Racor Absolute Series
High Capacity Bypass Oil Cleaning Systems
Engineered to Perform

Revolutionary media and element design is at the heart of every Racor Absolute Oil Cleaner System, and the only way to guarantee absolute filtration effectiveness.

The filter design allows the oil to flow under pressure through 114mm of engineered media with three distinct stages of filtration and water absorption.

The largest particles are retained on the top of the filter 1, making for an excellent diagnostic tool. Smaller particles are trapped in the mid stage 2, and the smallest particles are trapped in the lower and most compressed part of the filter 3.

A card sleeve compresses the lower part of the element to increase the density and a non-woven cloth protects the base and stops particle migration.
INNOVATIVE NEW MEDIA, COMBINED WITH A BREAKTHROUGH ELEMENT DESIGN IS AT THE HEART OF OIL FILTRATION SYSTEMS THAT DELIVER INDUSTRY-LEADING EFFICIENCY.

The Absolute Filter Element is a depth loading design made up of multiple layers of cellulose media.

Importantly, the cellulose media allows water absorption of up to 200 milliliters within the filter, reducing the water concentration in oil to less than 100 parts per million.

Equally noteworthy is the efficiency of the Absolute media in removing resins, metals and oxidation products, all of which are extremely damaging to close-tolerance components.

Racor Absolute Oil Cleaners protect every engine gas or diesel, transmission and hydraulic systems, and come in a range of capacities for every application. Filter elements can be specified in 3, 5 and 10-micron for specific operations.

Manufactured from a specifically-engineered cellulose material wound onto a central core, the Absolute Series element combines theoretical filtration principals to achieve absolute filtration - low flow, low pressure and depth loading axial filtration - flow direction from the top to the bottom.

The Clear Advantage of Absolute Filtration

A common misconception is that regular oil filter replacement is sufficient to keep oil clean – and equipment well protected. But standard spin on oil filters remove only the largest particles of contamination. In other words, oil is almost never as clean it should be – or can be. It’s not absolutely clean.

When the oil is passed through a new spin on oil filter, only solid contamination in the 20-40 micron range is removed. In most applications, this is standard operating procedure. However, the vast majority of damaging solid and liquid contamination is much smaller, 4-7 micron. Real world testing proves the clear superiority of oil filtered by the Absolute System.
Built to Last

The Absolute Series introduces a new standard for system performance and reliability by purifying oils in engine, transmission and hydraulic systems. The top load Absolute Oil Cleaner can be specified for any sump capacity and is easily connected to the corresponding lubricating oil system.

Beyond the filtration of solid particles, the Absolute Series provides important benefits that extend full flow filter life as well as reducing maintenance cost by maximizing water absorption, removal of sludge, resins and soot.

THE CLEAR AND ABSOLUTE BENEFITS

- Removes up to 99% of all solid contaminate
- Reduces the water concentration to less than 200 ppm
- Eliminates damaging resins and oxidation products
- Extends oil change intervals
- 2 to 4 times fewer expensive full flow filter cartridges
- Extends the life of all engine components
- Provides a significant reduction of oil consumption and oil disposal cost
- An important decrease of equipment down time
- Rugged design
- Will not void engine warranty
- Reduces operating cost and increases profits
The intricately channeled base provides a large footprint to fully support the element under pressure, ensuring uniform loading of the element. Ultra-clean oil flows through the channels into the clean oil stream.

The engineered base design at the bottom of the Absolute housing supports the element under high pressure and provides a channeled migration path for clean oil to flow back into the primary oil stream.

Racor offers Parker UL-Rated hose and high quality fittings and adapters.

The Absolute Oil Cleaner is designed as a top load filter, but can be mounted at any angle using the heavy-duty mounting bracket.

