

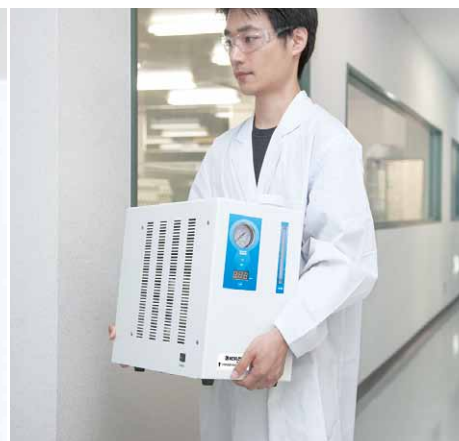
water electrolysis

HYDROGEN GAS GENERATOR



Hydrogen gas generator with water electrolysis. High-pressure gas regulation need not be applied. This easy-to-operate device provides a safe and convenient hydrogen supply environment.

It electrolyzes water, generating as much hydrogen gas as needed at the right time with 99.999% purity. The user is freed from carrying, replacing, and maintaining gas bottles. Moreover, it requires no large floor space for installation and is maintenance free.



Point

01. No legal work required

This device can generate as much hydrogen gas as needed from water electrolysis whenever one needs hydrogen for any application. The device does not store hydrogen. Because it does not use a pressure container for high-pressure gas, users are free from legal requirements and maintenance work. Therefore, it provides a safe and maintenance free environment for experiments.

Point

03. Easy operation and Maintenance free

Starting and stopping of the apparatus is done by a switch. The pressure and flow rate are displayed in real time. The large- capacity water tank can hold 4 liters, so that frequent water replenishment is not necessary. The remaining amount of the water is verified through the indicator at a glance. Furthermore, tedious daily maintenance is unnecessary.

Point

02. High purity and Optimum volume

This device includes a purifying function that uses a palladium catalyst to generate high-purity hydrogen gas. Furthermore, its generation of 500 ml/min with 0.4 MPa pressure is excellent for analytical devices, fuel batteries, and chemical reactions. The device can be installed conveniently in any location because of its compact design, which specifically examines only the necessary functions.

Point

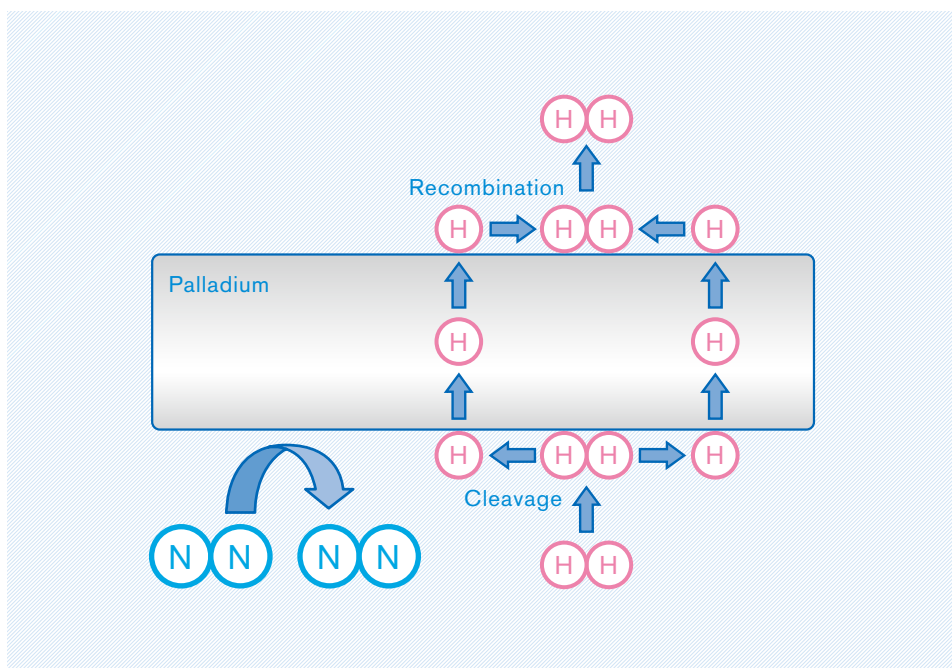
04. Safe design

When the water level sensor senses that the water in the tank is empty, or when the pressure sensor senses that the pressure is about to exceed 0.4 MPa, the device stops automatically. Furthermore, additional sensors can be installed to detect volume decreases and hydrogen leakage.

Features

High-purity hydrogen gas can be produced because of Pd catalyst

The device produces high-purity hydrogen using the characteristics of palladium, which has selective permeability of hydrogen molecules. Because molecules other than hydrogen cannot pass through the palladium catalyst, the impurities can be removed in this process.



The device can be started or stopped with just one switch

It allows hydrogen to be supplied to any apparatus.

High-purity hydrogen can be generated by turning on one switch. A general-purpose stainless screw is used for the hydrogen outlet to connect and add to any apparatus and device.



Example

Best hydrogen source for gas chromatography and chemical reactions

One hydrogen gas generator can supply 2–3 GCs. Because of its light weight and compact size, it can be carried into a draft chamber.





Ordering Information

	Standarded (500mL/min, 0.4MPa)	High Pressure (500mL/min, 0.9MPa)	High flow (1000mL/min, 0.4MPa)
Code	KOH2-500	KOH2-500HP	KOH2-1000
H2 purity	99.999% ※	99.999% ※	99.999% ※
Output vol.	500ml/min	500ml/min	1000ml/min
Output Press.	0~0.4MPa	0~0.9MPa	0~0.4MPa
Operation temp.	1~40°C	1~40°C	1~40°C
Water requ.	< 1.0μS/cm	< 1.0μS/cm	< 1.0μS/cm
Watertank vol.	4L	4L	4L
Supply voltage	AC100V, 50-60Hz, 200W	AC100V, 50-60Hz, 200W	AC100V, 50-60Hz, 750W
Output shape	1/8 inch (SUS)	1/8 inch (SUS)	1/8 inch (SUS)
Dimension	400 (D) × 220 (W) × 360 (H) mm	400 (D) × 220 (W) × 360 (H) mm	480 (D) × 220 (W) × 360 (H) mm
Weight	14kg	14kg	18kg
Indicator	Press., Flow, Power, Water level	Press., Flow, Power, Water level	Press., Flow, Power, Water level

※ It can be highly purified by the filter extension (>99.99999%) .

Option

	Code
Water leak detection sensor	KO-WLDS
Hydrogen leak detection sensor	KO-H2LDS
Overturn detection sensor	KO-OTDS
Safety stop sensor amp unit	KO-SSSAU
Abnormality indicator light	KO-AIL