

Hy9 introduces economic hydrogen purifiers for multi-billion dollar industrial & clean energy markets

Hopkinton, MA – Hy9 Corporation (<http://www.hy9.com>), a leading manufacturer of hydrogen generators and hydrogen purifiers being deployed around the world for use in portable and stationary/backup power, industrial gas and transportation applications, is introducing its newly designed HPS 689 Series of palladium multi-membrane hydrogen purifiers. In industrial markets, these systems are used for hydrogen purification, recycling and generation for electric power generator cooling, glass and semiconductor manufacture and metal treating. In energy and transportation markets, Hy9's purifiers are used in power generation, combined heat and power, backup power, vehicle refueling and powering fork lift trucks. These scalable HPS purifiers are presently available and cost effective for applications requiring hydrogen capacities to 2,000 scfh.

"Hy9's palladium membrane purifiers ensure reliable production of high purity hydrogen, eliminating the need for other less reliable, uneconomic or ineffective purification techniques. When coupled to fuel reformers and PEM fuel cells to generate power, our hydrogen generators and hydrogen purifiers contribute to significant efficiency and performance gains due to our industry leading purification technology," states Brad Bradshaw, Hy9 CEO.

Pure Hydrogen - Hy9 purifiers produce ultra pure hydrogen that exceeds the stringent requirements of the Society of Automotive Engineers for fuel cell applications: SAE J2719. A durable palladium/copper membrane is used to separate hydrogen from hydrogen-containing mixtures. HPS purifiers ensure reliable production of high purity hydrogen without contaminants or the need for the complex process of exchanging purification adsorbent beds.

Robust and Reliable Designs - Hy9 Corporation's HPS purifiers represent 12 years of product development in planar metal membranes and incorporate patented diffusion bonded seal technology to provide reliable, maintenance free service. The palladium/copper alloy material is not subject to hydrogen induced metal fatigue during thermal cycles as are other palladium alloys freeing the operator from complex purging requirements. Hy9 has approximately 1,000 hydrogen purifiers operating in customer facilities with over 3 million hours of cumulative operation over a period of 10 years.

Economical - The cost effective utilization of active materials enhances the value of HPS 689 Series purifiers for large scale purification requirements. The HPS 689 Series achieves a 50% reduction in cost/performance over prior HPS designs.

About Hy9 Corporation

Based in Hopkinton, Massachusetts (USA), Hy9 Corporation designs, manufactures and sells low-cost, high-performance hydrogen generators and hydrogen purifiers for the portable power, stationary and backup power, industrial gas and transportation markets.

For more information on how Hy9's high performance hydrogen generation and purification solutions can deliver value to you, please contact:

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