

Recycling your process hydrogen exhaust isn't just good business. **It's smart business.**



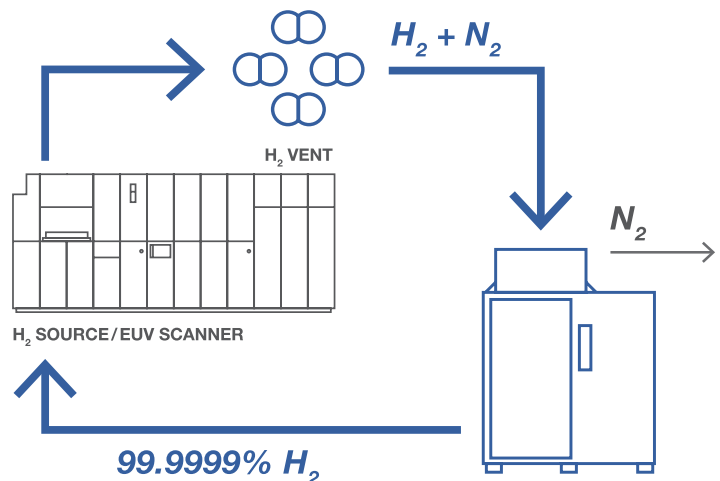
SKYRE

SKYRE's H2RENEW™ product provides on-site gas recycling to recover and purify process hydrogen, greatly reducing the reliability and logistics issues associated with trucks and cylinders.

H2RENEW recycles hydrogen onsite from EUV Scanners and provides a fresh, pressurized, re-supply of hydrogen at a fraction of the cost of delivered hydrogen.

To find out how SKYRE can improve your bottom line contact us at 860-652-9690 or visit:

skyre-inc.com.



H2RENEW™ 830 slm Hydrogen Recycling Specifications

SKYRE

A SMARTER WAY
TO A BETTER WORLD.

PERFORMANCE

Maximum H₂ Exhaust Flow Rate (+ 0-220 slm N₂)	kg/Day SLM (70 deg F, 1 atm)	100 830
Product H₂ Purity	%	99.9999
Product Water Content	ppmv	0.001
Product Dew Point	deg C (deg F)	-112 (-169)
Input Gas Pressure	barg (psig)	-0.007-0.07 (-0.1-1)
Product Hydrogen Pressure	barg (psig)	0-10.3 (0-150)
Typical H₂ Yield	%	>80
System Availability	%	>90

POWER SUPPLY

AC Supply Voltage	VAC (3-Phase)	480
Maximum Current Draw	A	100
Nominal Current Draw @ Maximum Load	A	90

ENVIRONMENT

Ambient Temperature		Indoor Rated
Relative Humidity	%	5 to 100 non-condensing
Altitude	m (ft)	0-1.981 (0 to 6,500)
Heat Rejection	kw	60

PHYSICAL

Dimensions	L x W x H (in L x in W x in H)	1.9m x 1.2m x 2.4m (74 in x 48 in x 94 in)
Weight	kg (lbs)	1633 (3600)
System Noise	dBA @ 1 meter	84

INTERCONNECT

Electrical	Type (3 Phase, GND)	4-Conductor 2 AWG
H₂ Out Connection	Compression	1/2"
H₂ Inlet Connection	MNPT	2"
H2Renew Waste Outlet Connection	NPT	1"
N₂ Supply (for Purge)	NPT	3/8"
Tap Water Connection	NPT	1/4"
Water Drain Connection	NPT	1/4"

CONTROL

Remote Monitoring Data Transmission		Ethernet
Local Communications		Ethernet

H2RENEW extracts hydrogen from the exhaust gas stream of your industrial manufacturing process, purifies and pressurizes it to your specifications and makes it available for reuse at your facility.

The result: recycled hydrogen with the same or better quality and lower cost than that typically being delivered by merchant hydrogen providers or produced by onsite generation technologies today.

SKYRE develops and manufactures innovative products based on a proprietary, low-cost, large format electrochemical platform. Developed for NASA, our H2RENEW systems provide hydrogen purification and recycling in a solid state device for industrial gas needs.

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