

News

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Power+Energy to launch 2nd-gen PE9000MZ purifier in Q1/2012

Building on the global launch in May 2010 of its PE9000MZ series purifiers, Power+Energy Inc (P+E) of Ivyland, PA, USA, which makes palladium-membrane-based hydrogen purifiers for the compound semiconductor and energy industries, has now finalized specifications for a second-generation version, to be introduced in early 2012. The unit will continue to offer what is claimed to be the smallest footprint for a Class 1, Div. 2-compliant palladium alloy hydrogen purifier, along with a number of improvements to simplify installation, service and user access.

Key new features for the PE9000MZ Series 2.0 include a modified interior layout featuring a Z-purged control panel and AC power box mounted on the door to allow access to the process cabinet without disrupting the purge on the electrical boxes. There is a simplified valve layout providing easier access to the purifier cells and increased interior room for optional features including pre-treatment modules for the removal of oxygen or sulfur impurities, a mass flow meter, a pressure regulator and CDA ventilation. There is also a dedicated port for sampling of the purified hydrogen and a port for testing the internal hydrogen leak sensor without having to open the cabinet or disrupt operation.

The new series will continue to feature P+E's micro-channel palladium membrane technology, providing high-reliability, consistent 9-9's purity hydrogen for a flow range of 2-176NM3/hr (32-2900slpm or 68-6144scfh) under nominal conditions. The firm claims that the combination of consistent purity, low cost of ownership and range of flow capacities is unmatched across all types of hydrogen purifiers.

P+E ships purifiers to new customers in China

Power+Energy says that it recently shipped a model PE9070MZZ (70NM3/hr nominal capacity) to an LED maker in China. It has also shipped a model PE2100MP purifier to another electronics firm. Both are new customers that expand the installed base of P+E H2 purifiers within China.

New hydrogen purification White Paper

P+E has issued a new White Paper 'A Durable Gas Purification Technology for High-flow Hydrogen in LED, Power Device and Photovoltaic Fabrication' (available on its website) reviewing recent innovations in palladium membrane technology and the impact on purifier performance and reliability.

Tags: [Power+Energy Hydrogen purifiers](#)

Visit: http://powerandenergy.com/pdfs/Durable_Pd_Technology.pdf

Visit: www.powerandenergy.com/pe9000mz2.html

Power & Energy is now applying its hydrogen expertise to the fuel cell vehicle refueling market. Power & Energy has recognized that highly compact, low cost, and efficient hydrogen generators that can convert existing liquid fuels to hydrogen at the refueling station will enable the rapid development of the hydrogen refueling infrastructure

that fuel-cell vehicles will require. The company's expertise in the design and manufacture of micro-channel gas processors provides the basis for this exciting new venture.

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