

CASE STUDY

RO-200 Series

Agriculture Industry
Irrigation



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Made in USA

 **PURE AQUA, INC.**[®]



Commercial Reverse Osmosis System for Irrigation

Country: United States | **Capacity:** 15,000 GPD

Challenge

SAR (Sodium Adsorption Ratio) is a commonly used measurement of soil health among crop yielders. It consists of a ratio between sodium and calcium/magnesium in the water that is fed to crops. SAR Reduction is an expression to combat the sodium threat irrigation water has on crops. However, water supplied from a reverse osmosis machine will ensure zero to low SAR by reducing almost all salt from the water to provide optimal plant growth. Due to well water being the supply requiring purification, a water analysis is crucial to determining the most appropriate solution.

Solution

A commercial reverse osmosis system was recommended as the best solution to treat 2000 PPM TDS and purify the well water to consist of only 20 PPM. This system purified their contaminated well water to produce water of utmost quality for irrigation, and to most optimally nourish their crops at the capacity of 15,000 GPD. This type of system is equipped to overcome almost any kind of contamination or fouling. System designs are customizable to meet specific output and purification requirements.

Applied System

These systems are model # TW-15.0K-1040 of the RO-200 Series.

Project Video



Features

- High Pressure Pump
- Hydranautics ESPA1-4040 Membranes
- FRP Pressure Vessels
- Pre-Filter Housing with 5 Micron Cartridges
- Reject and Product Flow Meters
- Pre and Post Pressure Gauges
- Low Pressure Switch
- Inlet SS 316 Solenoid Valve
- Factory Tested for Reliability and Designed to Work Seamlessly
- Compact Design & Energy Efficiency
- Long Service Intervals and Easy Maintenance
- Longer Membrane Life

RO-200 Series Product Video

To learn more about our RO-200 Series product, watch this video!



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