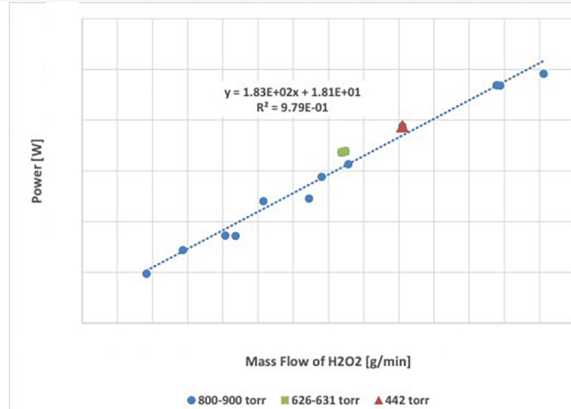


# RASIRC Patent Granted for Controlled Delivery of Hydrogen Peroxide Gas

*Novel method for generation of H<sub>2</sub>O<sub>2</sub> gas granted in US and Japan*

SAN DIEGO, CA, UNITED STATES, February 24, 2022 /EINPresswire.com/ -- [RASIRC](#) announced that the United States Patent and Trademark Office has granted Patent # US 11,154,792 B2 for a novel Method, System and Device for Delivery of Process Gas. The patent is applicable to RASIRC hydrogen peroxide products including the [Peroxidizer](#)<sup>®</sup>. The patent was also certified by the Japan Patent Office as Patent 6951321. The method enables more accurate and repeatable delivery of hydrogen peroxide gas into a wide range of flow rates, operating pressures, and temperatures.



mass flow control is managed by temperature regulation of the liquid source or bath. However, bath temperature increases with increased mass flow rate causing temperature non-uniformities, localized droop, and output instabilities. As the temperature increases the vapor pressure increases on a power curve. Error increases in a highly non-linear fashion. For example, H<sub>2</sub>O<sub>2</sub> vapor pressure change of 1°C at 90°C is 20 times larger than 1°C at 30°C, leading to 20X increased error at the higher temperature. Power control is based on the mass evaporated so the error does not increase with increasing bath temperature.

#### About the RASIRC Peroxidizer®

The RASIRC Peroxidizer provides a safe, reliable way to deliver high-concentration hydrogen peroxide gas into ALD, annealing, gapfill, dry surface preparation, and cleaning processes.

#### About RASIRC

RASIRC transforms liquids into dynamic gases that power process innovation in semiconductor and adjacent markets. By commercializing molecules for lower temperature processes, RASIRC patented technology enables the manufacture of atomic-scale oxides, nitrides, and metals. Innovative products such as [Brute Peroxide](#), Brute Hydrazine, the Peroxidizer, and the Rainmaker Humidification Systems are being used to develop solutions for 5G, AI, IOT, and advanced automation.

What makes RASIRC a unique industry leader is our technical expertise and commitment to solving complex industry challenges for our customers. Our team of industry experts has a proven track record of beating larger competitors to market by efficiently delivering state of the art technology that reduces cost, improves quality, and dramatically improves safety. With our customers at the forefront of all we do, we continue to research, develop, and design innovative products that purify and deliver ultra-pure gas from liquids for the semiconductor and related markets. Contact RASIRC to help solve your complex problems.

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