



Puerto del Rosario IV Desalination Plant. Photo courtesy of Consorcio de Abastecimiento de Aguas a Fuerteventura (CAAF).

NanoH₂O Retrofit Improves Water Quality and Reduces Costs

QuantumFlux seawater RO membranes were chosen to retrofit one of two first-pass trains at the Puerto del Rosario IV plant located on Fuerteventura Island, Spain. Owned and operated by Consorcio de Abastecimiento de Aguas a Fuerteventura (CAAF) and designed by Degremont, the plant will utilize NanoH₂O's high rejection QuantumFlux membranes to produce an estimated 6,500 m³/day with less membranes elements and better water quality.

Quick Facts

Name of Plant:	Puerto del Rosario IV
Location:	Fuerteventura Island, Spain
Client:	Degremont
End User:	CAAF
Start-Up Date:	May 2013
Feed Water Intake:	Beach well
Application:	Potable water



System Design

Plant Specifications:	Single pass with 54 PVs (existing trains with 80 PVs)
First-Pass Recovery:	44%
Plant Capacity:	6,500 m ³ /day (1.7 MGD)
Feed Temperature Range:	22° - 23° C

Membrane Installation and Performance

QuantumFlux Membrane Model:	Qfx SW 400 SR, Qfx SW 400 R
Average System Flux:	19.3 l/mh (11.4 gfd)
Permeate Boron:	0.7 ppm
Feed Pressure:	61-63 bar (885 - 914 psi)

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