



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



# Bypass Oil Cleaners

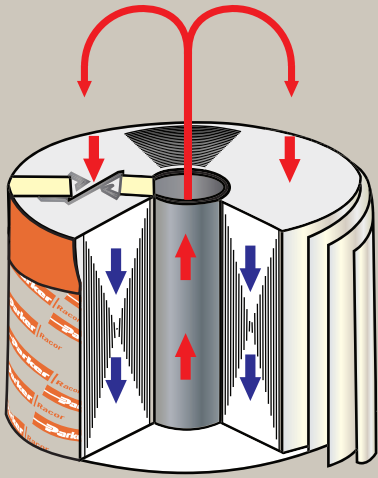
Absolute Series



ENGINEERING YOUR SUCCESS.

# Racor Absolute Bypass Oil Cleaner

## Unique Bypass Oil Cleaning System



### Racor Bypass Oil Cleaner Benefits

- Removing up to 99% of all solid contaminants.
- Reducing the water concentration to less than 100 ppm.
- Eliminating resins and oxidation products.
- Longer life for engine components.
- Significant reduction of oil consumption and oil disposal cost.
- 2 to 4 times fewer expensive full flow filter cartridges.
- An important decrease of equipment down time.
- Reduce operating cost.
- Increase profit.

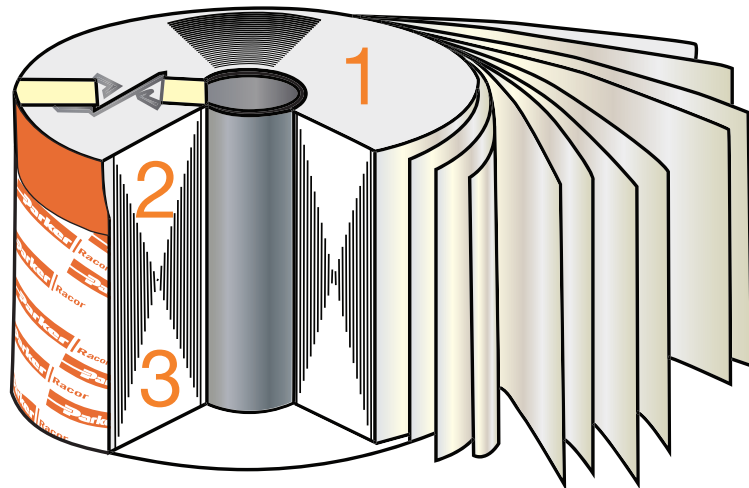
The filter design forces the oil to flow through 114 mm of filtration media and to pass through 3 stages of different densities. The bigger particles are retained on the top of the filter, (a very good diagnostic tool) smaller particles are trapped (50 to 5 micron) in the first stage, and the smallest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



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.

### Features

- **Solid partial filtration**
- **Water absorption**
- **Sludge, resin, and oxidation absorption**

