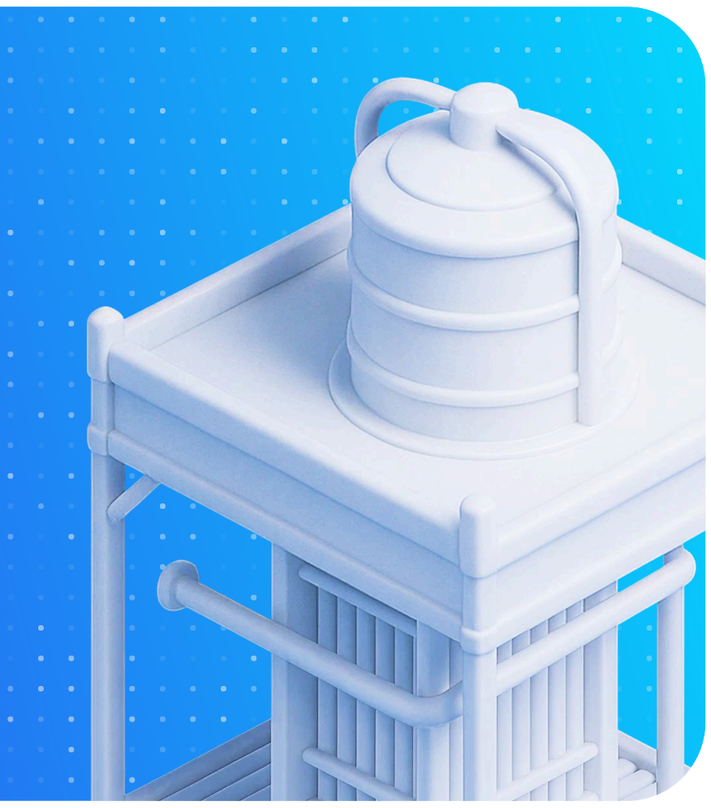
SPHERE

Sphere delivers a patented cooling solution that significantly cuts electricity and water usage, reduces maintenance, and maintains maximum performance.



SOLUTION

SPHERE’s system delivers high-performance cooling with a breakthrough low-water evaporation process using just 1% circulation. It connects directly to the unit’s internal heat exchanger, removing the need for pumps or external equipment. Operating in a fully closed loop, it cools any process liquid while completely avoiding corrosion, scaling, and Legionella — ensuring clean, reliable, and maintenance-light cooling.

PROVEN AT SCALE

Transformative Efficiency in Real Industrial Environments

SPHERE’s cooling technology has demonstrated exceptional performance across demanding industrial settings, delivering drastic energy savings, high reliability, and streamlined operations.

SAGIV PLANT

Mashabei Sadeh, Israel

System size: 4 TR
Process fluid: Emulsion
Operating range: 35–25°C
Power consumption: **Only 700 W/hour**
Energy savings: **Over 90% reduction** compared to the previous chiller
Reliability: More than **two years of continuous operation** with stable performance

ICL

Dead Sea Works

System size: 50 TR
Process fluid: Water
Operating range: 80–30°C
Power consumption: **Only 3 kW/hour**
Energy savings: **Over 90% reduction** vs. legacy cooling equipment.
Reliability: Significant reduction in pumps and heat exchangers across the cooling loop, enabling major **OPEX savings** and simplified infrastructure

COMPETITIVE ADVANTAGES

Short ROI driven by dramatic efficiency gains and reduced operational costs

Patented technology uniquely enabling ultra-efficient evaporation and closed-loop cooling

Significant OPEX savings across electricity, water, and maintenance

Compact, easy-to-operate system with minimal on-site footprint

No infrastructure changes required seamless integration into existing facilities

ROADMAP

2023
Completed proof of concept for both liquid and gas cooling platforms - validating core IP.

2024
Executed first industrial pilot, confirming strong performance in real production environments.

2025
Launched a paid, large-scale pilot with ICL, demonstrating clear commercial demand.

2026
Transition to full commercialization with expected multi-dozen system sales.

Strategic expansion into the data center market, leveraging massive demand for efficient cooling.

Scouting and penetration of additional high-value industrial sectors to accelerate scale and revenue.

SPHERE

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