

Gas Barrier Evaluation Systems for PEM

Proton exchange membrane testing

Model GTR-30XFC



GTR-FC is engineered to test proton exchange membranes (PEM) against two critical parameters: a wide range of temperatures and relative humidities. Humidifying both sides of the PEM approximates the operating conditions of a PEM fuel cell.

This GTR-FC system contributes to enhancements in the development and evaluation of PEMs under closely controlled fuel cell operating conditions. The proton exchange membrane testing systems use an isobaric pressure method to test the permeability of PEMs.

This allows either or both sides of the test cell to be humidified, so that permeation of hydrogen, oxygen, CO₂, water vapor, etc can be accurately and reproducibly achieved under normal working conditions. These systems are designed to withstand high temperatures and pressures. ISO 15106-4

- JIS K-7126-2 • ISO 15105-2
 - Accurately analyzes permeability of proton exchange membranes.
 - Testing of hydrogen, oxygen, nitrogen, etc., as well as liquids and vapors available.
 - TCD & FID detection systems ensure accurate and reproducible results.
 - Equal pressure method (both sides of test specimen humidified).
 - Manually operated and fully automated systems available.
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