

GAS UPGRADING SYSTEM

Improving hydrogen gas quality
to the highest specifications

Purification of hydrogen

The Hy.PURE systems are meticulously designed to convert hydrogen-containing gases into high-purity hydrogen, addressing various purification needs. They excel at upgrading mixtures by eliminating impurities or refining industrial-grade hydrogen. This comprehensive product line includes two containerized, user-friendly models: the Hy.PURE 100 and Hy.PURE 250. With their effortless installation, adaptability, and exceptional performance, they stand as top choices in the field of hydrogen gas purification.

PROCESS



KEY BENEFITS

- Improved hydrogen quality
- Reduced environmental impact
- High recovery rate
- High flexibility
- Autonomous and safe operation
- Range of different feed gases possible

SPECIFICATIONS

SYSTEM	Hy.PURE 100	Hy.PURE 250		Hy.PURE 100 & 250
INPUT			OUTPUT	
Flow	up to 100 Nm ³ /hr	up to 250 Nm ³ /hr	H ₂ recovery ^{1, 2}	up to 95%
Temperature	< 40 °C	< 40 °C	Purity	up to 99.999999% (8.0)
Pressure	5 - 14.0 bar(g)	5 - 14.0 bar(g)	Pressure	0 - 12.5 bar(g)
Turn-down	10 - 100%	10 - 100%	Temperature	Ambient
			Dewpoint	< -76° C
CONSUMPTION				
Instrument air	1.5 Nm ³ /hr	3 Nm ³ /hr		
Electricity ^{2, 3}	13 kWe	17 kWe		
DIMENSION				
Size	10 ft	20 ft		
Weight	3,750 kg	11,000 kg		

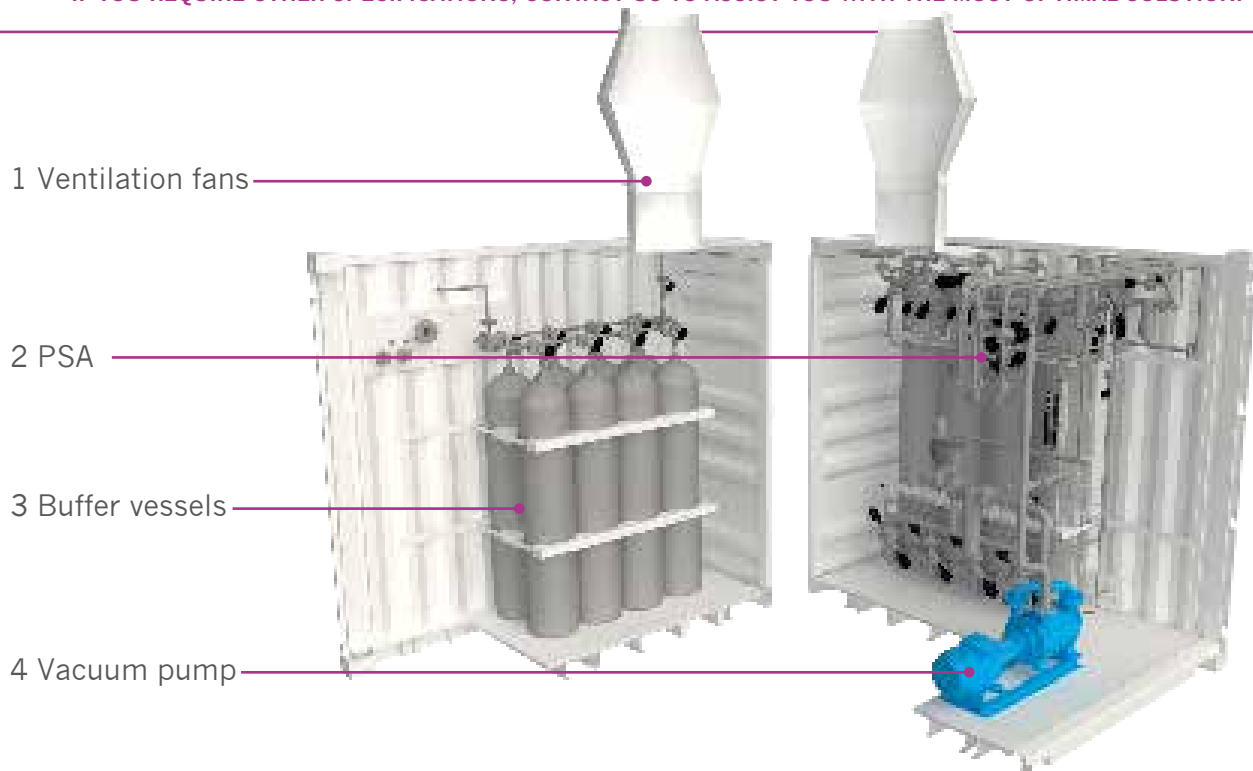
Optional offgas buffer can be implemented

¹ Based on inlet gas composition.

² With vacuum pump.

³ Pending availability of cooling water.

IF YOU REQUIRE OTHER SPECIFICATIONS, CONTACT US TO ASSIST YOU WITH THE MOST OPTIMAL SOLUTION.



All data and values are indicative and based on nominal and non-frost conditions. Values might differ due to local circumstances and feedstock characteristics. Normal condition (Nm³) is defined at a temperature of 0°C and pressure of 1.013 bar(a). No rights can be obtained from this brochure. Numbers shown are indicative.