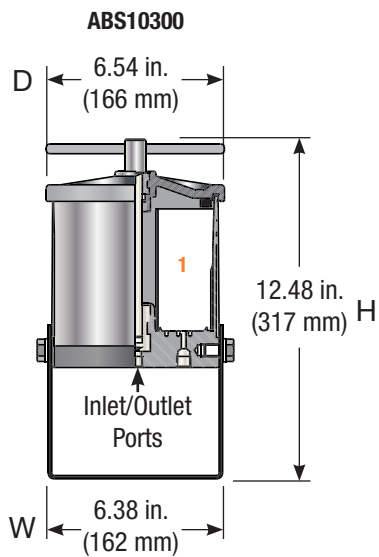
### The Racor Absolute Filter

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 Oil Cleaner

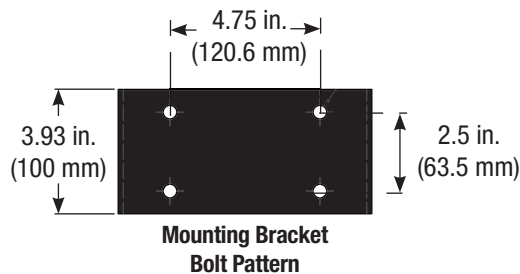
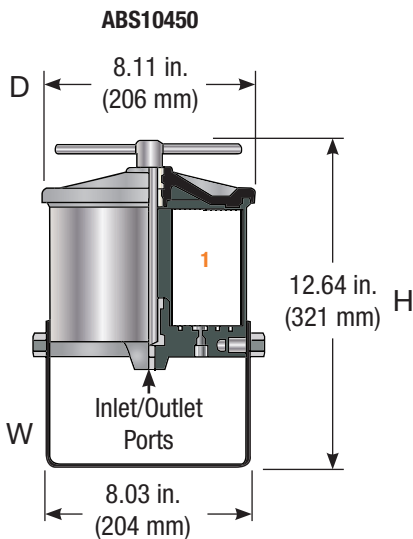
## Plays an Active Part in Every Engine Application



Specifications	ABS10300	ABS10450
Maximum Pressure	180 PSI (12.4 bar)	180 PSI (12.4 bar)
Capacity	30 qts (28 L)	50 qts (47 L)
Port Size (inlet/outlet)	1/4" NPTF	1/4" NPTF
Dimensions	W6.38 x D6.54 x H12.48 in. (W162 x D166 x H317 mm)	W8.03 x D8.11 x H12.64 in. (W204 x D206 x H321 mm)
Weight	10 lbs (4.5 kg)	15 lbs (6.8 kg)

### Replacement Parts List

<b>ABS44030</b>	Seal Service Kit (for ABS10300)
<b>ABS44045</b>	Seal Service Kit (for ABS10450)



### Replacement Filters



<b>ABS10300</b>	
ABS20330	3 micron filter (Green)
ABS20370	5 micron filter (Blue)
ABS25350	10 micron filter (Orange)
<b>ABS10450</b>	
ABS20430	3 micron filter (Green)
ABS20470	5 micron filter (Blue)
ABS25450	10 micron filter (Orange)

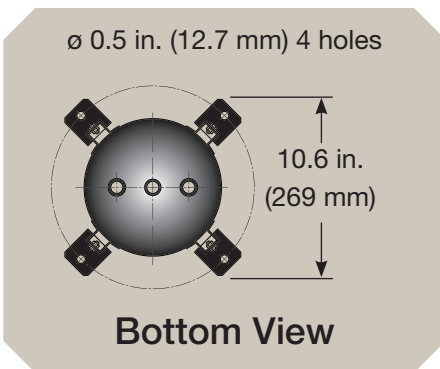
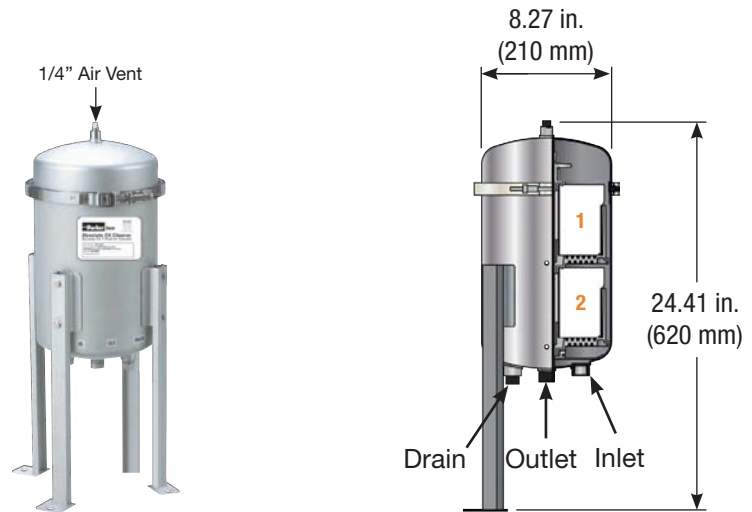


