NAUTILUS®
DATA TECHNOLOGIES

Water-Cooled Data Centers

High Performance • Ultra-Efficient • Sustainable • Proven

Access to data is a critical public good. Like every other public good, data relies on public and private infrastructure. It includes countless devices, miles of fiber optics, and software systems, all of which depend on rapidly expanding data centers to provide local, national, and global services faster and at a larger scale than ever before.

Today, to stay cool, data centers use air conditioning systems. These consume massive amounts of energy and drinking water, produce significant amounts of wastewater, and use chemical refrigerants contributing to climate change and ozone depletion. These environmental problems are getting worse each day.

Tomorrow, thanks to Nautilus' innovations, we will cool data centers using our patented Total Resource Usage Effectiveness (TRUE™) cooling closed water loop technology. It allows us to utilize nature's cold water to keep racks cool. It significantly reduces energy use while using zero drinking water, zero refrigerants, zero chemicals, and causes no harm to wildlife.

In 2020, Nautilus built and commissioned a high density data center in Stockton, California, as a proving ground for its innovative approach to zero impact cooling. We provide customers of all sizes the leasing and colocation services needed to quickly and efficiently establish or expand their data center operations.

Our water-cooled data centers are leading a global transformation to high-performance, ultra-efficient, and environmentally sustainable operations in the data center sector.

3x
the density of traditional racks

100+kW
per rack enabling AI and machine learning

9-12 months
delivery for land or floating data centers anywhere in the world

70% +
more energy efficient in cooling

30%
less power consumption than traditional air-cooled data center

Zero
water consumption, refrigerants, chemicals, or water pollution

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High Performance | Right for our customers

Our natural water-cooling facilitates high-density computing at 100kW a rack. Our modular approach is faster to build, easier to deploy, and our natural water cooling minimizes power and cosumes no water. Our ability to drive cost capital and operating expenditure reductions is proven.

- **High-Density:** 100kW a rack allows utilization of high-performance applications such as AI and machine learning. Mixed density racks in a vault don't incur cost penalties that would be required if ambient cooling were used.
- **Scalability:** Designed to allow customers to add power capacity by scaling in place.
- **Competitive Rates:** With first in class PUE, customers benefit in their metered cost of energy, with associated reductions in carbon emissions and air pollution.

Ultra-Efficient | Right for society

We're closing the digital divide by making sure that data access is more and more universal without minimizing pressure on electrical grids and elimnating water impact completely.

- **Energy-efficient:** 70+% more energy-efficient in cooling than industry average for data centers.
- **Modular Approach:** Prefabricate and deliver land or floating data centers anywhere in the world in 9 to 12 months.
- **Closing the Digital Divide:** Allows the acceleration and democratization of modern data services globally by allowing data centers to be placed closer to populations in rapidly increasing emerging markets.

Sustainable | Right for the planet

We minimize the impact data centers have on the planet and we're able to help the largest organizations drive PUE below 1.15 every day of the year. Our technologies reduce land use, water use, and the use of other scarce resources.

- **Reduce Pollution:** 30+% net reduction in energy-related CO2 and air pollution.
- **Save Drinking Water:** No consumption of drinking water and no wastewater production.
- **Zero Chemicals:** No use of water treatment chemicals, potent greenhouse gas, or ozone-depleting refrigerants.
- **Safe for the Environment:** No impact on water quality, fish, or wildlife.

Proven and Practical | The Right Technology

We're giving everyone a better way to cool data centers our offering is in the right place, with the right utility utilization, at the right cost.

- **Land or Water:** Land or floating data center product.
- **Fully Operational Data Center:** Our infrastructure offers power, cooling, security, and connectivity meeting critical customer needs with deployment size ranging from rack to vault.
- **Multiple Locations:** Data center sites include:
  - Port of Stockton, CA Now Available
  - Northeast United States (2022)
  - Limerick, Ireland (2023)