

Dubai Sports City in Dubai, UAE



Introduction

In May 2007, Pure Aqua successfully supplied an Industrial Reverse Osmosis Kit to produce 200 GPM of product from 250 GPM feed, antiscalant chemical dosing, prechlorination and chemical dosing, acid injection dosing, and dechlorination dosing systems. Feed water to the package is processed water with a raw water TDS of about 1,500 PPM. The package design was based on a high rejection TFC spiral wound low fouling membrane. The Reverse Osmosis Kit was selected from our RO-500 Series, model # BW-360K-8680-3 It produces 200 GPM of drinking water with TDS less than 100 mg/L. The Reverse Osmosis Package consists of 5-micron cartridge filters to reduce feed water Silt Density Index (SDI) and to limit the SS to 5-micron size. TFC spiral wound membranes have a recovery rate of 80% with an advanced microprocessor control panel and cleaning system.

Plant Overview

Location:	Dubai
End-User:	Dubai Sports City
Objective:	Potable water
Water Source:	Processed water
Feed TDS:	> 100 mg/L
Plant Capacity	200 GPM
Pretreatment:	5-micron Cartridge Filters
Auxiliary System:	antiscalant chemical dosing, prechlorination and chemical dosing, acid injection dosing, and dechlorination dosing systems
Control System:	PLC controlled with color touch screen

