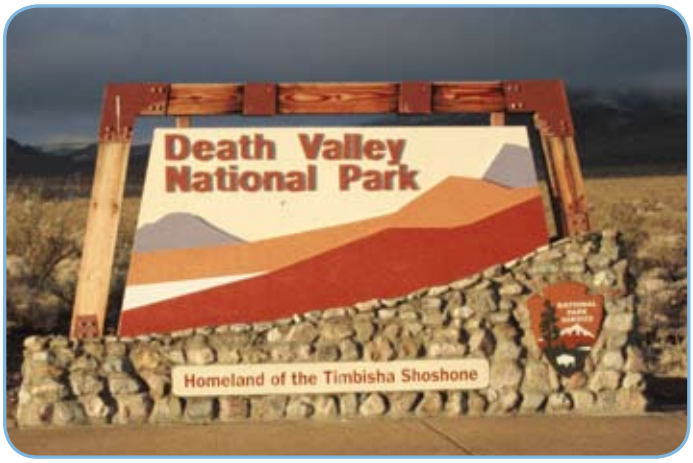
CSM®

» *Potable Water*

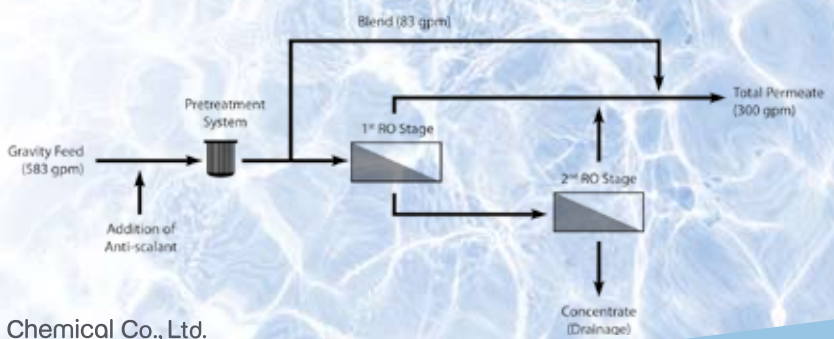
Furnace Creek Water Plant

Death Valley National Park, California USA



Plant Information

• APPLICATION	Production of potable water
• PERMEATE CAPACITY	300 gpm (217 gpm permeate + 83 gpm blend) per train
• PRETREATMENT	Melt Blown PP Cartridge Filters + Antiscalants
• RO MEMBRANE TYPE	Brackish Water and Low Pressure type, 8 inch
• RO MEMBRANE MODEL	1st pass: **RE8040-BE**; 2nd pass: **RE8040-BLR**
• RO SYSTEM ARRAY	6:3 (Two stage, 3 trains, 7 elements per pressure vessel)
• SYSTEM RECOVERY	84%
• CLIENT	US National Parks Department
• INSTALLATION	March 2009

General Information

Furnace Creek, headquarters of Death Valley National Park in California, is a region that attracts more than 700,000 visitors annually and has been home to the Timbisha Shoeshone tribe (a federally recognized Native American tribe). Regarded as one of the most arid and lowest census-designated place in the United States, providing safe and adequate water has become a challenge for region. To meet demands for clean water for potable uses, Furnace Creek Water Plant uses CSM brackish and low pressure RO membranes to reduce TDS, arsenic, flouride and boron levels to comply with US and California drinking water standards. The feed water is gravity fed with pressure reducing valves and the system operates with a permate flush upon system shutdown.