excool
advanced data center cooling

VIRTUS, LONDON 2

OVERVIEW

Headquartered in London, VIRTUS is a UK centric data centre operator delivering mission critical facilities within the M25 greater London region.

VIRTUS' expanding portfolio currently comprises 28 MVA of power in 21,180 sq.m. of data centre space in outer London's Zone 5, interconnected to key sites in London by 20 leading network carriers.

CLIENT REQUIREMENT

To develop a second London site using the most up to date technology. To achieve this with a world beating efficiency and PUE below 1.2 with a cooling system that could be deployed with modularity to match the IT growth of the datacentre. The facility to be designed to comply with the Uptime Institute's TIERIII resilience classification. A total facility of 6000m2 of nett technical space rated at 2kW per m2. A total IT power availability of 11.4MW split over 6 datahall modules per building. Each of the eight data halls.

BENEFITS AT A GLANCE
- Ability to offer fixed PUE of 1.20
- Significant annual energy savings
- Significant electrical infrastructure CAPEX saving
- Lower electrical infrastructure demands = Increase in available IT

EQUIPMENT SELECTED
42 x 400kW Excool Units with integrated 90kW top-up DX system to maintain 24°C supply temperature at all times.
The Excool indirect adiabatic and evaporative cooling system was chosen for its efficiency, lower electrical support infrastructure requirements, modularity and enhanced resilience.

"The deployment of Excool technology in VIRTUS Data Centres not only demonstrates our commitment to being part of a new, innovative and intelligent group of data centre providers but also that we are serious about our green credentials. Finding a balance between innovation and responsibility is very important to VIRTUS Data Centres, and the Excool deployment is another example of our commitment to the environment."
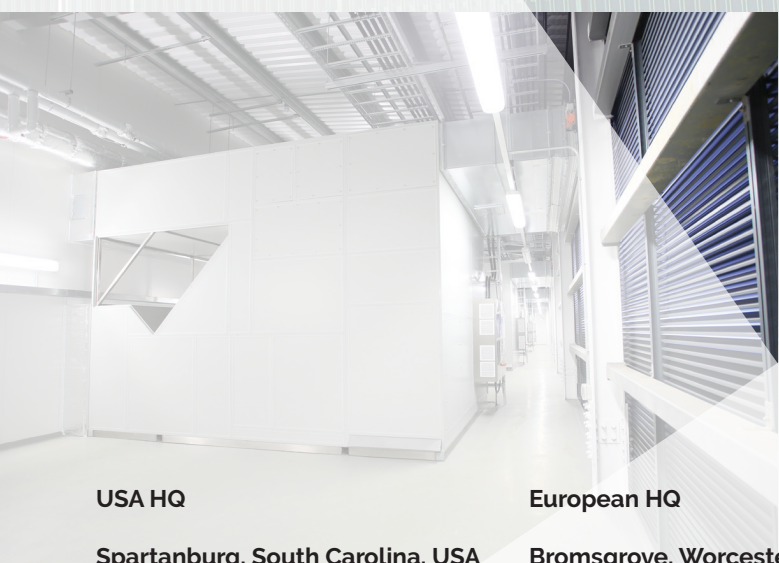
Neil Cresswell, CEO

CLIENT BENEFITS
The Excool system was chosen for its ease of use, but there proved to be other operational savings on top of quick installation, user friendliness and easy maintenance.

The Excool system has minimized the amount of energy required to run its cooling system, while maximizing the amount of IT power available to customers.
Virtus are able to pass the benefits of these savings on to its clients in the form of cheaper service charges.

Excool's modular system allows Virtus to build its cooling infrastructure by increments, adding units in direct proportion to the number of racks and cabinets customers buy. This, according to Virtus, has been the key to minimizing costs, as the cooling system become closely mapped to the IT infrastructure and units are not over allocated.

INDUSTRY RECOGNITION
The developments has achieved the Uptime Institutes TIERIII classification for design. This is the first time this certification has been awarded to a datacentre using this technology in London.

TIER III
DESIGN™
Digital Realty
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UPTIME INSTITUTE CERTIFIED

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