

Chiyoda Electrolyzer

Major Specifications

► Establishing Sustainable Business through Reliable Electrolysis System ◀



High Efficiency

Cutting edge efficiency of electrolysis to reduce electricity costs.



High Quality

High-quality cell stacks backed by automotive manufacturing expertise.



Compact & Maintainable

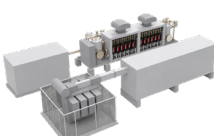
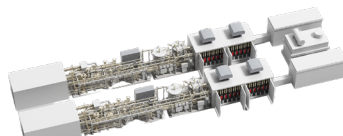
Containerized design with minimal downtime and easy maintenance.



O&M Services

Comprehensive after-sales support for reliable and optimized operation.

As of July 2026

Model	CTXE5000-2A	CTXE20000-2A
Type	PEM (Proton Exchange Membrane)	
No. of Stacks	12 (400 kW / Stack × 12pcs.)	48 (400 kW / Stack × 48pcs.)
Capacity	5 MW	20 MW
H ₂ Nominal Production Rate	Approx. 1,100 Nm ³ / h-H ₂ (Approx. 100 kg / h-H ₂)	Approx. 4,400 Nm ³ / h-H ₂ (Approx. 400 kg / h-H ₂)
H ₂ Purity (with dryer)	> 99.9 dry-mol% contains saturated water vapor (ISO 14687 Grade D for Fuel Cell)	
H ₂ Outlet Pressure	30 bar (g) *	
Pure Water (at Water Purification Unit Outlet)	Approx. 2 ton / h	Approx. 8 ton / h
Efficiency	AC 53-54 kWh / kg (System) including Water Purification, H ₂ Purification and Compression to 30 barg	
Minimum Turn Down Ratio	40 % per System	
Ramp up / down Speed	10 % / sec.	
Start-up time	20 min. (from Cold Standby to 100%load : All equipment stopped after N ₂ purging for maintenance)	
Site Condition	Outdoor (No need to install inside building) / Winterization (As Option)	
Typical 3D Model (excluding Water Purification, H ₂ Compression & Purification)		 As of 2025 end, to be updated

* System includes Water Purification, H₂ Purification and Compression to 30 barg.