# SU Series High Volume Stainless Steel Housing (multi filter)

Specifications	ABS11200
Housing Material	Stainless Steel
Capacity	100 qt (94.6 L)
Port Size (inlet/outlet/drain)	1/2" NPT
Working Pressure	120 PSI (0.8 MPa)
Dimensions	W9.3 x D10.6 x H16.1 in. (W210 x D269 x H620 mm)
Replacement Filters	(requires two) ABS20430 (3 micron), ABS20470 (5 micron) ABS25450 (10 micron)
Weight	22 lbs (10.0 kg)

## Replacement Parts

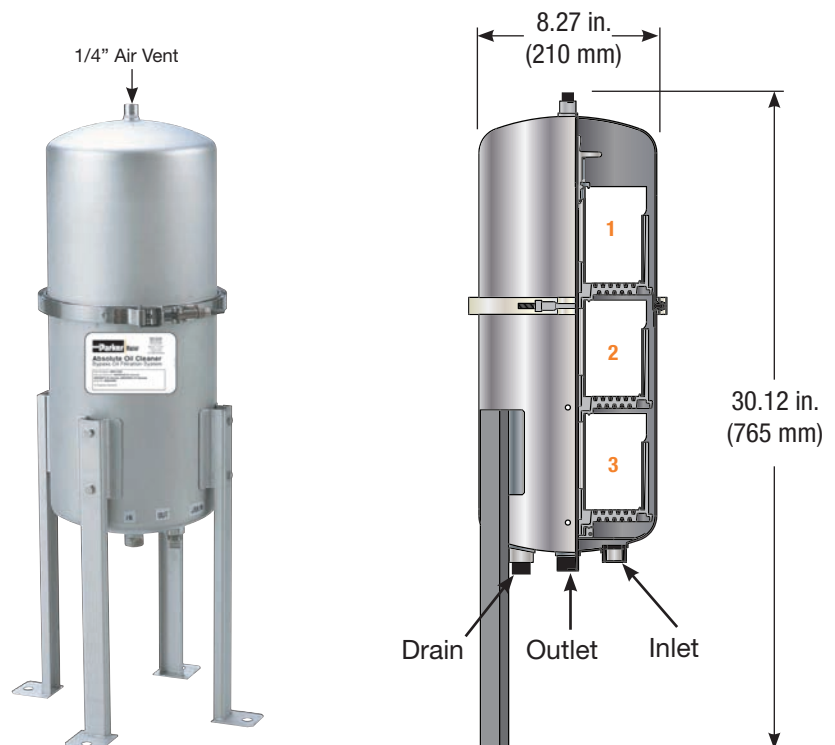
ABS44090	Seal Service Kit
ABS50030	V-band Kit
ABS50068	Nut and Bolt Kit
ABS50070	Packing
ABS50057	O-ring



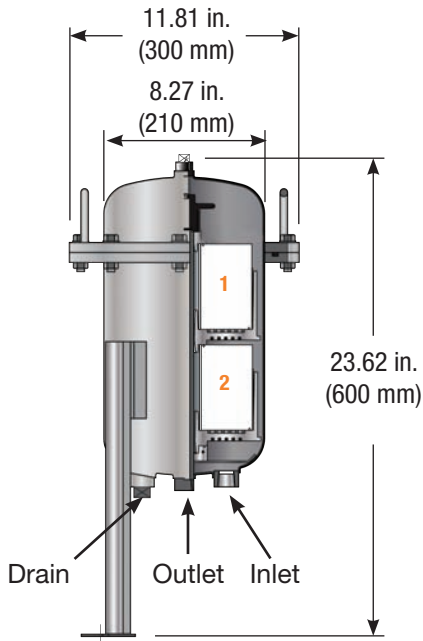
Specifications	ABS11300
Housing Material	Stainless Steel
Capacity	150 qt (142.0 L)
Port Size (inlet/outlet/drain)	1/2" NPT
Working Pressure	120 PSI (0.8 MPa)
Dimensions	W9.3 x D10.6 x H30.0 in. (W236 x D269 x H762 mm)
Replacement Filters	(requires three) ABS20430 (3 micron), ABS20470 (5 micron), ABS25450 (10 micron)
Weight	28.7 lbs (13.0 kg)

