Bypass Oil Cleaners
Racor Absolute Series
Racor Absolute Bypass Oil Cleaner
Unique Bypass Oil Cleaning System

The filter design forces the oil to flow through 114 mm of filtration media and to pass through 3 stages of different densities. The bigger particles are retained on the top of the filter, (a very good diagnostic tool) smaller particles are trapped (50 to 5 micron) in the first stage, and the smallest particles (<5 micron) are trapped in the lower compressed part of the filter. 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.

The Racor Absolute Filter
The Absolute replacement filter 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).

A card sleeve compresses the lower part to increase the density. A non-woven cloth protects the base and stops particle and media migration.

Racor Absolute is a unique oil cleaning system that puts theoretical filtration principles and mechanisms into practice. Low flow, low pressure, and axial filtration combined with special cellulose filter material enables us to achieve ultimate filtration.
Racor Absolute Oil Cleaner
Plays an Active Part in Every Engine Application

Specifications

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

Replacement Parts and Filters

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABS44235</td>
<td>Seal Service Kit (for ABS10300)</td>
</tr>
<tr>
<td>ABS44250</td>
<td>Seal Service Kit (for ABS10450)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ABS10300</th>
<th>ABS10450</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABS20330</td>
<td>3 micron filter (Green)</td>
</tr>
<tr>
<td>ABS20370</td>
<td>5 micron filter (Blue)</td>
</tr>
<tr>
<td>ABS25350</td>
<td>10 micron filter (Orange)</td>
</tr>
<tr>
<td>ABS20430</td>
<td>3 micron filter (Green)</td>
</tr>
<tr>
<td>ABS20470</td>
<td>5 micron filter (Blue)</td>
</tr>
<tr>
<td>ABS25450</td>
<td>10 micron filter (Orange)</td>
</tr>
</tbody>
</table>

Mounting Bracket Bolt Pattern
**SU Series High Volume**

Stainless Steel Housing (multi-filter)

### Specifications ABS11200

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Housing Material</td>
<td>Stainless Steel</td>
</tr>
<tr>
<td>Application Capacity</td>
<td>94.6 L (100 qt)</td>
</tr>
<tr>
<td>Port Size (inlet/outlet/drain)</td>
<td>1/2” NPT</td>
</tr>
<tr>
<td>Working Pressure</td>
<td>120 PSI</td>
</tr>
<tr>
<td>Dimensions</td>
<td>W210 x D269 x H620 mm (W9.3 x D10.6 x H16.1 in.)</td>
</tr>
<tr>
<td>Replacement Filters</td>
<td>(requires two) ABS20430 (3 micron), ABS20470 (5 micron), ABS25450 (10 micron)</td>
</tr>
<tr>
<td>Weight</td>
<td>10.0 kg (22 lbs)</td>
</tr>
</tbody>
</table>

### Replacement Parts

- ABS44090 Seal Service Kit
- ABS50030 V-band Kit
- ABS50068 Nut and Bolt Kit
- ABS50070 Packing
- ABS50057 O-ring

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**SU Series High Volume**

Carbon Steel Housing (multi-filter)

### Specifications ABS11300

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Housing Material</td>
<td>Stainless Steel</td>
</tr>
<tr>
<td>Application Capacity</td>
<td>142.0 L (150 qt)</td>
</tr>
<tr>
<td>Port Size (inlet/outlet/drain)</td>
<td>1/2” NPT</td>
</tr>
<tr>
<td>Working Pressure</td>
<td>120 PSI</td>
</tr>
<tr>
<td>Dimensions</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>(requires three) ABS20430 (3 micron), ABS20470 (5 micron), ABS25450 (10 micron)</td>
</tr>
<tr>
<td>Weight</td>
<td>13.0 kg (28.7 lbs)</td>
</tr>
</tbody>
</table>

### Replacement Parts

- ABS44090 Seal Service Kit
- ABS50030 V-band Kit
- ABS50070 Packing
- ABS50057 O-ring
SS Series High Volume
Carbon Steel Housing (multi-filter)

