

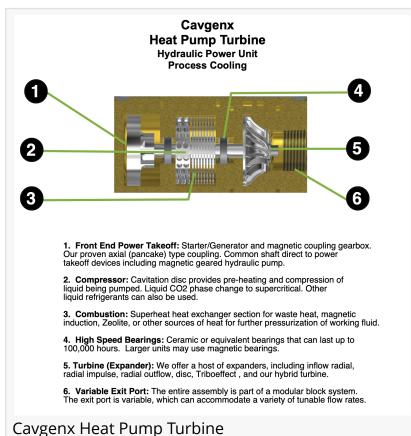
Salgenx Announces Revolutionary Heat Pump Turbine Technology to Slash RO Desalination Costs by 30 Percent

Salgenx Announces New Heat Pump Turbine Technology to Slash RO Desalination Costs by 30 Percent

MADISON, WISCONSIN, USA, January 2, 2024 /EINPresswire.com/ -- Salgenx, a trailblazer in sustainable energy and water solutions, is thrilled to unveil its latest innovation poised to transform the desalination industry - the Heat Pump Turbine. This groundbreaking technology incorporates a novel cavitation pump to drastically reduce the energy consumption of Reverse Osmosis (RO) desalination, making it 30 percent more cost-effective than conventional methods.

Traditional RO desalination relies on electrically powered pumps to create the necessary pressure for seawater to pass through membranes during desalination. This process consumes a significant amount of electrical energy, rendering desalination an expensive solution for freshwater production from seawater. Salgenx's Heat Pump Turbine introduces a paradigm shift in RO desalination.

The Heat Pump Turbine's innovation lies in its use of a new cavitation



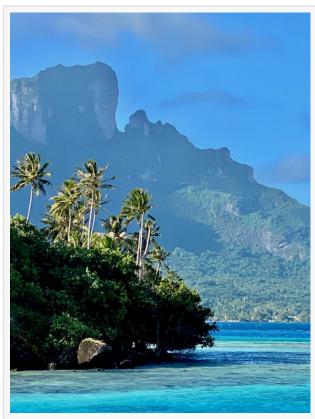


Salgenx S3000 Salt Water Battery Energy System

pumping method, resulting in a high Coefficient of Performance (COP). This remarkable COP

allows the Heat Pump Turbine to efficiently build pressure, eliminating the need for traditional electrically powered pumps to pressurize water through the membrane. Instead, the system harnesses the energy generated by the Heat Pump Turbine to drive the RO pumps, significantly curtailing the electrical power required for Reverse Osmosis.

Salgenx's Heat Pump Turbine not only revolutionizes the economics of desalination but also offers an environmentally friendly solution. By making RO desalination more energy-efficient, it becomes the most cost-effective method for converting seawater into freshwater, delivering substantial savings in energy costs. This breakthrough technology holds the potential to make clean and fresh drinking water more accessible and affordable for communities worldwide, addressing the pressing global water scarcity challenge.



Salgenx desalination is perfect for islands and remote oceanic villages

To further enhance the sustainability of desalination,

Salgenx also has the Saltwater Battery. This state-of-the-art energy storage solution seamlessly integrates with the Heat Pump Turbine and solar photovoltaic (PV) systems. During daylight hours, the Salgenx Saltwater Battery efficiently stores surplus solar energy generated by PV panels. At night, this stored energy can be discharged, further diminishing energy expenses associated with desalination. The combination of the Heat Pump Turbine and the Salgenx Saltwater Battery elevates the overall energy efficiency and cost-effectiveness of the desalination process.

Salgenx remains steadfast in its commitment to advancing sustainable water solutions and mitigating the global water scarcity crisis. The development of the Heat Pump Turbine and the Salgenx Saltwater Battery represents a significant leap towards achieving this mission. By lowering the energy consumption and costs of RO desalination, Salgenx is making clean and fresh water more accessible to communities worldwide, while contributing to a greener and more sustainable future.

About Salgenx (a division of Infinity Turbine LLC):

Salgenx is a pioneering force in sustainable water solutions, dedicated to providing cost-effective and environmentally friendly solutions to combat global water scarcity challenges. With a resolute commitment to innovation and sustainability, Salgenx develops cutting-edge technologies that enhance the accessibility of clean and fresh water for communities worldwide.

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