



Make IT cooling sustainable

Free-cooling redefined:
a Uniflair cooling solution.

The high-efficiency, water-based system
for large and extra large data centers



se.com

Life Is On

Schneider
Electric



Business sustainability

Industry leading total cost of ownership delivered by a single solution provider.

Environment sustainability

Best in class in reducing energy, water, and refrigerant usage.

Growth sustainability

Modular and easy to expand. Meet customer requirements over time.

A Uniflair Cooling solution reshaping free-cooling on water-based systems

Cooling design guidelines for large data centers are constantly evolving to increase efficiency levels and achieve real sustainability. Water economization continues to be one of the most used cooling systems in modern data centers. Schneider Electric pushes this trend through new frontiers with the combination of two new leading products.

In the white space: Uniflair Room Cooling HXCV (120 - 250 kW)

Perimeter chilled water air-conditioners with underfloor fans designed to maximize cooling capacity while limiting their footprint. Optimized for high temperature operation, they deliver outstanding savings in energy cost.



In the grey space: Uniflair Chillers DSAF (400 - 1200 kW)

Innovative free-cooling trim chiller with integrated logic to maximize system efficiency, leveraging on free-cooling as primary source.



Minimize operating costs through cutting edge cooling technologies

Reduced dependency on mechanical cooling

- Design is based on free cooling and compressor usage is minimized (OPEX reduction): total free cooling achieved at higher ambient temperature than other units available in the market
- Extension of water temperature range up to 32/20°C facilitating the improvement of free-cooling operation throughout the year
- Smart management of three operating modes — total free-cooling, mixed, and total mechanical — to provide the best efficiency at any working condition

Outstanding Energy Efficiency Ratio (EER) in the white space

- Room cooling units optimized for high temperature operation with high values of EER
- Optimized room air flow management adjusts power consumption according to actual IT load and save energy

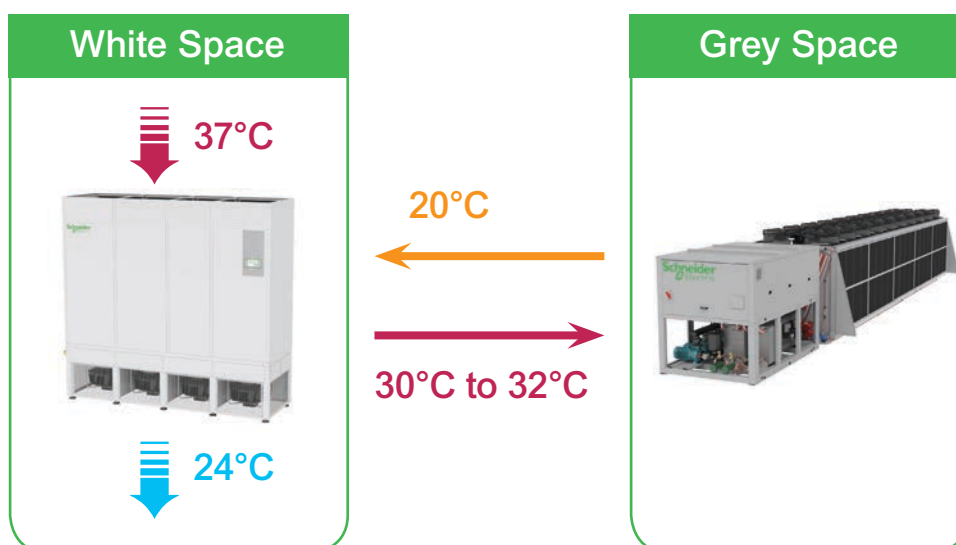
Minimized water usage

- Advanced adiabatic system with water recirculation to improve seasonal efficiency and optimize Water Usage Effectiveness (WUE)

Up to 30%
savings in
energy cost¹

pPUE < 1.05¹

System partial Power
Usage Effectiveness



1. Data calculated in mid climate conditions

Real capital investment savings for your business

Integrated solution

- A pre-engineered, all-in-one cooling solution ensuring efficiency and cost savings in system management

