

Industrial Brackish Water Reverse Osmosis System Dubai UAE



INTRODUCTION

The Industrial Brackish Water Reverse Osmosis Unit was manufactured and supplied by Pure Aqua in January 2008 for a major water treatment company in Dubai. The BWRO Unit is capacity of 90,000GPD product water.

SYSTEMS & PROCESS

Feed water to the system is processed water with raw water TDS of about 2450 PPM. The system design was based on high rejection TFC spiral wound low fouling membranes.

The Reverse Osmosis Unit was selected from our RO-400 Series, model number BW-87K-2680. It produces 63 gpm of drinking water with TDS less than 50mg/L.

The BWRO Unit consists of 8"x40" Hydranautics ESPA2 membrane elements, Codeline 8" diameter FRP side ported pressure vessels, controlled by microprocessor with digital TDS read out, hi/low tank level switches, hi/low pressure switches, SS multistage pump and inlet shut off valve.

PERFORMANCE

From a feed TDS of about 2,450mg/L at temperature range of 25 °C, the system produces 90,000gpd of high quality water at less than 50ppm. Since the time of its start-up in January 2008, the plant has been running smoothly with minimal trouble-shooting.



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