

CASE STUDY

RO-200 Series

Manufacturing Industry



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 **Made in USA**

 **PURE AQUA, INC.**[®]



Commercial Reverse Osmosis System (TDS Reduction) for Car Parts Manufacturing

Country: Mexico | **Capacity:** 6,500 GPD

Challenge

The process of manufacturing products generally requires a cleansing phase. The water used in this cleansing phase plays an important role to the appearance of the product. The client's main goal was to produce ultimately purified water to complement the fabrication of their products while recycling the water. For this reason, it was crucial to treat their city water supply for TDS reduction and to meet the necessary water quality requested to supplement the manufacturing of their equipment. One of the company's environmental stewardship is to reuse the waste water they produce in addition to preserving their amount of water consumption they utilize from the city water supply.

Solution

A commercial reverse osmosis system was recommended to this client for its ability to efficiently reduce TDS in water. The system built is a 2-prong approach, which involved a series of water filtration systems including a Double Pass RO (DPRO) and an EDI unit to produce pure water dictated by the process equipment specifications. This system is able to reduce the amount of water needed by the plant from the city water supply by almost 55%. The plant needs to have 15 GPM of feed water from the raw water tank, but since we are able to recycle most of the water, the customer only needed to get around 6.6 GPM from the city. Pure Aqua has helped save an average of 8.4 GPM of city water. Pure Aqua was able to offer them a customized system that would accommodate all these requirements.

Applied System

This commercial RO system was custom made and selected from our RO-200 Series.

Project Video



Features

- Corrosion resistant high-pressure throttling valve
- Heavy duty 5-micron cartridge pre-filter
- 4" TFC spiral wound membranes
- Heavy-duty high-pressure tubing
- Low pressure switch
- Product and reject flow meters
- Electric inlet solenoid valve
- Pretreatment lockout
- Factory tested
- Powder coated carbon steel frame
- Corrosion resistant high-pressure pump
- 220V/1Ph/60Hz power supply
- Pre/post-treatment and pump pressure gauges
- Recycle valve
- FRP pressure vessels
- Tagging and identification of instrumentation

RO-200 Series Product Video

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



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