QScale

Q01 Data Sheet

* Representation

Purpose-Built for High-Density AI Computing

Q01 Campus is a world-class AI colocation facility designed to support the most demanding training and inference workloads. Purpose-built for ultra-high-density a and advanced liquid cooling, Q01 combines peak efficiency with seamless scalability—powered entirely by renewable energy.

Engineered for Performance and Efficiency

Every aspect of Q01 is optimized to meet the real-world requirements of modern AI and HPC infrastructure. With robust power delivery, high-capacity cooling systems, and a modular layout, the campus enables reliable, energy-efficient operation at scale.

Future-Proof Your Business With:

- → Customized cooling solutions, including liquid cooling directly at cabinet
- → Private substation with two distinct live feeds from the utility provider
- → Over 600 kW per cabinet
- → Complete scalability and flexibility
- → Lowest carbon impact

100% clean and renewable energy

Lowest electricity rates in North America

Stable and predictable electricity pricing

"The AI era demands infrastructure built for scale, density, and efficiency—QScale was designed from day one to power this revolution."

— Martin Bouchard,
Co-founder & President of QScale

2023 WINNER DCD >Awards North American Data Center Project of the Year

Q01 Campus Technical Specifications

CAMPUS	
Located in Quebec City area, Canada	Best-in-class energy efficient facilities
Close to Quebec City International Airport (YQB)	World-class telecommunication infrastructure
Brand-new facility with 142 MW total power	Unique, ESG-friendly energy recovery
QScale-owned high-voltage electrical substation with two distinct live feeds	

BUILDING SPECIFICATIONS	
Total building space: ~930,000 sq. ft.	Concrete floors with high load per sq. ft.
White space: ~39,000 sq. ft. per phase, total ~313,000 sq. ft.	Flexible, adaptable data room space; dedicated suites available
Modular design for rapid customization and deployment	Tier 3 compliant design

POWER	
110 MW protected customer IT load	100% clean and renewable energy
Medium-voltage internal power distribution (2N redundancy)	Low and predictable electricity rates
Industrial-grade medium-voltage UPS systems	Reliable and robust electrical grid
240/415 V circuits to cabinet	Supports over 600 kW per cabinet

COOLING	
Full free cooling for up to 80% of the year due to cold climate	Committed to a PUE of 1.2 or better
Water cooling system to the cabinet	Fully customizable air and liquid IT cooling solutions
Liquid cooling over 600 kW per rack	Direct-to-chip, rear-door, and immersion liquid-cooling options

SECURITY	
24/7/365 physical security monitoring	On-site security staff 24/7/365
State-of-the-art access control system	Video monitoring with HD security cameras and archives
Man trap entry system, bulletproof guard station	ISO 27001–certified information security management system

CONNECTIVITY	
Carrier neutral	Direct access to low latency, reliable and redundant telecom networks to major hubs in North America and Europe
Multiple entry points	

OTHER SERVICES	
Office space available with customer lounge area and free parking	Dedicated storage area available
24/7 Smart Hands & Eyes for technical assistance needs	EV charging stations
Shipping and receiving areas with multiple loading docks	

Q01 Campus

Ready to scale your AI infrastructure?
Get in touch at experts@qscale.com.