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### Specifications

<table>
<thead>
<tr>
<th></th>
<th>ABS10300</th>
<th>ABS10450</th>
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</thead>
<tbody>
<tr>
<td><strong>Maximum Pressure</strong></td>
<td>72.5 PSI (5 bar)</td>
<td>72.5 PSI (5 bar)</td>
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<tr>
<td><strong>Capacity</strong></td>
<td>30 qts (28 L)</td>
<td>50 qts (47 L)</td>
</tr>
<tr>
<td><strong>Port Size (inlet/outlet)</strong></td>
<td>1/4&quot; NPTF</td>
<td>1/4&quot; NPTF</td>
</tr>
<tr>
<td><strong>Dimensions</strong></td>
<td>W6.38 x H12.48 in. (W162 x H317 mm)</td>
<td>W8.03 x H12.64 in. (W204 x H321 mm)</td>
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<tr>
<td><strong>Weight</strong></td>
<td>10 lbs (4.5 kg)</td>
<td>15 lbs (6.8 kg)</td>
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<td><strong>Seal Kit</strong></td>
<td>ABS44235</td>
<td>ABS44250</td>
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**REPLACEMENT FILTERS**

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<td>ABS20330</td>
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<td>ABS20370</td>
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<table>
<thead>
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<tr>
<td>ABS20430</td>
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<tr>
<td>ABS20470</td>
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<tr>
<td>ABS25450</td>
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Rugged construction, easy installation and tool-less service are trademarks of advanced Racor designs.
The benefits of absolute filtration are multiplied as sump or tank volume is increased. Two series of high capacity housings are offered, stainless steel and carbon steel. Capacities range from 100 to 250 quarts, utilizing from two to five Absolute Filter elements. Filter media can be specified in 3, 5 and 10-micron ratings.

These high capacity filtration units are designed to efficiently and cost effectively clean large volumes of lubricating fluids. It combines Racor's unique depth loading filter elements for removal of wear particles, moisture, and sludge in large engine applications. Of note here is the efficiency of the Absolute Series in removing free and emulsified water, a particular problem wherever oils are stored.
ABSOLUTE FILTRATION SYSTEMS FOR HEAVY AND MEDIUM DUTY APPLICATIONS

High Capacity Absolute Series Oil Cleaners are space-efficient, with footprints from just 8” to 19”, and heights from 24” to 50”.

<table>
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<th>Specifications</th>
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<th>ABS11300</th>
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<tbody>
<tr>
<td>Housing Material</td>
<td>Stainless Steel</td>
<td>Stainless Steel</td>
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<tr>
<td>Application Capacity</td>
<td>100 qts (94.6 L)</td>
<td>150 qts (142.0 L)</td>
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<tr>
<td>Port Size</td>
<td>1/2” NPTF</td>
<td>1/2” NPTF</td>
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<tr>
<td>Dimensions</td>
<td>10.6 in. (269 mm) W9.3 x H24.41 in. (W236 x H620 mm)</td>
<td>10.6 in. (269 mm) W9.3 x H30.12 in. (W236 x H765 mm)</td>
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<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>
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<td>Weight</td>
<td>22 lbs (10.0 kg)</td>
<td>28.7 lbs (13.0 kg)</td>
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<td>V-band</td>
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<td>Packing</td>
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<td>O-ring</td>
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High Volume

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<td>Housing Material</td>
<td>Carbon Steel</td>
<td>Carbon Steel</td>
<td>Carbon Steel</td>
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<tr>
<td>Application Capacity</td>
<td>100 qts (94.6 L)</td>
<td>150 qts (142.0 L)</td>
<td>250 qts (236.6 L)</td>
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<td>Port Size</td>
<td>1/2” NPTF</td>
<td>1/2” NPTF</td>
<td>1.0” NPTF</td>
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<tr>
<td>Working Pressure</td>
<td>73 PSI (5.0 bar)</td>
<td>73 PSI (5.0 bar)</td>
<td>73 PSI (5.0 bar)</td>
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<td>Dimensions</td>
<td>10.6 in. (269 mm) W11.81 x H23.62 in. (W300 x H600 mm)</td>
<td>10.6 in. (269 mm) W11.81 x H29.25 in. (W300 x H743 mm)</td>
<td>10.6 in. (269 mm) W18.9 x H50.0 in. (W480 x H1270 mm)</td>
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<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>
<td>(use five) ABS20520 (3 micron) ABS20510 (5 micron) ABS20512 (10 micron)</td>
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<tr>
<td>Weight</td>
<td>40 lbs (18.1 kg)</td>
<td>48.5 lbs (22.0 kg)</td>
<td>196 lbs (89.0 kg)</td>
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<td>Packing Spacer</td>
<td>ABS50072</td>
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<td>O-ring</td>
<td>ABS50082</td>
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<td>ABS50058</td>
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</table>
# Worldwide Filtration Manufacturing Locations

