30 micron</td>
<td>2, 10, or 30 micron</td>
<td>2, 10, or 30 micron</td>
</tr>
<tr>
<td><strong>Height</strong></td>
<td>7.8” (198 mm)</td>
<td>7.8” (198 mm)</td>
<td>7.8” (198 mm)</td>
<td>7.8” (198 mm)</td>
<td>7.8” (198 mm)</td>
<td>7.8” (198 mm)</td>
<td>7.8” (198 mm)</td>
<td>7.8” (198 mm)</td>
<td>7.8” (198 mm)</td>
<td>7.8” (198 mm)</td>
<td>7.8” (198 mm)</td>
<td>7.8” (198 mm)</td>
</tr>
<tr>
<td><strong>Width</strong></td>
<td>3.8” (97 mm) at bracket</td>
<td>3.8” (97 mm) at bracket</td>
<td>3.8” (97 mm) at bracket</td>
<td>3.8” (97 mm) at bracket</td>
<td>3.8” (97 mm) at bracket</td>
<td>3.8” (97 mm) at bracket</td>
<td>3.8” (97 mm) at bracket</td>
<td>3.8” (97 mm) at bracket</td>
<td>3.8” (97 mm) at bracket</td>
<td>3.8” (97 mm) at bracket</td>
<td>3.8” (97 mm) at bracket</td>
<td>3.8” (97 mm) at bracket</td>
</tr>
<tr>
<td><strong>Depth</strong></td>
<td>4.1” (104 mm)</td>
<td>4.1” (104 mm)</td>
<td>4.1” (104 mm)</td>
<td>4.1” (104 mm)</td>
<td>4.1” (104 mm)</td>
<td>4.1” (104 mm)</td>
<td>4.1” (104 mm)</td>
<td>4.1” (104 mm)</td>
<td>4.1” (104 mm)</td>
<td>4.1” (104 mm)</td>
<td>4.1” (104 mm)</td>
<td>4.1” (104 mm)</td>
</tr>
<tr>
<td><strong>Water Sump Capacity</strong></td>
<td>3.4 oz. (100 ml)</td>
<td>3.4 oz. (100 ml)</td>
<td>3.4 oz. (100 ml)</td>
<td>3.4 oz. (100 ml)</td>
<td>3.4 oz. (100 ml)</td>
<td>3.4 oz. (100 ml)</td>
<td>3.4 oz. (100 ml)</td>
<td>3.4 oz. (100 ml)</td>
<td>3.4 oz. (100 ml)</td>
<td>3.4 oz. (100 ml)</td>
<td>3.4 oz. (100 ml)</td>
<td>3.4 oz. (100 ml)</td>
</tr>
<tr>
<td><strong>Body Material</strong></td>
<td>Nylon 6 plastic</td>
<td>Nylon 6 plastic</td>
<td>Nylon 6 plastic</td>
<td>Nylon 6 plastic</td>
<td>Nylon 6 plastic</td>
<td>Nylon 6 plastic</td>
<td>Nylon 6 plastic</td>
<td>Nylon 6 plastic</td>
<td>Nylon 6 plastic</td>
<td>Nylon 6 plastic</td>
<td>Nylon 6 plastic</td>
<td>Nylon 6 plastic</td>
</tr>
<tr>
<td><strong>Bracket Material</strong></td>
<td>Stainless Steel</td>
<td>Stainless Steel</td>
<td>Stainless Steel</td>
<td>Stainless Steel</td>
<td>Stainless Steel</td>
<td>Stainless Steel</td>
<td>Stainless Steel</td>
<td>Stainless Steel</td>
<td>Stainless Steel</td>
<td>Stainless Steel</td>
<td>Stainless Steel</td>
<td>Stainless Steel</td>
</tr>
<tr>
<td><strong>Port Size</strong></td>
<td>3/8” (9.5 mm)</td>
<td>3/8” (9.5 mm)</td>
<td>3/8” (9.5 mm)</td>
<td>3/8” (9.5 mm)</td>
<td>3/8” (9.5 mm)</td>
<td>3/8” (9.5 mm)</td>
<td>3/8” (9.5 mm)</td>
<td>3/8” (9.5 mm)</td>
<td>3/8” (9.5 mm)</td>
<td>3/8” (9.5 mm)</td>
<td>3/8” (9.5 mm)</td>
<td>3/8” (9.5 mm)</td>
</tr>
<tr>
<td><strong>Quick-Connect Fittings</strong></td>
<td>3/8” (9.5 mm) (per SAE J2044)</td>
<td>3/8” (9.5 mm) (per SAE J2044)</td>
<td>3/8” (9.5 mm) (per SAE J2044)</td>
<td>3/8” (9.5 mm) (per SAE J2044)</td>
<td>3/8” (9.5 mm) (per SAE J2044)</td>
<td>3/8” (9.5 mm) (per SAE J2044)</td>
<td>3/8” (9.5 mm) (per SAE J2044)</td>
<td>3/8” (9.5 mm) (per SAE J2044)</td>
<td>3/8” (9.5 mm) (per SAE J2044)</td>
<td>3/8” (9.5 mm) (per SAE J2044)</td>
<td>3/8” (9.5 mm) (per SAE J2044)</td>
<td>3/8” (9.5 mm) (per SAE J2044)</td>
</tr>
<tr>
<td><strong>Rated Pressure</strong></td>
<td>50 PSI (3.5 bar)</td>
<td>50 PSI (3.5 bar)</td>
<td>50 PSI (3.5 bar)</td>
<td>50 PSI (3.5 bar)</td>
<td>50 PSI (3.5 bar)</td>
<td>50 PSI (3.5 bar)</td>
<td>50 PSI (3.5 bar)</td>
<td>50 PSI (3.5 bar)</td>
<td>50 PSI (3.5 bar)</td>
<td>50 PSI (3.5 bar)</td>
<td>50 PSI (3.5 bar)</td>
<td>50 PSI (3.5 bar)</td>
</tr>
<tr>
<td><strong>Water Removal Efficiency</strong></td>
<td>99%</td>
<td>99%</td>
<td>99%</td>
<td>99%</td>
<td>99%</td>
<td>99%</td>
<td>99%</td>
<td>99%</td>
<td>99%</td>
<td>99%</td>
<td>99%</td>
<td>99%</td>
</tr>
<tr>
<td><strong>Rated Temperature Range</strong></td>
<td>-20˚ to 150˚F (-29˚ to 66˚C)</td>
<td>-20˚ to 150˚F (-29˚ to 66˚C)</td>
<td>-20˚ to 150˚F (-29˚ to 66˚C)</td>
<td>-20˚ to 150˚F (-29˚ to 66˚C)</td>
<td>-20˚ to 150˚F (-29˚ to 66˚C)</td>
<td>-20˚ to 150˚F (-29˚ to 66˚C)</td>
<td>-20˚ to 150˚F (-29˚ to 66˚C)</td>
<td>-20˚ to 150˚F (-29˚ to 66˚C)</td>
<td>-20˚ to 150˚F (-29˚ to 66˚C)</td>
<td>-20˚ to 150˚F (-29˚ to 66˚C)</td>
<td>-20˚ to 150˚F (-29˚ to 66˚C)</td>
<td>-20˚ to 150˚F (-29˚ to 66˚C)</td>
</tr>
</tbody>
</table>

