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sealing & shielding



Racor Absolute Series

High Capacity Bypass Oil Cleaning Systems



ENGINEERING YOUR SUCCESS.

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 contaminants
- 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



RUGGED CONSTRUCTION, EASY INSTALLATION AND TOOL-LESS SERVICE ARE TRADEMARKS OF ADVANCED RACOR DESIGNS.

Tool-less access and easy service via the classic Racor T-handle.

A multi-layered engineered cellulose media presents a massive surface area to remove solid contamination and emulsified water. The result is both exceptional dirt holding capacity and removal of water concentration to less than 200 parts per million.

Racor offers 3, 5, 10 micron replacement elements to further tailor to filtrations needs. No other company offers so many choices.

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.



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.



Specifications	ABS10300	ABS10450
Maximum Pressure	72.5 PSI (5 bar)	72.5 PSI (5 bar)
Capacity	30 qts (28 L)	50 qts (47 L)
Port Size (inlet/outlet)	1/4" NPTF	1/4" NPTF
Dimensions	W6.38 x H12.48 in. (W162 x H317 mm)	W8.03 x H12.64 in. (W204 x H321 mm)
Weight	10 lbs (4.5 kg)	15 lbs (6.8 kg)
Seal Kit	ABS44235	ABS44250

REPLACEMENT FILTERS



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

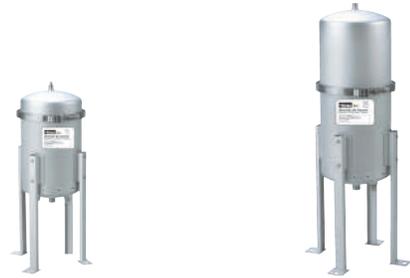
Ultimate Capacity

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 Racors 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

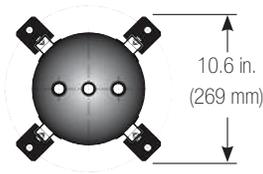


High Volume

Specifications	ABS11200	ABS11300
Housing Material	Stainless Steel	Stainless Steel
Application Capacity	100 qts (94.6 L)	150 qts (142.0 L)
Port Size	1/2" NPTF	1/2" NPTF
Dimensions	W9.3 x H24.41 in. (W236 x H620 mm)	W9.3 x H30.12 in. (W236 x H765 mm)
Replacement Filters	(use two) ABS20430 (3 micron) ABS20470 (5 micron) ABS25450 (10 micron)	(use three) ABS20430 (3 micron) ABS20470 (5 micron) ABS25450 (10 micron)
Weight	22 lbs (10.0 kg)	28.7 lbs (13.0 kg)
V-band	ABS50030	ABS50030
Packing	ABS50070	ABS50070
O-ring	ABS50057	ABS50057

Footprint

ø 0.5 in. (12.7 mm) 4 holes



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

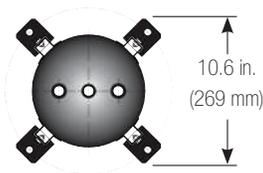


High Volume

Specifications	ABS11400	ABS11410	ABS10515
Housing Material	Carbon Steel	Carbon Steel	Carbon Steel
Application Capacity	100 qts (94.6 L)	150 qts (142.0 L)	250 qts (236.6 L)
Port Size	1/2" NPTF	1/2" NPTF	1.0" NPTF
Working Pressure	73 PSI (5.0 bar)	73 PSI (5.0 bar)	73 PSI (5.0 bar)
Dimensions	W11.81 x H23.62 in. (W300 x H600 mm)	W11.81 x H29.25 in. (W300 x H743 mm)	W18.9 x H50.0 in. (W480 x H1270 mm)
Replacement Filters	(use two) ABS20430 (3 micron) ABS20470 (5 micron) ABS25450 (10 micron)	(use three) ABS20430 (3 micron) ABS20470 (5 micron) ABS25450 (10 micron)	(use five) ABS20520 (3 micron) ABS20510 (5 micron) ABS20512 (10 micron)
Weight	40 lbs (18.1 kg)	48.5 lbs (22.0 kg)	196 lbs (89.0 kg)
Packing Spacer	ABS50072	ABS50072	-
O-ring	ABS50082	ABS50082	ABS50058

Footprint

ø 0.5 in. (12.7 mm) 4 holes



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www.parker.com/balston

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Finite Airtek Filtration/Finite
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