

ULTRAPURE WATER TREATMENT

RO System for Juice Manufacturing

Industry: Food and Beverage
System: 25 gpm Pure Water System
Location: New York
Goals: 2.5+ micromhos-cm High Purity Water

Project Overview:

SAMCO's state-of-the-art High Purity Water System, installed at a leading cranberry juice manufacturing & bottling facility, utilizes Pre-Filter, Activated Carbon & Reverse Osmosis (RO) to purify well water to high purity levels. The pre-filter, RO pressure vessels and sanitary product piping are made of high grade stainless steel. It is designed to meet water quality standards for Food & Beverage industry.

Critical Issues:

2.5+ micromhos-cm quality high purity water Critical application needing high uptime
Fast-track project, concept to completion Minimize operator attention

Vision for Solution:

- RO for consistent high quality water with superior removal of TDS, silica & organic compounds
- Pre-Filter & Activated Carbon to remove suspended solids & free chlorine
- Utilize our standard products & pre-packaged system design for fast-track project delivery and performance guarantee
- PLC controlled system for minimum operator attention

Project Scope:

Detailed Design/Engineering System Fabrication
Controls Integration Commission/Startup/Training

Equipment Description:

Cartridge Pre-Filter Activated Carbon Filter
Antiscalant Feed Reverse Osmosis (RO)
PLC Controls

Special Features:

- PLC controlled system enables automation for minimal operator attention
- Process monitoring include flow, temperature, pressure, resistivity, etc.
- Stainless steel RO pressure vessels and cartridge filters
- Sanitary stainless steel piping for RO permeate
- Modular expandability and future add-on capability for changing needs

