

STEAM METHANE ADVANCED REFORMING TECHNOLOGY

Steam Methane Advanced Reforming Technology (SMART) Hydrogen—Because saving time, money and energy is just plain smart.

If your hydrogen needs are above 0.5 million scfd, SMART H₂ from Air Products is quite possibly the most economical and practical solution for your facility.



SMART H₂ plants provide significant savings in capital, maintenance and operating costs for facilities requiring hydrogen capacities above 0.5 million scfd.

Compared to traditional steam reforming hydrogen plants, SMART H₂ can help streamline your operations and reduce capital costs, energy costs and maintenance. What's more, these innovative hydrogen plants—fully shop-

fabricated and assembled on a reduced number of skids—can be delivered in less than ten months after ordering. Unlike traditional hydrogen plants that require months of start-up procedures and fine-tuning, SMART H₂ typically operates at design efficiencies within days after delivery to your site.

Strength in Numbers

Air Products is the leading third-party supplier of hydrogen, with more than 850 operating years of hydrogen/carbon monoxide plant experience represented by 35 (+ 2 U/C) steam methane reforming plants, one partial oxidation facility, 17 (+1 U/C) hydrogen purification facilities, six hydrogen liquefiers, and seven hydrogen and carbon monoxide pipelines around the world. For over fifty years, Air Products has operated air separation and gas plants to the highest standards of efficiency and safety.

What does this mean for you? Think of Air Products as an experienced resource on virtually all aspects of hydrogen, from engineering design to installation, start-up, routine operation, maintenance, troubleshooting and upgrades. Our hydrogen experts can provide you with clear, meaningful and commonsense options for your facility, resulting in a tangible difference in your plant's operations. Also, count on us for information and advice when considering usage patterns, operating responsibilities, health and environmental concerns and more.

SMART H₂ Technology

Features	Benefits
Simplified operations	Reduced operating and maintenance costs
Compact layout	Reduced construction costs
Rapid delivery and start-up	High reliability
High product purity (99.99% H ₂)	Options for higher purity H ₂
Remote and unattended operations	Strong technical support team
State-of-the-art, high efficiency reformer tubes	Reduced energy use

Major Markets

- Refining
- Petrochemicals
- Metal/ore processing
- Electronics
- Detergents
- Food processing

tell me more

This brochure offers only a brief overview of SMART H₂. Please contact Air Products at the most convenient location listed below for information.

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www.airproducts.com

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