

Sustainable cooling for AI

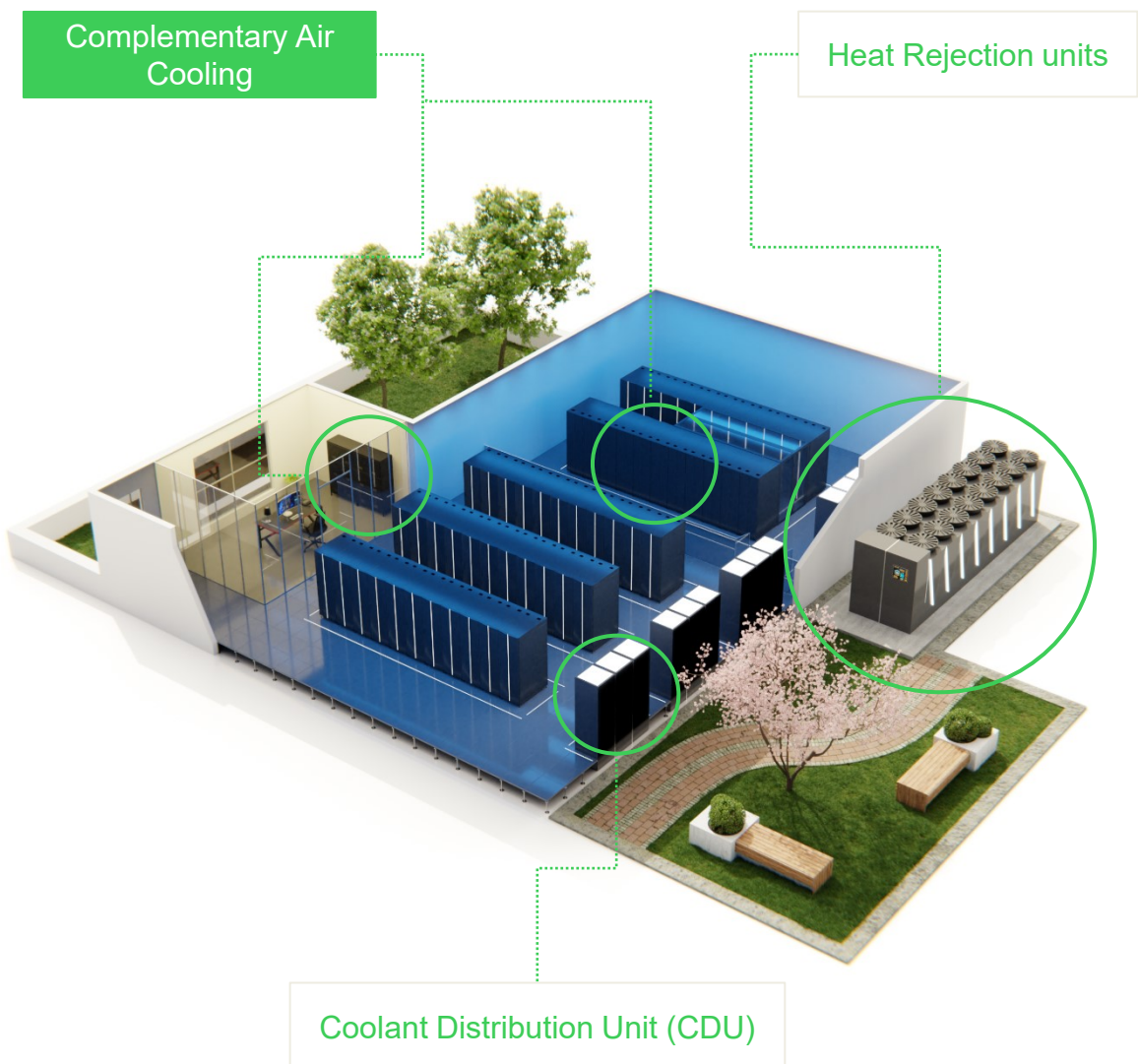
InRow High-Density Air Cooling
With Warm Water



Liquid Cooling as a game changer

Multiple Liquid Cooling solutions for each applications

Liquid cooling requires an innovative, end-to-end, but agnostic approach. From white space to heat rejection, our complete and broad cooling portfolio supports you in the next challenges with liquid cooling.



InRow High-Density Air Cooling with Warm Water

Proven and efficient close-couple method for cooling high-density server racks.

While Liquid cooling captures approximately 80% of the heat, the remaining 20% is rejected to air. InRow cooling is the most flexible, close-couple method for efficiently cooling the servers while remaining independent of the server rack.



BENEFITS

- ENERGY AND SPACE EFFICIENT
- HIGH PERFORMANCE
- SEAMLESS INTEGRATION
- HIGH DENSITY

CONFIGURATIONS

- CHILLED WATER
- DIRECT EXPANSION

UNIFLAIR INROW COOLING



EFFICIENT

Up to **40kW** capacity with warm entering water temperatures



COMPACT

Compact footprint solution to be installed next to liquid cooled server racks



ADAPTABLE

Suitable for heat removal of air-cooled components in **Direct to Chip** liquid cooled servers

Benefits of High-Density Air Cooling With Warm Water

Innovative design and energy efficient method for effectively cooling high heat density applications

Sustainable

- Warm entering water maximizes total cooling system efficiency.

Quiet Operation

- Variable speed, sound damped fans minimize data center sound level.

Intelligent

- Multiple control modes for contained and open-air deployments.
- Supports remote air temperature and pressure differential sensors.
- Interunit coordinated operation.
- Remote monitoring and control capabilities.

Easy installation and serviceability

- Casters allow for easy movement inside the white space.
- Hot swappable fans and slide out electrical panel expedite repairs

Fault tolerant

- Easily design in redundant air-cooling units
- Integrated Automatic Transfer Switch (ATS) for dual-input power feeds

Compact footprint

- Minimizes whitespace consumption while remaining independent of server racks.
 - Width 300mm (12 in.)
 - Depth 1095mm (43 in.)
 - Height 1991mm (78 in.)

Simplified design

- Using warm-water cooling avoids having to install a dedicated low temperature chiller.

Global

- Global applicable, UL rated

Future Ready

- Variable cooling capacity and airflow automatically detect and adapt to evolving server requirements.

InRow High-Density Air-Cooling main features

User interface and network card



Remote Sensors



Active Flow Control
Pressure Sensor



Remote Temperature
Sensor

- 1 Color Touchscreen HMI
- 2 Cybersecure Remote Monitoring
- 3 Dual-Input Power ATS
- 4 Sound Damped Variable Speed Fans
- 5 Low water-side pressure drop
- 6 Hot swappable fans
- 7 Slide Out Electrical panel
- 8 Self regulating water control valve
- 9 Leveling Feet
- 10 Multiple control modes for temperature / pressure sensors

LIQUID COOLING adds
some complexity challenges

Schneider Electric's complete
solution simplifies design and
supports in the transition

Life Is On



To learn more about Uniflair Room Cooling Solutions contact your Schneider Electric representative or visit se.com/cooling

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