

OPT's X-pump™ Wins Most Promising Technology Award

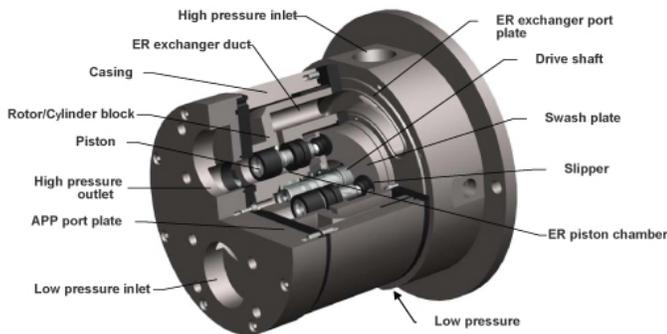


Ventura, CA (April 25, 2008) – Ocean Pacific Technologies (OPT) won the prestigious Global Water Intelligence (GWI) Award for New Technology of the Year, 2008. According to GWI's web site, "...the award is given to an applied process or application that shows the greatest promise in the global water industry, and which has been demonstrated on a pilot scale or full scale during 2007, and/or supported by a peer-reviewed journal." This year's competition was held as part of the IDA/GWI conference - *Water, Finance & Sustainability 2008*. The competition embraced a "Technology Idol" format where the six nominated contestants were given five minutes to present their concept to an expert panel of four and an audience consisting of approximately 200 desalters, financial analysts, investors and other conference attendees. After each contestant's "pitch" there was a ten minute round of questions from both the panel and audience. Finally, the audience cast their votes for the technology they felt showed "**the greatest promise in the global water industry.**"

unique axial piston pressure exchanger pump (patents pending). The **X-pump** combines the main high pressure pump and energy recovery pressure exchanger into a single unit and does not require any additional pumps or controls. In fact, the unit precisely regulates the product flow and RO recovery rate of the system and thereby eliminates the need for many of the instruments and controls typically required in reverse osmosis applications. The **X-pump** has been specifically designed for reverse osmosis applications and may be the most efficient and simplest pump and energy recovery solution that exists today.



XP-35 Flow Rates From 38-130 l/min (10-35 gpm)



X-pump Sectional View

OPT presented their unique line of axial piston pump and energy recovery (ER) products specifically designed for reverse osmosis applications. The axial piston pump (APP) design has been used in the oil hydraulics industry for over 70 years with tens of thousands of units in operation, in thousands of different applications. In the early 1980's through a public-private partnership with the British Government, a line of axial piston products that used plain water as the hydraulic fluid instead of oil was developed and water hydraulic axial piston pumps, motors and other products have been applied to various industries since 1987. Now OPT is combining the proven principles of water hydraulic axial piston pump and pressure exchanger energy recovery technology to produce a

Features and benefits include:

- **Lowest energy consumption** - Combined high efficiency positive displacement pump and pressure exchanger design
- **Simplest application** – Only one **X-pump**, product flow meter and high pressure gauge are required
- **Ultra low maintenance water hydraulic design** - No oil or other lubricants to be changed or replaced and water lubricated hydrodynamic bearings provide long life
- **Smooth flow operation** - Axial piston rotary design requires no pulsation dampeners even at high flows
- **Corrosion resistant in seawater and brine environments** - Constructed from Duplex stainless steel and polymer materials
- **No mixing or overflush** – A physical barrier/piston seals the brine from the seawater
- **Compact design** - Requires approximately 50% less space and weight than other pump and ER solutions

For information on **Ocean-X technology™** refer to our web site at www.ocean-pacific-tec.com or contact info@ocean-pacific-tec.com.