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# press-releases-cavgenx-heat-pump-turbine-process-device



This webpage QR code

**Cavgenx a division of Infinity Turbine LLC**

Press Releases

Structured Data

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Press Releases Cavgenx.

**PDF Version of the webpage (first pages)**

## **CavGenX Introduces Heat Pump Turboshaft for AI Processor Cooling and Hydraulic Power Generation**

CavGenX, a subsidiary of Infinity Turbine, is proud to announce the launch of its advanced heat pump turbine, designed to transform the world of energy generation and hydraulic power. The CavGenX turbine is set to provide closed loop cooling for AI processors and hydraulic pressure that can be harnessed for a wide range of applications, including driving wheels, gears, machinery, and even lifting devices such as drones.

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## CavGenX Introduces Heat Pump Turbine for Hydraulic Systems which may Triple Vehicle Range

Cavgenx, a division of Infinity Turbine LLC, is proud to announce the launch of its new Heat Pump Turbine, set to alternatives hydraulic power generation. This innovative technology offers fresh alternatives for powering vehicles and industrial machines, marking a substantial leap forward in enhancing energy efficiency and promoting environmental sustainability.

# Cavgenx Heat Pump Turbine: A Sustainable Solution to AI Data Centers Water Challenge

In a recent development, Cavgenx introduces the Heat Pump Turbine, a combined cooling and power (CCP) system designed to address the significant water usage in AI data centers.

This comes in the wake of a University of California, Riverside study revealing the substantial fresh water consumption by AI queries, notably those from ChatGPT. The study found that 20 to 50 AI queries could use about half a liter of water, largely due to steam emissions from data processing centers.

## **Infinity Turbine Introduces Revolutionary Cavitation Compressor Pump for Heating and Cooling Applications**

Infinity Turbine LLC announces a further expansion of its innovative heat pump turbine with integrated Cavgenx cavitation compressor pump, now encompassing absorption cooling and specialized cooling for AI data centers.

### **How it Works**

The Cavgenx cavitation pump represents a significant advancement in refrigeration technology, serving as a highly efficient alternative to conventional refrigeration compressors. Unlike traditional compressors that rely on pistons or gears to compress refrigerant, the Cavgenx pump utilizes a uniquely designed spinning disc. This innovative approach harnesses the power of cavitation, where the rapid formation and collapse of vapor bubbles in a liquid induce a phase and pressure change. This method not only simplifies the mechanism, as the pump consists of just one moving part, but also enhances efficiency compared to standard refrigeration compressors. The streamlined design and improved operational efficiency make the Cavgenx cavitation pump a cutting-edge solution in the field of refrigeration.



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