



Generate **Hydrogen** On-Site

Hydrogen for High Temperature Thermal Processing



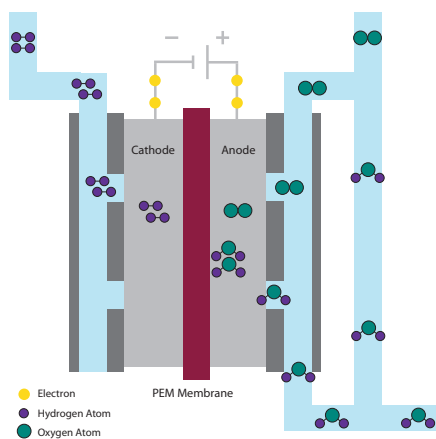
A Better Alternative to Delivered Hydrogen

- Safer with fewer compliance issues
- Better productivity
- Less expensive with predictable costs
- No contract commitments
- Avoid hydrogen deliveries and storage
- Eliminate runouts

Furnace Atmospheres Containing Hydrogen Provide Superior Brazing, Sintering and Annealing Results

If you use hydrogen atmospheres for materials processing, Nel Hydrogen can save you money and enhance safety and processing results. Our Proton® PEM water electrolyzers make delivered hydrogen obsolete, generating high purity hydrogen 24/7 for all your production needs at less cost. Nel Hydrogen systems are used by material processing leaders worldwide.

PEM TECHNOLOGY



Proton Exchange Membrane (PEM) water electrolysis splits deionized water (H₂O) into its constituent parts, hydrogen (H₂) and oxygen (O₂), on either side of a polymer electrolyte membrane. When DC voltage is applied to the electrolyser, water fed to the anode is split into oxygen and protons while electrons are released. The protons (H⁺ ions) then pass through the membrane to the cathode where they meet electrons from the other side of the circuit and combine into hydrogen.

NEL HYDROGEN



Nel Hydrogen offers hydrogen and nitrogen generation systems for enhanced product quality, reliability, maintainability and support.

All products are supported with 24/7 technical support capability and field service technicians. The generators are standardized, conservatively engineered, proven systems that provide many years of reliable gas generation with minimal maintenance needs.

Let us assist you!

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