



Pioneering green data centres

Reliable and efficient solutions that power data centre performance

GRUNDFOS 

Possibility in every drop



Why Grundfos?

We are the first water solutions company with a Science-Based Target-approved Net Zero goal.

**By
2030**

- Reduce absolute Scope 1 and Scope 2 Greenhouse Gas (GHG) emissions by 50%
- Reduce absolute Scope 3 GHG emissions by 25%

**By
2050**

Reduce absolute Scope 1, Scope 2, and Scope 3 GHG emissions by a minimum of 90%

The rising demand for data centres

Data centres power our digital world, and as demand for data grows, so does the need for more sustainable and efficient solutions. Evolving technologies like Artificial Intelligence (AI), machine learning and high-performance computing (HPC) are increasing rack densities, adding to the challenge of cooling and water management.

Grundfos develop reliable, energy-efficient pumping and water solutions to help data centres move towards achieving their sustainability goals. With a global presence and over 80 years of experience, we deliver standardised solutions that meet industry demands while adapting to regional and local requirements.

Did you know?
Some data centres can consume up to 5 million gallons of drinking water daily!¹



¹ <https://utulsa.edu/news/data-centers-draining-resources-in-water-stressed-communities/>

Solving critical data centre challenges

At Grundfos, we believe it's possible to cool data centres without warming the planet. That's why we share a sense of responsibility with the data centre industry that drives us towards ever more energy-efficient solutions, helping you exceed your own sustainability goals.

Our dedicated specialists can guide you through our existing solutions or assist in designing bespoke systems tailored to your needs. Together, we can build data centres that support the future without compromising the planet.



Speed and agility

Our solution

- Present in **55+** countries
- **500+** authorised service partners
- **4** distribution centres globally

Uptime

Our solution

- **Quality certification:** ISO 9001, ISO 14001, ISO 45001
- **Split case pumps** are fully compliant with the **ISO 9906** standard and offer a **Grade 1U option** for **tighter tolerance**
- **11** testing facilities worldwide
- **100%** pumps testing at the manufacturer's factory

WUE

Our solution

- Water treatment and distribution **that reduces water footprint**

PUE

Our solution

- **Energy optimisation** through system controls and innovative digital solutions
- Best-in-class efficiency with **IE4/5 standards**

Grundfos data centre cooling solutions

With rising energy demands, complex cooling needs, and the pressure to stay online 24/7, Grundfos understands that running your data centre is a complex challenge that involves everything from balancing power and water use to ensuring reliability at every level.

Our air, liquid and hybrid cooling solutions are designed to maximise energy efficiency and minimise environmental impact, ensuring your data centre operates at peak performance.



- Split case
LS/LSV pump**

 - Enhanced flow and best-in-class efficiency with IE4/5 motor
 - Easy servicing of seal and bearing
 - Optimised hydraulic performance



- Inline single stage
TP/TPE pumps**

 - Optimised hydraulics for high efficiency
 - Top-pull-out design for easy service dismantling



- Booster set
Hydro MPC-E**

 - Booster system with frequency-controlled pumps
 - Maximum efficiency with MGE IE5 motors
 - Provides full speed control for all CR pumps

