

# VERNE GLOBAL

## VERNE GLOBAL CASE STUDY

### MAINTAINING OPTIMAL OPERATING CONDITIONS

Verne Global, a prominent data centre provider, encountered high heat levels in their chiller units during the summer of 2022 amidst a record-breaking heat wave in London. The situation prompted a strategic process to find a future-proof solution.

Keysource collaborated with third-party consultants to devise an effective solution. Leveraging Computational Fluid Dynamics (CFD) tests and air flow modelling, Keysource developed a thermal containment design system to mitigate overheating.

Securing planning permission for major modifications of Verne Global's rooftop chiller infrastructure was not an option. This constraint spurred the search for an alternative solution that could alleviate potential overheating without compromising the building's structural integrity.

#### Services Delivered & Type of Work:

- Keysource designed and implemented a containment system to enclose the chiller units and prevent hot air escape.
- The team managed material delays and structural modifications to ensure timely project completion, meeting the requirements of structural engineers.

#### Benefits:

- The containment system reduced temperatures by 7°C during exceptionally hot weather.
- It enhanced Verne Global's ability to operate in extreme weather conditions.
- The system provided shade for chiller coils, improving overall efficiency.
- Verne Global plans to replicate the solution at other data centre sites.

#### QUOTE

"The Keysource team demonstrated exceptional expertise and dedication in delivering a solution that met our specific requirements. Despite the supply chain challenges during the material procurement phase of the project, the team worked tirelessly to complete the project on schedule."

Will Drury, Operations Manager – Verne Global

"Keysource is proud to have partnered with Verne Global on this project. The successful implementation of the containment design system highlights our ability to provide innovative and effective solutions to complex engineering challenges. We are committed to maintaining open communication with our clients and ensuring their satisfaction throughout the project lifecycle."

Justin Bewick, Senior Account Manager – Keysource