Specifications

**ABS11400**

<table>
<thead>
<tr>
<th>Housing Material</th>
<th>Carbon Steel</th>
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</thead>
<tbody>
<tr>
<td>Application Capacity</td>
<td>94.6 L (100 qt)</td>
</tr>
<tr>
<td>Port Size (inlet/outlet/drain)</td>
<td>1/2&quot; NPTF</td>
</tr>
<tr>
<td>Working Pressure</td>
<td>5 bar (73 PSI)</td>
</tr>
<tr>
<td>Dimensions</td>
<td>W300 x H600 mm (W11.81 x H23.62 in.)</td>
</tr>
<tr>
<td>Replacement Filters</td>
<td>requires two</td>
</tr>
<tr>
<td></td>
<td>ABS20430 (3 micron), ABS20470 (5 micron)</td>
</tr>
<tr>
<td>Weight</td>
<td>18.1 kg (40 lbs)</td>
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</table>

**ABS11410**

<table>
<thead>
<tr>
<th>Housing Material</th>
<th>Carbon Steel</th>
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<tbody>
<tr>
<td>Application Capacity</td>
<td>142.0 L (150 qt)</td>
</tr>
<tr>
<td>Port Size (inlet/outlet/drain)</td>
<td>1/2&quot; NPTF</td>
</tr>
<tr>
<td>Working Pressure</td>
<td>5 bar (73 PSI)</td>
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<tr>
<td>Dimensions</td>
<td>W300 x H743 mm (W11.81 x H29.25 in.)</td>
</tr>
<tr>
<td>Replacement Filters</td>
<td>requires three</td>
</tr>
<tr>
<td></td>
<td>ABS24030 (3 micron), ABS20470 (5 micron), ABS25450 (10 micron)</td>
</tr>
<tr>
<td>Weight</td>
<td>22 kg (48.5 lbs)</td>
</tr>
</tbody>
</table>

Replacement Parts

- **ABS44080**: Seal Service Kit
- **ABS50082**: O-ring Kit
- **ABS50072**: Packing Spacer
- **ABS50068**: Suppression Nut

- **ABS4080**: Seal Service Kit
- **ABS50082**: O-ring Kit
- **ABS50072**: Packing Spacer
- **ABS50068**: Bolt and Nut Kit
### Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>ABS10515</th>
</tr>
</thead>
<tbody>
<tr>
<td>Housing Material</td>
<td>Carbon Steel</td>
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<tr>
<td>Application Capacity</td>
<td>236.6 L (250 qt)</td>
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<tr>
<td>Port Size (inlet/outlet/drain)</td>
<td>1” NPTF</td>
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<tr>
<td>Working Pressure</td>
<td>5 bar (73 PSI)</td>
</tr>
<tr>
<td>Dimensions</td>
<td>W480 x H1270 mm (W18.9 x H50.0 in.)</td>
</tr>
<tr>
<td>Replacement Filters</td>
<td>(requires five)</td>
</tr>
<tr>
<td></td>
<td>ABS20520 (3 micron)</td>
</tr>
<tr>
<td>Weight</td>
<td>86.6 kg (191 lbs)</td>
</tr>
</tbody>
</table>

### Replacement Parts

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABS44080</td>
<td>Seal Service Kit</td>
</tr>
<tr>
<td>ABS50058</td>
<td>O-ring Kit</td>
</tr>
</tbody>
</table>

![Image of the equipment]
Filter Condition

Check Engine Condition By Viewing Filter

Filter change cycle depends on equipment use and environmental conditions. To maintain oil cleanliness level to within manufacturers recommendations, change filter whenever hours or distance driven is within oil drain interval. X series filters will last up to 40% longer so intervals should be adjusted to reflect longer filter life.

1. When filter functions normally: There is a slight amount of carbon, based on this visual inspection, the filter is being changed appropriately and there is no engine trouble.

2. When metallic particles are found on the surface it is an indication of engine wear occurring due to metal to metal contact. Further monitoring or inspection is necessary.

3. A filter with visual cracks in the media are an indication of coolant or excessive moisture in the engine. Further inspection or monitoring is necessary to prevent severe engine damage.

4. Large amounts of soot or carbon build up are an indication of long idle times, poor engine combustion, over heating, moisture causing high viscosity or over extension of the oil change interval.

NOTE: Always use engine oil analysis to monitor the condition of the engine and lube oil when extending oil drain intervals.

Selection Guide of Units Required
Based on Pentane insoluble.

LFS RK760
Lube Oil Analysis Kit Spectrochemical Analysis of up to 22 Trace Elements

Time Frame: 3 to 11 days, web page reporting is available.
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