

State-of-the-Art Data Center Cooling, Optimized.

LIQUID COOLING OVERVIEW

Ongoing trends like IOT and AI have dramatically increased the amount of computing power needed – and the need to have computing power closer to the end user.

Decentralized compute demands are impacting businesses and government agencies alike. And driving the need for more hardware, more space for that hardware, and more energy to run it all.

Decentralized Computing Challenges



More computing power requires more gear. Many operators are simply running out of space in their data centers.



Increasing energy costs are exacerbating the budget impact of running and cooling the gear. Plus, some operators are maxed out on the amount of energy the grid can supply.



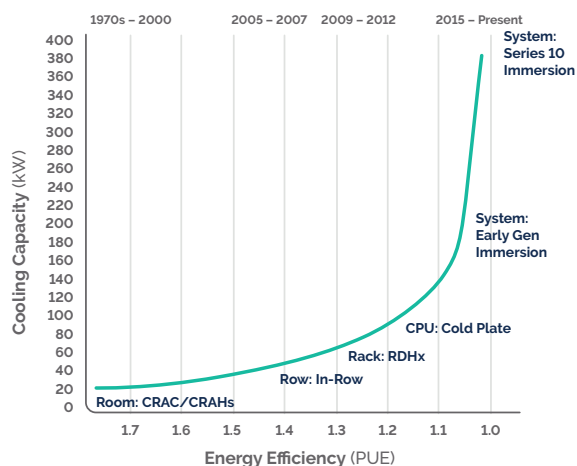
Given the growing importance of sustainability metrics, operators need to use less energy and water, not more.

How Liquid Cooling Can Help

Liquid cooling systems empower data center operators to do more with less. Less space. Less energy. Less cost.

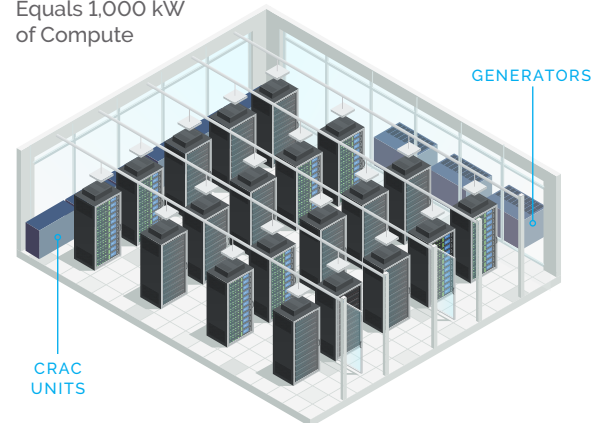
- Compared to traditional CRAC (Computer Room AC) systems, immersion cooling can increase PUE (Power Use Effectiveness) 18x
- Rack density can be increased up to 10X
- Power savings up to 50% can be realized

The Evolution of Data Center Cooling Leads to Immersion



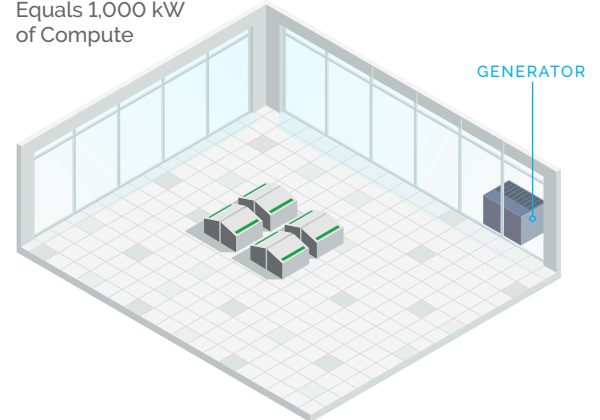
LEGACY AIR

1,700 kW of Power in
Equals 1,000 kW
of Compute



IMMERSION COOLING

1,030 kW of Power in
Equals 1,000 kW
of Compute



The Park Place Solution

Implementing a liquid cooling solution can come with its own set of challenges. To name a few:

- Existing hardware needs to be prepared for the immersion cooling process
- Training is required for regular maintenance of immersed gear
- Many vendors are involved from the tanks, to the cooling liquid and more

Park Place Technologies removes the complexities of the immersion cooling journey – serving as a single-vendor solution for the entire process.

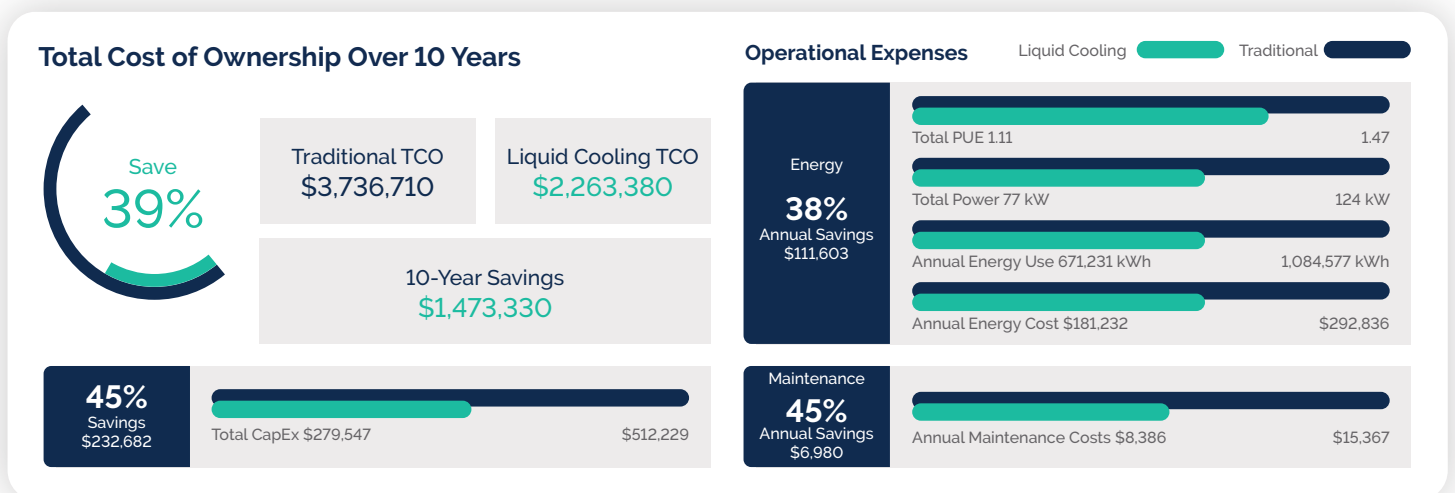
A Complete, Turn-Key Liquid Cooling Solution



Return on Investment

Although immersion cooling requires an initial capital investment, with the reduced total cost of ownership (TCO), operators can see a significant return on investment (ROI) over the following years.

Example assuming 42 servers:



Of course, every situation is different. Your scenario can be plugged into this TCO tool: <https://www.grcooling.com/grc-tco-calculator/>

Or if you would like to provide some details, we can run the numbers and present to you later.

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