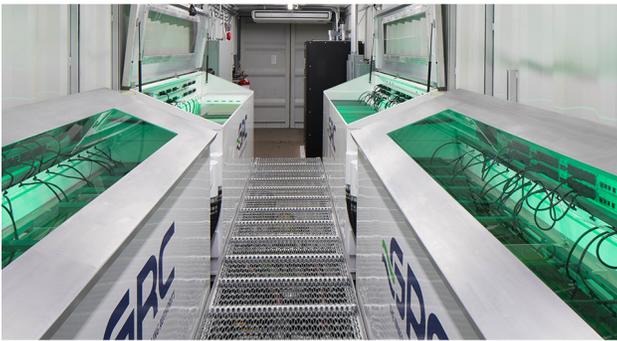


Modular, Immersion-Cooled Data Center



Our Deployments Are in Twenty-One Countries Across the Globe



GRC immersion cooling drives mission-critical systems for these and many more organizations.

Our ultra-efficient ICEtank “data center in a box” is built upon our proven immersion cooling technology. Completely self-contained and environmentally resilient, each unit comes fully equipped with ICeraQ[®] immersion-cooled racks, enabling you to deliver powerful, reliable processing in places you never thought possible. You supply water, power and networking — we do the rest.

Features & Benefits

- Cools up to 46 kW/rack
- Cuts cooling energy by up to 95%
- Provides an mPUE of 1.05
- Lowers upfront costs up to 50%
- Reduces server power draw 10-20%
- Compatible with all leading OEM servers
- Fast deployment: 14 to 16 weeks

Common Applications:

- Add computing in remote, outside locations
- Great for edge computing and telecom applications
- Overcome space or power constraints
- Deploy edge or hybrid cloud computing
- Surmount rising energy costs
- Quickly add capacity

Includes:

- 20’ or 40’ ISO shipping container
- Rack(s) filled with our high-performance, Earth-friendly, synthetic ElectroSafe[®] coolants
- Coolant Distribution Units (CDUs)
- Cooling towers including plumbing up to CDUs
- Mirrored system with 2N-redundant pumps
- Rack-mounted service rails and integrated server lift
- All electrical (power distribution, breakers, panels, etc.)
- Fire detection system
- A/C unit(s) for technician comfort
- Schneider Electric’s Machine Advisor cloud based and local monitoring capabilities with configurable PagerDuty email alerts
- One-year parts limited warranty against defects in materials and workmanship.



Modular Design



Self Contained



Location Flexibility



Local Service & Support



Quick Deployment



Environmentally Resilient



Cost-Effective



Green Tech

Experience the Freedom to Add High-Density Compute Capacity Anywhere - Easily

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ICEtank[®] Models IT20/IT40



Product Specifications

	IT20	IT40
Number of Immersion Cooled Racks	4 x 42 U	8 x 42 U
Rack depth (ear to rear)	1041 mm	1041 mm
Number of Cooling Distribution Units (CDU)	1	2
Power Requirements	380-415 VAC ¹	
Cooling Capacity/ Per Rack Density ²	184 kW 46 kW	368 kW 46 kW
PDU Options	2x 23 kW or 2x 46 kW (@2N redundant) ³	
Mechanical PUE	1.05	
Redundancy ⁴	Coolant Pumps: 2N Control System: 2N	
Structure	20' ISO HC Container	40' ISO HC Container
Footprint	20' x 8'	40' x 8'

Power & Water Specifications

Final Heat Rejection Options ⁵	Flexible Options: • Adiabatic Coolers • External Water Supply
Water Evaporation	2-3 gpm intermittent (standard garden hose)

Infrastructure / Site Requirements

Client to Provide	Access to power & water Grade level concrete pad Ongoing water treatment
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Available Options

Physical security options: Key lock, biometric, or access card
Backup Power: Standalone UPS and generator modules available

Monitoring and Reporting

Platform	Schneider Electric's Machine Advisor cloud-based DCIM and local DCIM hooks
Alerts	Configurable email alerts with PagerDuty application
DCIM/BMS Integration Protocols	Modbus, BACnet, and RESTful API
Data Measurements	Heat load Operating temperatures (water and coolant) Operating pressures (water and coolant) Power consumption Pump speed Rack temperature (multiple locations) Liquid level (multiple locations) System health, diagnostics, & early fault detection

Delivery & Installation

Lead Time	Ships 14 to 16 weeks after receipt of Purchase Order
Shipping Terms	Ex-Works
On-site Installation & Training	Seven to ten days for the first unit, plus five to eight days for every subsequent unit.

Warranty⁶

One-year parts limited warranty against defects in materials and workmanship, includes phone support and GRC system alert management service. additional cost.

Compatible with Leading OEM Servers



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¹ External 480 V transformer available.
² High density/custom configurations available.
³ Additional cost option.
⁴ Additional redundancy options available.
⁵ Zero water use options available in climates where the design dry bulb temperature does not exceed 86 °F/30 °C. Additional costs apply.
⁶ Warranty is void if ICEtank units are run outside of their operating parameters defined in the installation specification.