RODI systems

Project Photos

Project Information

Client: Government research laboratory

Location: Libya

Application: RO desalination pilot system

Description: This containerized system served as part of a pilot system used to test various pretreatment methods for desalination of Mediterranean seawater with reverse osmosis. This particular container houses a 30 gpm media filtration system equipped with Turbidex™ high performance media. The overall project included two other containers, one housing an ultrafiltration pretreatment system, the other housing two separate RO pilot systems.

The system is totally self-contained inside a 40 foot intermodal shipping container. The container is insulated and equipped with an air conditioner to provide climate control. The system operates from a single 400 volt 50 Hz AC power source.

The system incorporates two fiberglass vessels each holding eight cubic feet of Turbidex™ media. The vessels are equipped with pneumatically operated valves which control service, backwash, and rinse down functions. The system is completely automated and is controlled by single touch screen operator interface. The raised floor in the container covers pipe and conduit runs and makes for easy personnel access.

The system is equipped with a full complement of monitoring equipment. This includes turbidity as well as silt density index utilizing RODI's proprietary EZ SDI™ automatic silt density index monitor.