

# 6 Benefits of Direct Liquid Cooling

Did you know that direct liquid cooling (DLC) is not just a leap, but a quantum leap beyond traditional air-cooling methods? Liquid has the incredible capacity to capture four times more heat than its air counterpart, making it an attractive option for modern data centers. Here are six benefits of DLC:

01

**Greater computational density.** DLC allows for greater server density in data centers by eliminating the need to allocate space in the data center for required airflow.

02

**Improved server performance.** Overheated CPUs can lead to thermal throttling which reduces server performance. Servers maintained at supported temperatures through liquid cooling can improve performance and potentially lower failure rates.

03

**Noise reduction.** DLC systems tend to be quieter than air cooling systems because the server fans are running at much lower speeds.

04

**Uniform cooling.** Liquid cooling ensures even distribution of cooling across servers and eliminates hot spots.

05

**Energy savings.** DLC minimizes reliance on energy-intensive air conditioning and high-speed fans, resulting in energy savings and lower operational costs with lower power usage effectiveness ratio (PUE).

06

**Increased sustainability.** Lower power can mean a reduced carbon footprint.

LEARN HOW  
[DLC can benefit your modern data center.](#)