



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 50% 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 50% 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.



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