Energy Recovery News

January 10, 2001

ERI Launches Large Scale PX Rotor at Vivendi Enerserve in St. Maarten

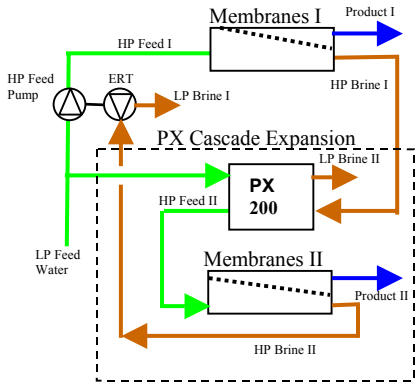
Industry Experts believe the desalination world will never be the same with the continued success of a third generation SWRO energy recovery device running commercially since November at one of several 3,900 cubic meter per day desalination trains being operated by Vivendi Enerserve in St Maarten.

Enerserve St. Marten 3ea PX-200's / 600 gpm total

The device in question is the "series 65" PX-220. It is a scaled-up version of Energy recovery Inc.s original technology that has been operating in hundreds of plants worldwide since 1997. This new device made by ERI, Inc of San Leandro California, can process over 220 gpm of reject water with only one moving part. This means that it only requires one PX-220 to service 1,000 cubic meter per day desalination plant operating at 45% recovery. Using the original technology, 4 rotors were required to handle the same flow.

According to Willem Barendsen, former President of Vivendi Enerserve, "Vivendi has been adopting PX technology since March 2000 to lower operating costs. The use of PX technology in their BOOT operations is saving Vivendi over $1.2 million per year in power and maintenance costs. We have retrofitted some of the plants with the PX to get more capacity from the existing pumps. The additional water revenue and lower costs really showed in the bottom line"

Mr. Barendsen added: "Before I retired as President of Enerserve, we decided to buy the first set of the larger PX units coming out of the ERI production line in California. Best CAPEX decision I ever made. These large PX units were installed at the St Maarten (GEBE) plant. I will tell you that the units started up without any problems in mid November and have been operating flawlessly ever since."



St. Marten Cascade Expansion Diagram

According to Ian Cameron, Sales Manager of ERI in California, "We believe the series 65 PX is revolutionizing the economics of desalination" This large rotor makes possible very efficient desalination plants, under 2.2 kWH per cubic meter constructed with very few moving parts" We are currently installing Phase II of Dhekelia with this new device. With the series 65 we can do a 10,000 cubic meter per day control block with ten rotors. The same size train in Dhekelia phase I took 40 rotors. Simpler is better. This technology is making possible for small and large companies to desalinate seawater to make and sell potable water for less than $0.50 cents per cubic meter. This cheap water is opening up new markets in resort areas and for irrigation"

ERI Inc is the leader in advanced energy recovery devices. ERI pressure exchangers have been operating and saving energy since 1997. There are over 500 ERI PX units installed worldwide saving clients millions of dollars per year in energy and maintenance costs.

Making Desalination Affordable

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