

Application Case Study



LIQUID PROCESS FILTERS GRAVER TECHNOLOGIES 1-888-353-0303

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ACS-003

MBF Filters Excel in Ethanol Plant

Application:	Ethanol Plant RO Prefiltration
Current Product Used:	GE Osmonics Hytrex and Puretrex
Graver Product:	Graver Technologies MBF 1-40NN

Discussion:

An ethanol production plant required RO treated water for their boilers, cooling towers, and fermentation process. In all cases the incoming water was first treated by an RO membrane. Additional post RO treatment was then used to meet the water quality requirements of the end use of the water. For example, polishing softeners were used as a secondary treatment for the boiler water.

To protect the RO membranes from fouling, depth filters were selected as RO prefilters. The RO prefilters are used to remove incoming sediment and particulate from the source water and to reduce the silt density index of the water.

Results

- Graver MBF series filters provide excellent protection of the RO membranes.
- Efficiency of the Graver MBF filters matched the performance of the GE Osmonics products.
- MBF series filters provided the best value for the ethanol plant considering cost and efficiency.