

LOW TEMPERATURE EVAPORATOR (LTE®)

The single-step, closed-looped system for *world-class* water management.

The patented Low Temperature Evaporator (LTE®) uses advanced Mechanical Vapor Recompression (MVR) technology to operate within a very low temperature range by continuously recycling vapor enthalpy. This closed-loop system enables near-zero heat loss, minimal freshwater intake for makeup water, and zero wastewater discharge to municipal systems, land, or natural water bodies. Its compact footprint delivers unmatched evaporation capacity compared to conventional systems.

LTE® is engineered for high reliability, autonomous operation, and ease of control, making it an ideal solution for diverse industrial applications. The system can recover up to 99% of clean, high-quality water.

One of LTE®'s most powerful advantages is its ability to treat direct effluent, reverse osmosis (RO) reject, blowdown, and leachate with little to no pre-treatment. With low operating costs and exceptional water recovery rates, LTE® sets a new benchmark in sustainable water treatment technology.

LTE® operates without the need for external heat sources such as boilers or heat rejection systems like condensers and cooling towers, which are typically required in conventional setups. With **over 200 systems deployed worldwide**, LTE® has proven its versatility across industrial, commercial, and even domestic sectors. It not only enables true Zero Liquid Discharge (ZLD) but, in many cases, also achieves Zero Liquid Intake (ZLI), dramatically reducing freshwater dependency throughout various processes.



*Systems are scalable to size from 30,000 GPD+. Pictured system treats approximately 100,000 gallons per day.