## North America

**Compressed Air Treatment Filteration & Separation/Balston**
Haverhill, MA  
978 858 0505  
www.parker.com/balston

**Finite Airtek Filtration**
Airtrek/domnick hunter/Zander  
Lancaster, NY  
716 686 6400  
www.parker.com/faf

**Finite Airtek Filtration/Finite**
Oxford, MI  
248 628 6400  
www.parker.com/finitefilter

**Engine Filtration & Water Purification**
Racor  
Modesto, CA  
209 521 7860  
www.parker.com/racor

**Holly Springs, MS**
843 846 3200  
www.parker.com/racor

**Parker Sea Recovery**
Carson, CA  
310 637 3400  
www.parkerfarr.com

**Process Filtration domnick hunter Process Filtration**
Oxnard, CA  
805 604 3400  
www.parker.com/processfiltration

**Aerospace Filtration Velcon Filtration**
Colorado Springs, CO  
719 531 5855  
www.velcon.com

## Europe

**Compressed Air Treatment domnick hunter Filtration & Separation**
Gateshead, England  
+44 (0) 191 402 9000  
www.parker.com/dhfns

**Parker Gas Separations**
Etten-Leur, Netherlands  
+31 76 508 5300  
www.parker.com/dhfns

**Hiross Zander**
Padova Business Unit  
Padova, Italy  
+39 049 9712 111  
www.parker.com/hzd

**Hiross Zander**
Essen Business Unit  
Essen, Germany  
+49 2054 9340  
www.parker.com/hzd

**Engine Filtration & Water Purification**
Racor  
Dewsbury, England  
+44 (0) 1924 487 000  
www.parker.com/rfde

**Racor Research & Development**
Stuttgart, Germany  
+49 (0)711 7071 290-10  
www.parker.com/rfde

**Hydraulic Filtration**
Hydraulic Filter  
Arnhem, Holland  
+31 26 3760376  
www.parker.com/hfde

**Urajla Operation**
Urajla, Finland  
+358 20 753 2500  
www.parker.com/hfde

**Condition Monitoring Centre**
Norfolk, England  
+44 (0) 1842 763 299  
www.parker.com/hfde

**Parker Kittiwake**
West Sussex, England  
+44 (0) 1903 731 470  
www.kittiwake.com

**Parker Procal**
Peterborough, England  
+44 (0) 1733 232 495  
www.kittiwake.com

**Process Filtration domnick hunter Process Filtration**
Birtley, England  
+44 (0) 191 410 5121  
www.parker.com/processfiltration

**Parker Twin Filter BV**
Zaandam, Netherlands  
+31(0)75 655 50 00  
www.twintfilter.com

## Asia Pacific

**Australia**
Castle Hill, Australia  
+61 2 9634 7777  
www.parker.com/australia

**China**
Shanghai, China  
+86 21 5031 2525  
www.parker.com/china

**India**
Navi Mumbai, India  
+91 22 651 370 8185  
www.parker.com/india

**Parker Fowler**
Bangalore, India  
+91 80 2783 6794  
www.johnfowlerindia.com

**Japan**
Tokyo, Japan  
+81 45 870 1522  
www.parker.com/japan

**Parker Techno**
Osaka, Japan  
+81 66 340 1600  
www.techno.taiyo-ltd.co.jp

**Korea**
Hwaseon-City  
+82 31 359 0852  
www.parker.com/korea

**Singapore**
Jurong Town, Singapore  
+65 6887 6300  
www.parker.com/singapore

**Thailand**
Bangkok, Thailand  
+66 2186 7000  
www.parker.com/thailand

## Latin America

**Parker Comercio Ltda. Filtration Division**
Sao Paulo, Brazil  
+55 12 4009 3500  
www.parker.com/br

**Pan American Division**
Miami, FL  
305 470 8800  
www.parker.com/panam

## Africa

**Aeroport Kempton Park, South Africa**
+27 11 9610700  
www.parker.com/africa

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