

How Racor Turbine Series Filters Work

Racor Turbine Filters are designed to be installed on the vacuum side of the fuel transfer pump for best efficiency and to best protect precision engine components from fuel-borne dirt, rust, algae, asphaltines, varnishes, and especially water, which is prevalent in engine fuels.

They remove these contaminants from fuel utilizing a patented **3-stage process** to produce the cleanest fuel for your engine:

Separation occurs in the lower chamber where the fuel flows in a spiraling direction (centrifugal action), spinning off larger solids and liquid water droplets which fall to the bottom of the collection bowl. Although the turbine has no moving parts, over 30% of the contaminants are removed here.

Coalescing of still smaller water droplets and solids occurs on the specially designed conical baffle and cartridge element. When heavy enough, they too fall into the collection bowl.

Finally, in the upper chamber, **Filtration** by Racor's proprietary Aquabloc™ water repelling filter element achieves near 100% removal of any remaining microscopic dirt, bacteria, slime or water particles.

This is an extremely high efficiency rating compared to Racor's competitors' 80% to 90% efficiencies.

All Racor turbine filters are equipped with convenient water drain plugs and are designed so filter elements can be changed quickly. Proper priming eliminates the need to bleed the fuel lines afterwards.