

1000FH30

Turbine Series Fuel Filter Water Separator
On T3W Water Well Drill

Market Application Publication



Application:

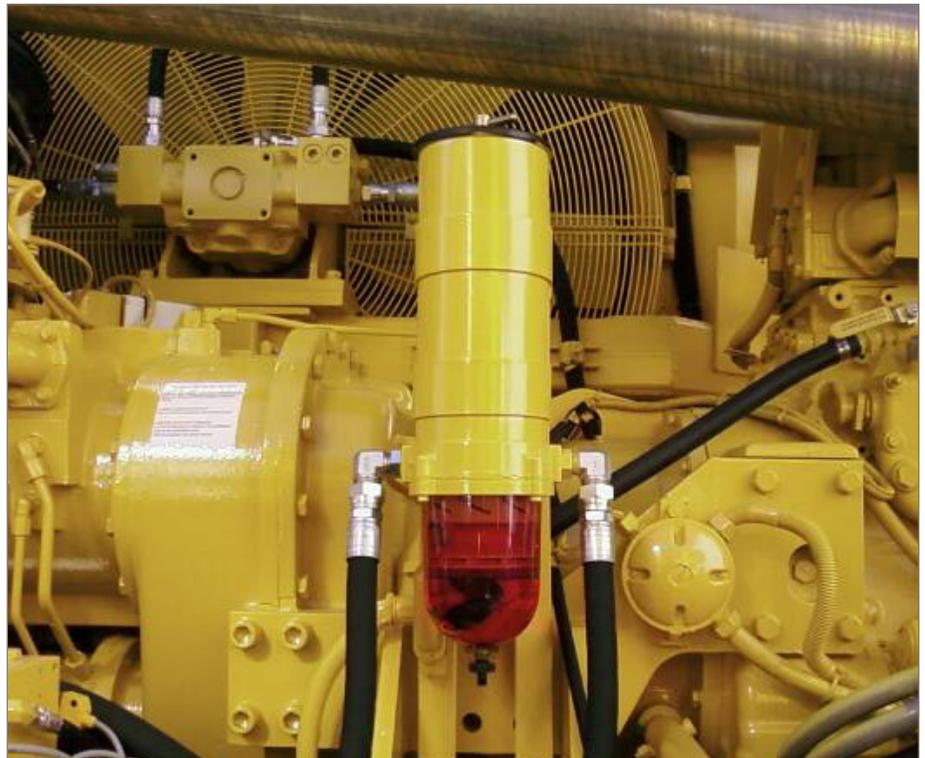
The customer's drilling systems have had a major impact on the drilling community worldwide and set the standard for quality, longevity, reliability and performance. The T3W is set right in the middle of the customer's water well drilling product line.

The Problem:

Due to poor engine performance, the customer needed to reduce power or shut off their equipment. Once drilling has started, the drilling rig must continue running non stop day and night. The customer was looking for a filtration option that would eliminate equipment failures by catching contaminants prior to reaching their drill engines.

The Solution:

1000FH30 Fuel Filter Water Separator.



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Why Racor was chosen as the solution:

Racor's reputation for superior performance and durability made Racor's 1000FH30 an easy choice to solve this problem. The design of the 1000FH30 provides a highly effective 30 micron fuel filter, which removes contaminants before they can reach engine fuel systems.

The 1000FH30 also includes a clear bowl which allows the customer's end user to spot accumulating water and potential contaminants before they are able to reach the downstream filtration elements. This extends filter element life while increasing fuel system performance.

- Heavy duty construction.
- Installs quickly.
- Available in 2, 10, and 30 micron.



ENGINEERING YOUR SUCCESS.

Specifications	1000FH
Maximum Flow Rate	180 GPH (681 LPH)
Height	22 in. (559 mm)
Width	6 in. (152 mm)
Depth	7 in. (178 mm)
Weight	10 lbs (4.5 kg)
Port Size Standard	7/8" - 14 UNF
(Option) Clean Pressure	22 mm x 1.5 0.49 PSI
Drop	3.4 kPa
Maximum	15 PSI
Operating Pressure	103 kPa
Element Number	2020
Element Removal Clearance	10 in. (254 mm)



How the solution works:

Turbine Series filter assemblies protect precision engine components from dirt, rust, algae, asphaltines, varnishes and water, which are prevalent in engine fuels. The filters remove contaminants from fuel using the following legendary three stage process.

Stage One Separation:

As fuel enters the filter assembly, it moves through the centrifuge and spins off large solids and water droplets which fall to the bottom of the collection bowl.

Stage Two Coalescing:

Small water droplets bead-up on the surface of the conical baffle and cartridge element. When heavy enough, they fall to the bottom of the bowl.

Stage Three Filtration:

Proprietary Aquabloc®II cartridge elements repel water and remove contaminants from fuel down to two micron (nominal). They are waterproof and effective longer than water absorbing elements.