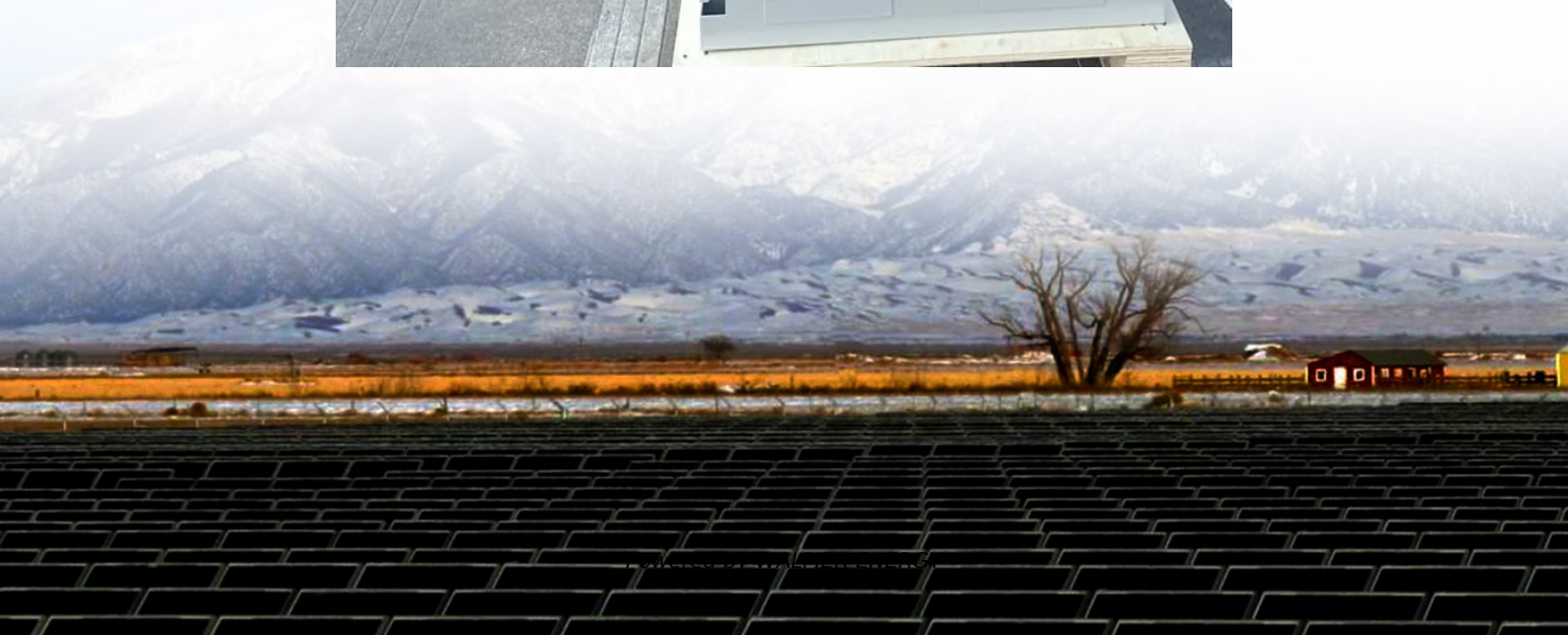


What is a liquid cooling container





Overview

Unlike traditional air cooling, which relies on fans and airflow, liquid cooling uses a liquid medium—typically water or a specialized coolant—to absorb and transfer heat away from critical components such as CPUs, GPUs, and other heat-generating hardware. What is liquid cooling?

Liquid cooling is designed to efficiently remove heat from systems that operate at high computational workloads, making it essential in applications such as artificial intelligence (AI), machine learning (ML), high-performance computing (HPC), and data centers where traditional cooling methods may fall short.

What are liquid cooling systems used for?

Liquid cooling systems are widely used in various sectors: Computing: In high-performance computing (HPC) and gaming PCs, where heat generation is significant, liquid cooling systems can maintain optimal operating temperatures, thereby increasing performance and longevity.

What are some examples of liquid cooling in data centers?

Here are the most notable examples. Direct-to-chip liquid cooling, also known as DLC, is one of the most common forms of liquid cooling in data centers. In this method, cold plates are attached directly to the processors or other heat-generating components.

What are the benefits of liquid cooled data centers?

Liquid cooling systems reduce the need for large chillers and CRAC units, cutting energy consumption dramatically. PUE scores for liquid-cooled data centers are consistently below 1.2, compared to 1.4 - 1.6 for air-cooled facilities. Moreover, many hyperscalers have committed to eliminating water-based cooling towers in drought-prone regions.



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