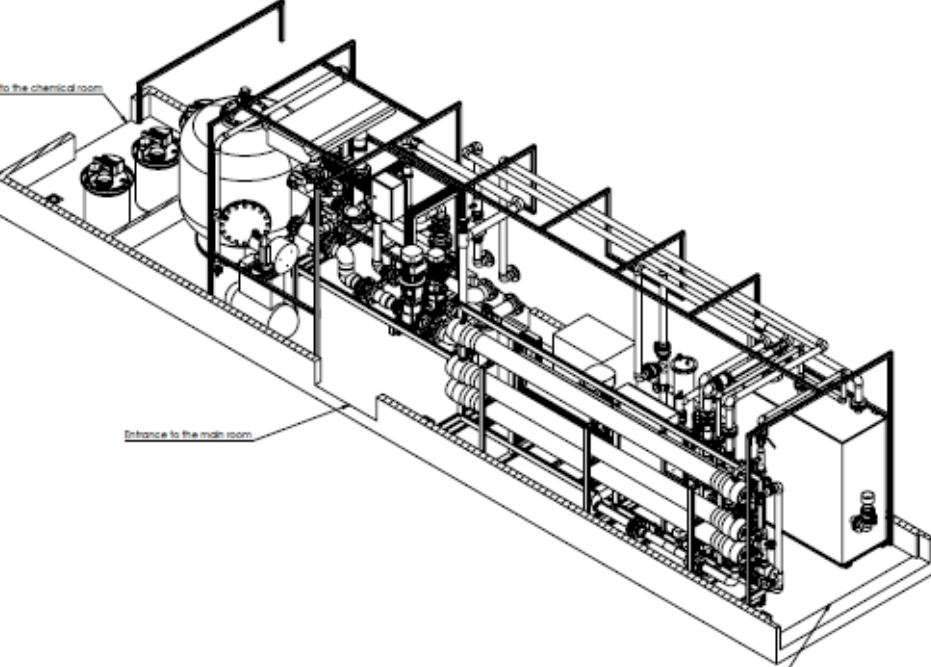




DRINKING WATER PRODUCTION - REVERSE OSMOSIS PLANT

Libya, 300 m³/d

Aim of the Project

Rarefaction of good quality natural water sources requires implementation of adapted and well controlled water treatment facilities, especially to produce drinking water in remote areas.

Lenntech has engineered, built, installed and commissioned a full reverse osmosis system for drinking water production in a harsh environment, with high temperature and dust.

The challenge of this project was to provide an extensive treatment line from pre-treatment filtration and disinfection to post-treatment for drinking water, fitting in a 40ft container. This system is plug and play, fully automated enabling a good autonomy in the remote area where it is placed. The only human intervention is for frequent follow up and maintenance such as refilling the chemicals and undertaking a Cleaning In Place sequence on the reverse osmosis unit.

Scope of Work

- ✓ Engineering, manufacturing and assembly
- ✓ Multimedia filtration with air backwash
- ✓ UV disinfection
- ✓ Antiscalant dosing
- ✓ Cartridge filtration
- ✓ Reverse Osmosis system
- ✓ Cleaning in Place system
- ✓ Air compressor (pneumatic system)
- ✓ pH adjustment
- ✓ Custom made control
- ✓ Insulated and fully equipped container

Plant specs

☐ Feed water quality

TDS: 4300 ppm

☐ Product water quality

TDS: 400 ppm

☐ Water recovery: 70%