

CASE STUDY

RO-500 Series

Industrial Brackish Water RO System for Food Processing



Web: www.pureaqua.com

Email: sales@pureaqua.com

Phone: +1 (714) 432-9996

Toll Free: +1 (844) 309-7501



Made in USA

 **PURE AQUA, INC.**[®]



Industrial Brackish Water RO System for Food Processing

Country: Peru | **Capacity:** 144,000 GPD

Challenge

Food processing plants are mandated to fulfill many different policy standards regulated by the U.S. Department of Agriculture (USDA) and the Food and Drug Administration (FDA). From food safety to sanitary prevention, almost every step of the process incorporates water in one way or another. The water supplied to these facilities generally varies depending on locality. However, this customer already had a reverse osmosis purification system and was interested in increasing their recovery rate. For this reason, the reject stream from their initial RO system with 17,800 PPM TDS was intended to be treated to optimize recovery product.

Solution

This industrial brackish water RO system was recommended to thoroughly purify the high concentrate of contaminants from an RO reject stream. Due to the water source for this project, there is no pre-treatment necessary. The water is fed into the RO membranes to optimize water production from these systems and collectively produce less reject overall. These RO systems deliver high performance at low life-cycle costs, saving on energy and increasing proficiency. Our pre-engineered systems are manufactured and built with high quality components designed specifically for water purification. A clean in place (CIP) system, which cleans brackish water RO membranes every 18 to 24 months, was also included. This system was compactly assembled and mounted onto a skid to facilitate mobility.

Applied System

This system included an RO model #**BW-200K-4780** from our **RO-500 Series**.

Project Video



Features

- (4) FRP pressure vessels Codeline rated at 600 PSI
- (28) 8" TFC spiral wound membranes Hydranautics model CPA5-LD
- Low- & high-pressure switches
- (2) Flow meters for reject and product line
- High pressure pump FEDCO with 75 HP motor
- 5-micron pre-filter with SS housing (SSC-48-316)
- PLC control panel (Siemens S7-1200).
- High pressure piping in SS 316 and low-pressure piping in SCH 80 PVC
- Integrated flushing & CIP system, located on the RO skid

RO-500 Series Product Video

To learn more about our RO-500 Series product, watch this video!



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