## Replacement Parts

ABS44090	Seal Service Kit
ABS50030	V-band Kit
ABS50070	Packing
ABS50057	O-ring



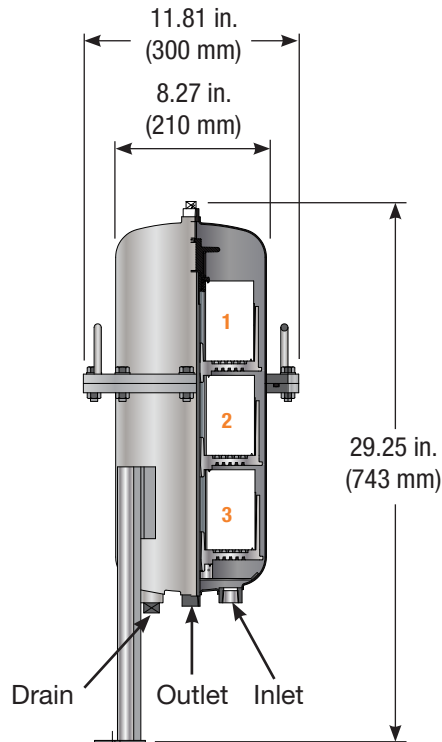
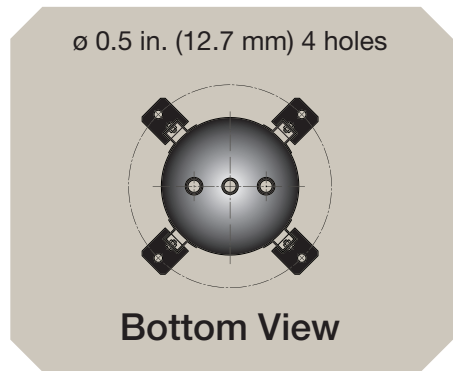
# SS Series High Volume Carbon Steel Housing (multi filter)



Specifications	ABS11400
Housing Material	Carbon Steel
Capacity	100 qt (94.6 L)
Port Size (inlet/outlet/drain)	1/2" NPTF
Working Pressure	72.5 PSI (0.5 MPa)
Dimensions	W11.81 x H23.62 in. (W300 x H600 mm)
Replacement Filters	(requires two) ABS20430 (3 micron), ABS20470 (5 micron) ABS25450 (10 micron)
Weight	40 lbs (18.1 kg)

## Replacement Parts

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



Specifications	ABS11410
Housing Material	Carbon Steel
Capacity	150 qt (142.0 L)
Port Size (inlet/outlet/drain)	1/2" NPTF
Working Pressure	72.5 PSI (0.5 MPa)
Dimensions	W11.81 x H29.25 in. (W300 x H743 mm)
Replacement Filters	(requires three) ABS24030 (3 micron) ABS20470 (5 micron), ABS25450 (10 micron)
Weight	48.5 lbs (22 kg)

