

CASE STUDY

RO-200 Series

Hospital Industry
Conductivity Reduction



Web: www.pureaqua.com

Email: sales@pureaqua.com

Phone: +1 (714) 432-9996

Toll Free: +1 (844) 309-7501



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 **PURE AQUA, INC.**[®]



Commercial Reverse Osmosis Water Treatment for Hospital (Conductivity Reduction)

Country: Jordan | **Capacity:** 2 X 12,000 GPD

Challenge

Due to hospitals consisting of individuals with vulnerable health conditions, the quality of water supply is required to be completely rid of any contaminants. Conductivity is one measurement used to quantify the quality of water; more specifically, the electrical flow capabilities. Total dissolved solids and inorganic materials produce elevated conductivity levels and contribute to the contamination of the water. Therefore, water purification systems are necessary to reduce conductivity and produce high quality water to serve susceptible patients in hospitals.

Solution

Commercial reverse osmosis water treatment systems were recommended to a Cancer Center in Jordan. The hospital required two reverse osmosis systems to supply ultimately purified water to two buildings in addition to supplying purified water for general use throughout the center. The water treatment system provided included a media filtration system to lower TSS and reduce turbidity from the municipal water as the preliminary step of filtration. From this system, a portion was directed to supply water for general use throughout the center. Another portion of the flow was passed through the RO systems for further purification. Pre-treatment in the form of antiscalant and dechlorination units were included for the RO water systems to prep the water and prevent damage to the RO membranes. Following the reverse osmosis system, a UV sterilizer is put in place to additionally disinfect the water. The purified water proceeds to a storage stainless-steel tank for further use. A product booster pump was provided to transfer the water from the tank to the intended application within the cancer center when necessary.

Applied System

This project consisted of a media filter model **#MLF24-A-F-D** from our **MF-600 Series** as well as two reverse osmosis systems from our **RO-200 Series**, model **#TW-12.0K-840**.

Project Video



Features

- ESPA2-LD-4040 Hydranautics membranes
- 4" TFC spiral wound membranes
- Low pressure switch
- 10 GPM Product and reject flow meters
- SS304 inlet solenoid valve
- Corrosion resistant high-pressure throttling valve
- Pretreatment lockout
- Factory tested
- Powder coated carbon steel frame
- Corrosion resistant high-pressure pump
- 380V/3Ph/50Hz power supply
- Pre/post-treatment and pump pressure gauges
- FRP pressure vessel rated at 300 PSI
- Heavy duty 5-micron cartridge pre-filter

RO-200 Series Product Video

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



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