



Power+Energy™

Fueling the Hydrogen Economy

Power+Energy Ships Next-Generation Hydrogen Purifiers

Micro-channel membrane technology results in high capacity and low cost of ownership

Media Advisory

IVYLAND, Pa./EWORLDWIRE/May 5, 2009 --- Power+Energy Inc. (P+E) has shipped two high capacity micro-channel hydrogen purifiers to a customer located in the Middle East. Each of the two model PE91370S units shipped has the capacity to purify 2,900 cubic feet per hour (82 cubic meters per hour) of hydrogen at standard operating conditions. Using advanced membrane technology developed under a series of Defense Department contracts, Power+Energy has increased the maximum capacity of its PE9000S series purifiers by 300 percent while still maintaining the smallest system footprint among its competitors.

P+Es proprietary micro-channel membrane design greatly increases membrane area per unit volume and reduces floor space required by up to 75 percent. P+E also employs advanced, energy-saving technology, reducing power consumption by 80 percent versus comparable systems. When combined with the 98 percent hydrogen recovery efficiency, the result is the lowest cost of ownership available while consistently delivering high purity hydrogen with less than one part per billion (ppb) total impurities.

Power+Energy Inc. offers a wide range of micro-channel hydrogen purifier capacities for semiconductor and photovoltaic device manufacturing, materials processing, instrumentation and laboratory use. In addition, this purifier is ideal for supporting fuel cell applications, delivering hydrogen that complies with the SAE-J2719 guideline for automotive fuel cells. With the growing demand for hydrogen as an alternative fuel, P+E is seeing significant growth in purifiers used to clean up electrolytic hydrogen and other low purity sources.

In addition to its purifier products, P+E supplies hydrogen separation systems for removing hydrogen from reformed fuels including ethanol, diesel and military logistic fuels. P+E's micro-channel membranes offer both consistently high purity and high hydrogen recovery rates for both types of systems.

Power+Energy will be exhibiting its purifiers in booth 411 at the CS ManTech Conference to be held at the Marriott Waterside Hotel in Tampa, Fla., from May 18-20, 2009.

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CONTACT:

Al Stubbmann
Power+Energy, Inc.
106 Railroad Drive

Ivyland, PA 18974
PHONE. 215-942-4600 x 17
FAX. 215-942-9300
EMAIL: al.s@powerandenergy.com

Toshi Wakui
Power and Energy Japan
Sadoya #2 Bldg, Room 103
5-5-12, Utsukushigaoka, Aoba-ku
Yokohama-city, Kanagawa-pref 225-0002
PHONE. 045-905-2145
FAX. 045-905-2146
EMAIL: twakui@powerandenergy.jp
<http://www.powerandenergy.jp>

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AVAILABLE MEDIA: Photo: P+E High Capacity H2 Purifiers (size: 87.0 k)
Dual Micro-Channel Pd Purifiers
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