White space optimization

- Room cooling units with high specific capacity per footprint reduce the number of units needed in the white space with consequent savings in installation cost

Reduced impact on cooling infrastructures

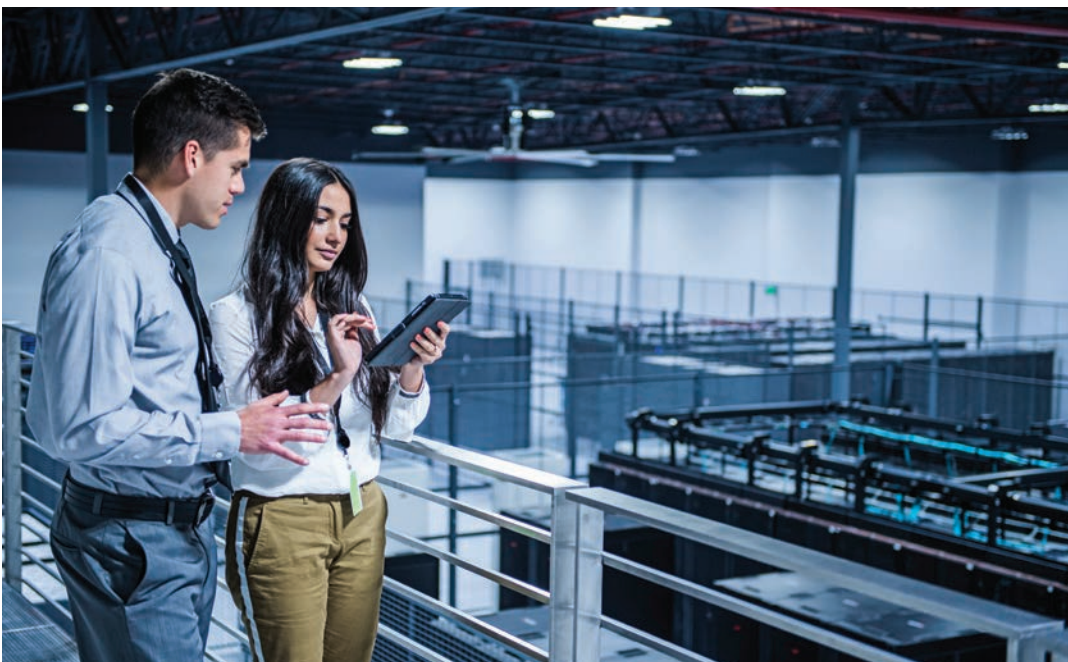
- Reduced chiller compressor usage means smaller compressor size (CAPEX reduction) and minimized impact on the electrical infrastructure
- Less power consumption reduces cost of electric infrastructure
- Less units and lower water flow reduces cost of the hydraulic and pumping system
- All hydronic components related to cooling system (valves, pumps, piping) are embedded in the unit for simplified installation

Dependency on water is a choice

- The adiabatic option provides the opportunity to maximize annual efficiency. Total cooling can also be provided in dry mode with full compressor backup, thus avoiding the use of any additional water system

Modularity

- A cooling system designed as modular technologic bricks to ensure speed of deployment, easy growth, and configuration



End to end solution

One business partner, an integrated solution

- A single, reliable solution provider
- Avoid on-site design and validation choosing a pre-designed and pre-engineered solution
- Products connection and optimization is a key solution feature
- EcoStruxure™ Ready solution



Get all the benefits of Uniflair Cooling end-to-end capabilities



Global commercial
engagement



Tailored supply chain
and project execution



Tailored products
and solutions



Specialized ongoing
service and support



Wide test
capabilities

Make your data center sustainable. This is the next frontier in IT cooling.



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Schneider Electric Industries SAS
35, rue Joseph Monier - CS 30323
F92506 Rueil-Malmaison Cedex