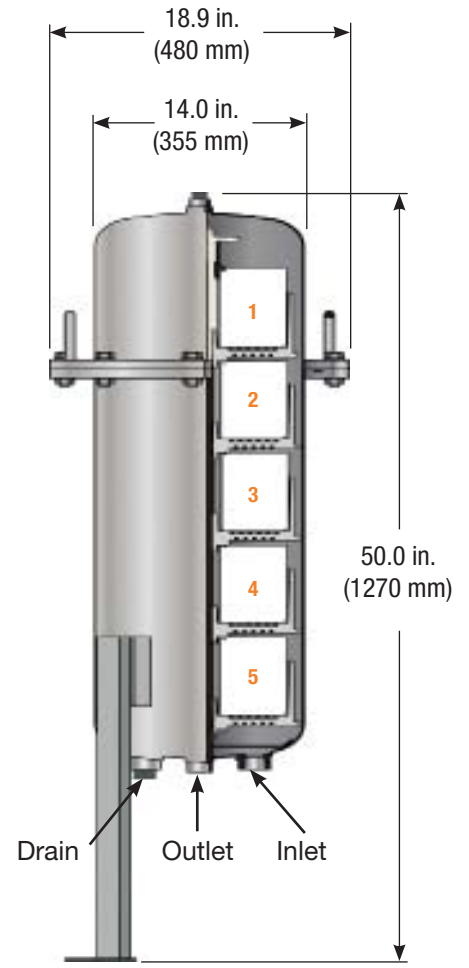
## Replacement Parts

ABS44080	Seal Service Kit
ABS50082	O-ring Kit
ABS50072	Packing Kit
ABS50068	Bolt and Nut Kit

Specifications	ABS10515
Housing Material	Carbon Steel
Capacity	250 qt (236.6 L)
Port Size (inlet/outlet/drain)	1/2" NPTF
Working Pressure	72.5 PSI (0.5 MPa)
Dimensions	W18.9 x H50.0 in. (W480 x H1270 mm)
Replacement Filters	(requires five) ABS20520 (3 micron)
Weight	191 lbs (86.6 kg)

### Replacement Parts

ABS44080	Seal Service Kit
ABS50058	O-ring Kit



# 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 manufactures 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.

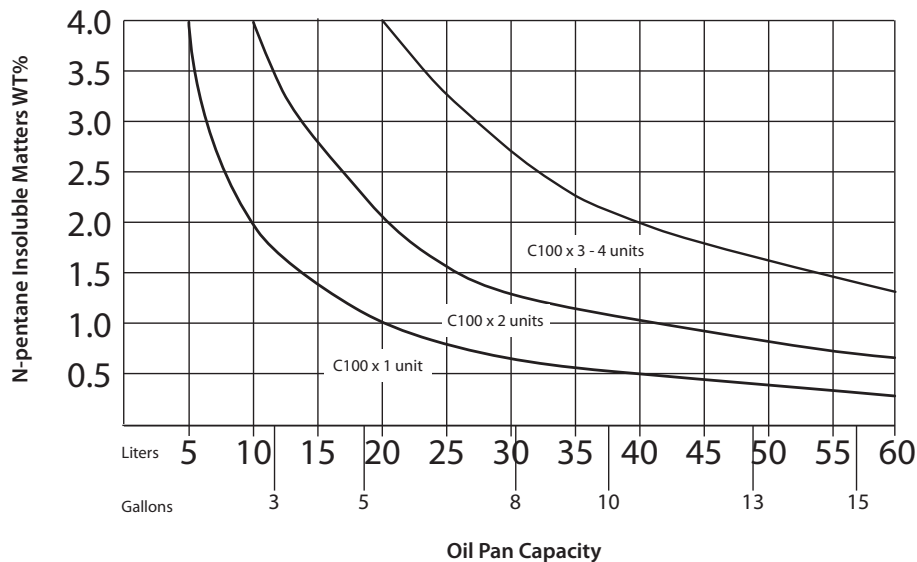


*NOTE: Always use engine oil analysis to monitor the condition of the engine and lube oil when extending oil drain intervals.*

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.

## 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.

DISTRIBUTED BY:



***BOLLAND  
MACHINE***

A DIVISION OF DIESEL ENGINE PARTS WAREHOUSE INC.

**Contact Us for Product Information  
or to Place an Order**

**Phone** 724-846-1290

**Fax** 724-846-5253

**Email** *kevin@bollandmachine.com*

**Address** 2718 Darlington Road  
Beaver Falls, PA 15010

**[www.bollandmachine.com](http://www.bollandmachine.com)**