Secure I.T. Environments Upgrades Data Centre Cooling at Royal Devon University Healthcare NHS Foundation Trust

New infrastructure will cut running costs and enables more efficient use of free cooling, achieving ROI in under three years.

LONDON, UNITED KINGDOM, April 25, 2024 /EINPresswire.com/ -- Secure I.T. Environments Ltd (SITE), one of the UK's leading design and build

Secure I.T. Environments logo

companies for modular, containerised and micro data centres, has today announced the completion of data centre cooling upgrades at Royal Devon University Healthcare, NHS Foundation Trust, that will dramatically reduce energy costs, achieving ROI in under three years.

> Maintaining climate conditions within a data centre is critical, the ASHRAE TC9.9 2016 thermal guidelines now give confidence to operators that they can control the indoor temperature at higher levels"
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> *Chris Wellfair, projects director at Secure I.T. Environments*

The works, which are the latest in a series of projects SITE has conducted for the trust in recent years, replace existing cooling infrastructure with three new indoor units that improve efficiency. The free cooling solution, allows the data centre to operate in a higher temperature free cooling configuration for a greater proportion of the year, taking advantage of ambient temperatures and lowering running costs.

Each unit combines direct expansion air cooling and an energy efficient FreeCool circuit, as well as including built-in compressors for the direct expansion circuit. External Hybrid Heat Rejection (HHR) units were also fitted on site. The new installation is projected to enable the data centre to achieve a PUE of 1.14, and Cooling PUE of 1.10

Chris Wellfair, projects director at Secure I.T. Environments, said, "The primary source of operating expenditure (OPEX) for data centres is electricity. Whilst maintaining the climate conditions within a data centre is critical, the ASHRAE TC9.9 2016 thermal guidelines now give

confidence to operators that they can control the indoor temperature at higher levels. This combined with the efficiencies gained with new equipment will dramatically lower energy costs at RDEF and achieve a return on investment in under three years."

The installation was conducted over three phases, ensuring the data centre could remain live supporting hospital and patient services. Secure I.T. Environments was responsible for the decommissioning of existing units, installation of new equipment, including electrical works, configuration and testing.

A headshot of Chris Wellfair, Projects Director

About Secure I.T. Environments Ltd
Secure I.T. Environments Ltd is a UK company specialising in the design and build of energy efficient internal/external secure modular, containerised, and micro data centres, including mechanical and electrical infrastructure. The company has established an enviable relationship with its clients based on trust and mutual respect by working as a team with the client and its project team.

The company offers a "Total Solutions Package" to the private, healthcare, education, and government sectors, as well as co-hosting companies in the UK and offshore, by way of design, implementation, and installation management services for projects from small stand-alone computer rooms to large public sector contracts and co-hosting locations. All rooms are designed to meet the latest test standards, now regarded as the benchmark standard for modular rooms being installed throughout the UK and Europe.

Secure I.T. Environments' primary aim is to ensure that clients' critical infrastructure components are protected against all external threats in a suitably protected modular room or ModCel containerised environment. To this end the company has established long-standing partnerships with its manufacturers, who are at the forefront of R&D, to ensure the highest level of physical protection and energy efficiency is maintained.

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