* Smaller micron media removes water at a higher flow rate.
Worldwide Filtration Manufacturing Locations

North America
Compressed Air Treatment
Filtration & Separation/Balston
Haverhill, MA
978 858 0505
www.parker.com/balston
Filtration & Separation/Finite
Oxford, MI
248 628 6400
www.parker.com/finitefilter
Purification, Dehydration & Filtration Division
Lancaster, NY
716 685 4040
www.parker.com/pdf
Sales Office
Charlotte, NC
704 921 9303
www.parker.com/pdf

Engine Filtration & Water Purification
Racor
Modesto, CA
209 521 7860
www.parker.com/racor
Racor
Holly Springs, MS
662 252 2656
www.parker.com/racor
Racor
Beaufort, SC
843 846 3200
www.parker.com/racor
Racor – Village Marine Tec.
Gardena, CA
310 516 9911
www.desalination.parker.com

Hydraulic Filtration
Hydraulic Filter
Metamora, OH
419 644 4311
www.parker.com/hydraulicfilter

Process Filtration
Process Advanced Filtration
Oxnard, CA
805 604 3400
www.parker.com/processfiltration

Europe
Compressed Air Treatment
domnick hunter Industrial
England NE
+44 (0) 191 402 9000
www.domnickhunter.com
Hiross Zander
Padova Business Unit
Angelo di Piove Padova, Italy
+39 049 9712 111
www.parker.com/hzd
Hiross Zander
Essen Business Unit
Essen, Germany
T +49 2054 9340, F +49 2054 934164
www.parker.com/hzd
Parker Gas Separations
Etten-Leur, Netherlands
+31 76 508 5300
Engine Filtration & Water Purification
Racor
England
+44 (0) 1924 487000
www.parker.com/rdfe
Racor Research & Development
Stuttgart, Germany
+49 (0)711 7071 290-0
www.parker.com/racor

Hydraulic Filtration
Hydraulic Filter
Arnhem, Holland
+31 26 3760376
www.parker.com/eurofit
Ujrula Operation
Ujrula as Finland
+358 20 753 2500
www.parker.com/fit
Condition Monitoring Center
Norfolk, IP 24 1HP England
+44 1842 763299
www.parker.com/cmc

Process Filtration
domnick hunter Process
DH3 2SF England
T +44 (0) 191 410 5121
www.domnickhunter.com

Asia Pacific
Australia
NSW 2154, Australia
+61 2 9634 777
www.parker.com/australia
China
Shanghai 101206 China
+86 21 5031 2525
www.parker.com/china
India
Mahape, Navi Mumbai 400 709 India
T +91 22 5613 7081, 82, 83, 84, 85
www.parker.com/india
Japan
Yokohama-shi, 244-0003 Japan
T +81 45 870 1522
www.parker.com/japan
Korea
Hwaseong-City Gyeonggi-Do, Korea
T +82 31 359 0771
www.parker.com/korea
Singapore
Singapore 619 702
T +65 6887 6300
www.parker.com/singapore
Thailand
Bangkok 10250 Thailand
T +66 (0) 186 7024
www.parker.com/thailand

Latin America
Parker Comercio Ltda.
Filtration Division
Sao Jose dos Campos
CEP 12225-390 SP Brazil
+55 12 4009 3500
www.parker.com/br
Pan American Division – Miami
Miami, FL
305 470 8800
www.parker.com/panam

Africa
Aeroport Kempton Park
1620 South Africa
+27 11 9610700
www.parker.com/eu

800 344 3286   parker-racor.com/snappmarine