

ULTRAPURE WATER TREATMENT

Deionized Water Treatment

Industry:	Chlor Alkali
System:	500 gpm Advance Amberpack™ DI (ADI) backwash tube filter
Location:	Nekoosa, WI
Goals:	Lower operating cost, increase quality, decrease footprint

Project Overview:

SAMCO is the North American licensee of Rohm and Haas proprietary technology—Advance Amberpack™ DI. Advance Amberpack™ is the most advanced demineralization system available today. With yields up to 99%, Advance Amberpack™ (ADI) offers up to 35% savings in cost of chemicals and operation. All this while providing high quality water, 1 megohm or better. Since it is modularized in a small footprint installation is quick and simple.

In addition to the demineralization, SAMCO also provided as part of the integrated system our proprietary back washable tube filter. The tube filter is a back washable candle filter that can provide filtration down to 1 microns. Multiple candles are arranged in an array with actuated valves to provide automated backwash based on variable pressure drop. SAMCO provided this as a post treatment option to guard against infiltration of fines and other particles. The tube filter provides high quality filtration in a small footprint and low backwash rates when compared to traditional multi-media approaches.

SAMCO offers pre-engineered, integrated modular/skid mounted and automated systems along with start up and support out of our state of the art manufacturing facility in Buffalo, NY.

Critical Issues:

- ◆ Fast track project due to production needs
- ◆ Modular design to limit installation cost and time
- ◆ High quality requirements
- ◆ Customized materials to match standards

Vision for Solution:

- ◆ Replace old equipment with most current technology
- ◆ Lower operating costs
- ◆ Make more efficient use of space
- ◆ Increase quality
- ◆ High Yield
- ◆ Automation and simplicity of operation

Project Scope:

- ◆ System design
- ◆ Manufacturing
- ◆ Start-up and commissioning
- ◆ Technical support

Equipment Description:

- ◆ Advance Amberpack DI
- ◆ Distribution pumps
- ◆ Process Controls
- ◆ Chemical Feed
- ◆ Neutralization
- ◆ Tube Filter Guard Beds

Special Features:

- ◆ Advanced Amberpack
- ◆ Tube Filters



250 GPM in a compact package



Advanced Amberpack with tube filter