



Free cooling chillers at our FRN facility

As part of our commitment to sustainability and technological advancement, and our lifecycle replacement processes, we have installed free cooling chillers at our south east facility to replace our previous adiabatic cooling system.

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Our high efficiency free cooling chillers



Free cooling chillers help us to adhere to strict sustainability and efficiency standards whilst enhancing performance at our south east facility.

Key features

➤ Energy efficiency

- **EC (Electronically Commutated) fans:** provide high efficiency and low power consumption.
- **Inverter-driven motors:** ensure energy savings and precise motor control at part loads.
- **Electronic expansion valves:** enhance control and efficiency by dynamically adjusting refrigerant flow.

➤ Sustainability

- By moving to the free cooling chillers we predict a reduction of site water usage by **70%**, contributing significantly to our sustainability strategy.

➤ 'Through wall' recirculating airflow topology

- Enables flexible rack power densities to meet diverse client requirements.

➤ Free cooling capacity utilisation

- Leverages ambient air for cooling, reducing reliance on mechanical cooling.

➤ Dynamic set points

- Adapts to changing environmental conditions to maintain optimal performance.

Benefits

➤ **Enhanced efficiency**

- Significantly reduces power consumption, improving overall energy efficiency.
- Supports flexible power densities, allowing for scalable, adaptable data centre configurations.

➤ **Reduced environmental impact**

- Contributes to reduced water usage and lower environmental footprint.
- Aligns with long-term ESG goals, supporting sustainable business operations.

➤ **Operational excellence**

- Improved temperature control and stability across varying load conditions.
- Enhanced reliability and longevity due to advanced componentry and simplification of cooling methodology.

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The result is complete alignment of our energy efficiency goals with those of our clients — a reduced carbon footprint and reduced cost.

Dominic Phillips: Datum CEO



Contact us

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