

Hydrogen Generator

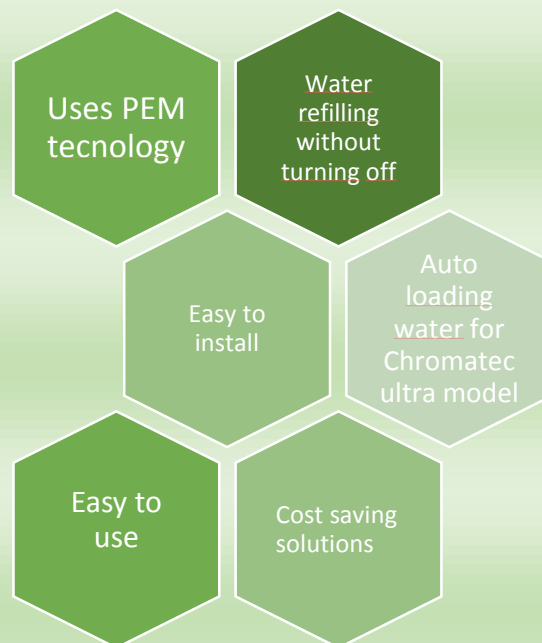


Produces hydrogen from distilled water and electricity. It uses Polymer Electrolyte Membrane (PEM) electrolysis technology due to its safety, ease of use and reliability.

Hydrogen obtained from Chromatec generators can be used to feed flame detectors (FID, FPD, NPD) as well as carrier gas (HP - high purity - models only).

Dimensions: (WxDxH);	230 mm x 580 mm x 440 mm
Weight:	20 kg
Feed Water requirement	Deionized water, 6 MOhm
Output fittings	1/8"
Dimensions and weight of PSA trap unit (for Ultra model only)	175 mm x 300 mm x 350 mm, 10 kg

Advantages



Technical Specifications

Model	Flow Rate		Max Delivery pressure		Purity*	Water consumption**, hours	Power consumption, W
	L/h	ml/min	kPa	psi			
10.600	10	167	600	58	99.995 %	100	140
10.600 HPM	10	167	600	58	99.999 %	100	300
16.600	16	267	600	87	99.995 %	62	300
16.600 HPM	16	267	600	87	99.999 %	62	400
25.600	25	417	600	87	99.995 %	40	300
25.600 HPM	25	417	600	87	99.999 %	40	400
Chromatec Ultra	16	267	405	58	99.9995 %	72***	500

* - refers to total impurities content at dry gas. Water Vapor < 5 PPM (-65 °C Dewpoint)

** - at full filling 0.8L reservoir.

*** - water auto loading available

Environmental Specifications

Ambient Operating Temperature:	from 10 to 35°C
Relative humidity:	not more than 80 %
Storage Temperature:	from -50 °C to 50°C
Power Requirements:	~220V ±10%, 50±1Hz (standard euro plug SCZ-1)
Power consumption:	See table above

Other related products:

Water Purification System

Produces high quality deionized water for hydrogen generators.

Technical Specifications

Feed water, pressure	Potable, 0.1 – 0.8 MPa
Product Water Resistivity at 25 °C	> 10 ¹⁰ MΩ-cm
Productivity by deionized water	10 L/hour
Pressure of product water	1 – 3.5 Bar
Cartridges longevity	
Pre-treatment active carbon cartridge and particle filter	7000 hours
Reverse osmosis membrane	3500 hours
Ion exchange cartridge	700 hours



Advantages

It includes 3 levels of purification:

1. Prefiltration

- Removes suspended particles and organic compounds

2. Reverse Osmosis

- Remove salts in water

3. Ion exchange filter

- By the availability of cationite, anionate and bed filters