

Thermal containment solution for high-density data centre

Salute partnered with **Verne Global** to address overheating in rooftop chiller units during a record-breaking London heatwave, delivering a solution that improved operating conditions without structural modifications.



Project data

-  **Deployment location:** London, UK
-  **Deployment type:** Thermal containment design and implementation
-  **Scope:** CFD modelling, airflow optimisation, and live operational support

Our customer's business priority

- Maintain reliable cooling under extreme temperatures.
- Protect critical IT equipment and ensure operational continuity.

Problems our customer faced

- High heat levels in chiller units threatening performance.
- Structural constraints preventing major rooftop modifications.
- Need for a rapid, effective, and future-proof solution.

Solutions provided by Salute

- Designed and implemented a containment system to enclose chiller units and prevent hot air escape.
- Managed material delays and structural modifications to ensure timely completion.
- Leveraged CFD and airflow modelling to optimise thermal performance.

Business Impact

- **Reduced chiller temperatures by 7°C**
improving operational efficiency and reliability during extreme weather
- **Future-proofed cooling strategy**
enabling replication at other data centre sites and optimising equipment lifespan