

## DATA CENTER 2.0

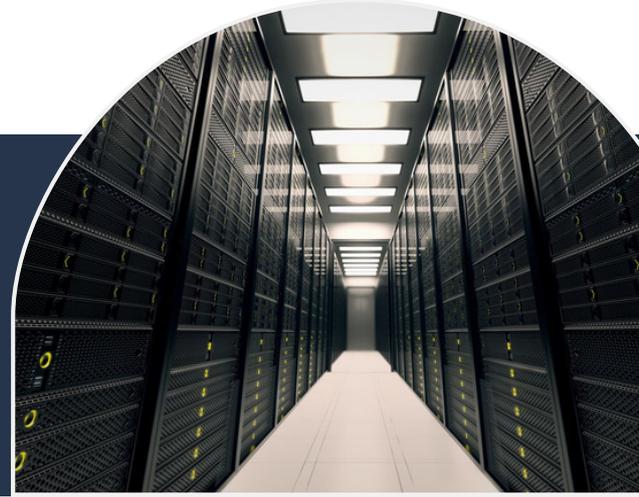
Securing climate-proof, and future-proof data



ThermaSmart® PRO



Certificates



### GOALS

Having wide experience in the installation of insulation systems, a partnership with contractor 'Osorno Group' was to result in a suitable solution ensuring a sustainable performance of the distribution systems. The cooling system, consisting of 4 chillers processing 1,600 tons of refrigeration, was to be renovated – including all elbows, tees, valves, and pumps – to secure an efficient, reliable, and future-proof energy infrastructure. Due to the unique challenges of the Floridian climate, water and sun resistance as well as hurricane-proof mechanical strength was of primary importance when reviving the thermal protection of the chiller systems.

### PROJECT PROCESS

Securing the critical storage and handling for a wide variety of users 24/7, in heat-blazing server rooms requires a sound and stable level of cooling to ensure safe operation. Combining those challenges with the tropical climate of the Sunshine State requires an efficient and sustainable cooling system in order to warrant a headache-free operation while keeping costs at a minimum. On top of that, the chillers in the Doral data center are located outside the building under both extreme sun, as well as extensive rain – inherent to Florida's climate. Lifeguarding the performance of the cooling system required a state-of-the-art thermal insulation system. Condensation, a common enemy when it comes to cooling leading to water accumulation, poses a significant risk on such installations, let alone the consequent corrosion, and water and energy losses. A pilot test was carried out in order to verify that the proposed solution based on ThermaSmart® PRO insulation responds to challenges such as resistance, condensation prevention, and stable insulation performance. Ideally, the base maintenance group should be able to intervene in the systems immediately if necessary.

### RESULTS

Within an exclusive 4-day training for the installation company by our experienced team in Latin America, high and professional installation standards were ensured. The training focused on insulation techniques, with a full focus on ThermaSmart® PRO, a true eye-opener for the insulators on the scene. The high insulation value and easy handling of ThermaSmart® PRO secured a quick, efficient, and durable solution in the humid climates of Florida. It only took 4 weeks for the renovation of the entire cooling system. Due to the choice of ThermaSmart® PRO, the risk of condensation is completely eliminated by the integrated water-tight barrier of the material. This data center is now perfectly equipped to ride the digital wave for years to come.

"We really appreciated the installation of ThermaSmart PRO due to its extraordinary properties. In a one-on-one, ThermaSmart PRO is proving its superiority as a durable solution in a retrofit project developed in this data center."

**Guillermo Araujo**  
Business Development Director GPipes

### PROJECT INFORMATION

 Doral, Florida, United States

- Duration: 4 weeks
- 4 chillers processing a total of 1,600 tons of refrigeration

### APPLICATIONS

- Airconditioning & Cooling Systems

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