Aftermarket service



Service agreement

- All-In maintenance
- Customised service agreements
- Grundfos energy earnings



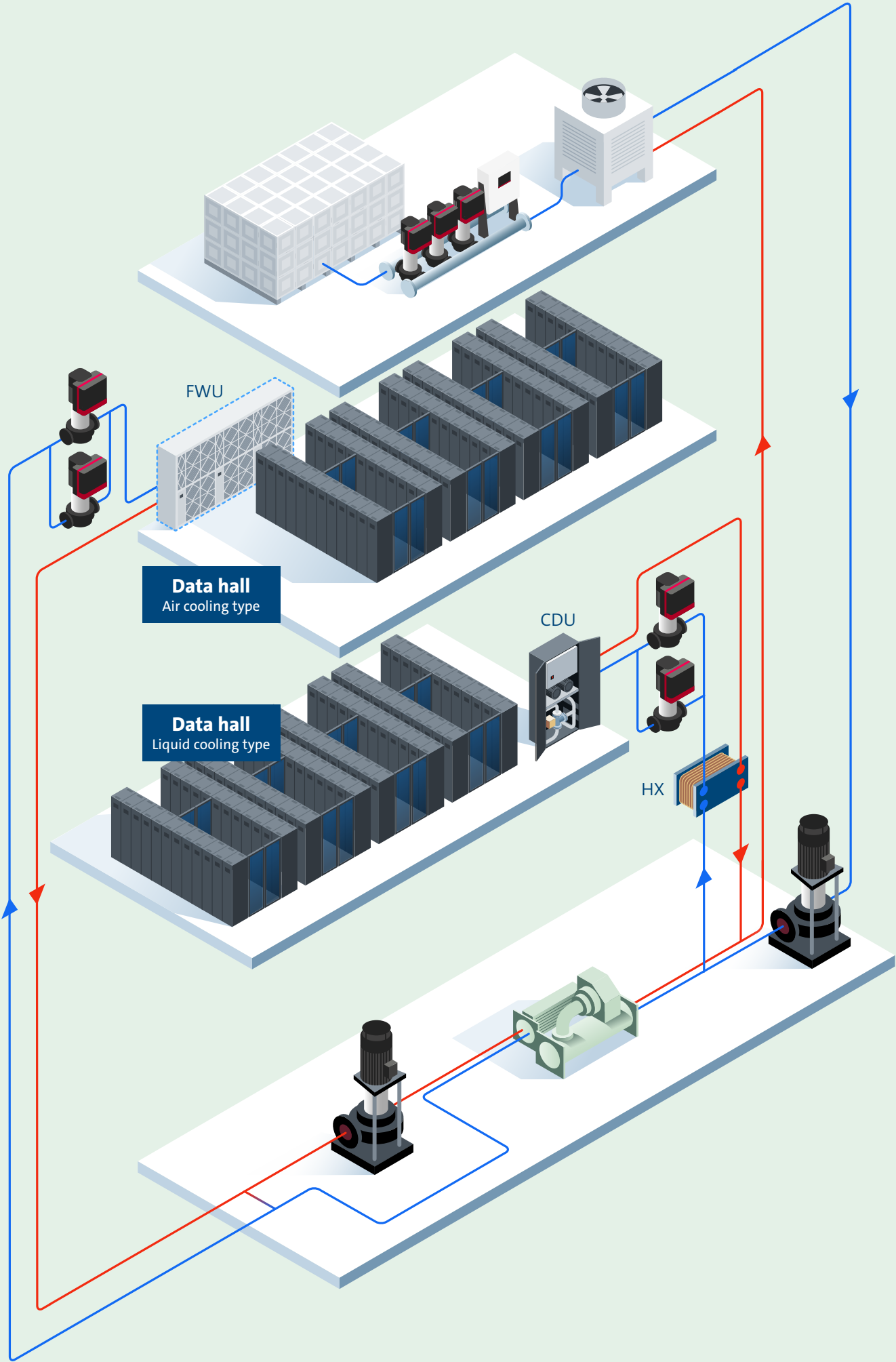
Operation services

- Installation
- Commissioning
- Laser alignment
- Inspection
- Extended warranty



Repair services

- Repair
- Spare parts



Optimising data centre efficiency for a Silicon Valley tech leader

A prominent Silicon Valley-based tech company, globally recognised for owning three major social media platforms, set out to build one of the world’s most advanced data centres.



Tier

III

Cooling load

140MW

Area

170,000 m²

Cooling type

Liquid cooling

Redundancy

N + 1

Challenge

- Requirement for a high-performance pumping solution to meet strict water quality standards
- Need for a compact system design to fit within the site’s constraints
- Target PUE of 1.19 for optimal energy efficiency
- Ability to handle a 140 MW cooling load

Solution

- Vertical multistage pumps made from duplex stainless steel to meet the highest technical water quality standards
- Extra-large CRN pumps for compact footprint and high efficiency

Results

- Achieved PUE of 1.19 and enhanced energy efficiency
- Minimised space requirements
- Ensure long-term durability
- Optimised infrastructure for both efficiency and future scalability



We installed
79 units of
multistage
pumps and
8 units of
**extra-large
CR255 pumps**

We believe it's possible to cool a data centre without warming the planet

Sustainability is at the core of everything we do at Grundfos.

Alongside the data centre industry, we share an acute sense of responsibility that drives us to find even more energy-efficient solutions that help you exceed your own sustainability goals.

With data centre specialists around the world, we'll be by your side at every stage—from consultation and design to commissioning, maintenance, and monitoring.

To find out more, visit:

Grundfos.com/datacenters

Explore Grundfos data centre solutions



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