Technical Data Sheet

HPGen™ A Series

Benefits / characteristics

- On-site Peroxide UltraPure™ generation
- Chemical-input free - Only water, electricity and air as inputs
- > 99.99 % purity Hydrogen Peroxide, zero additives
- Safe – low output concentration, low DC voltage
- Autonomous – fully automated operation
- Cost effective – saves chemicals, storage, handling
- Sustainable – Peroxide UltraPure™ breaks down to pure water and oxygen

Performance data	HPGen A1000	HPGen A2000	HPGen A3000
Throughput [maximum g net Peroxide UltraPure™/day]	1000	2000	3000
Volume of Peroxide UltraPure™ produced per day [L/day]	400	800	1200
Output Peroxide UltraPure™ concentration [PPM / %]	2500 / 0.25%		
Inputs			
Power consumption [kW]	1.3	1.7	2.6
Power inlet	Single phase 220V/50Hz or 240V/60Hz		
Water consumption[1] [m^3/day]	Municipal-grid drinking water / Reverse osmosis [2]		
	2[1]	4[1]	6[1]
Water connections on back	3/8” quick connect for water feed and ½” quick connect for peroxide output		
Dimensions			
Length x Width x Height [mm]	802 x 623 x 1514		
Weight [kg]	100		
IP rating (cabinet)	IP54		
Operating range			
Feed water pressure [bar]	0 – 4		
Environment	Indoors		
Water temperature [°C]	10 – 28		
Ambient temperature [°C]	3 – 35		
Humidity [RH%]	0 – 70		
Electrodes			
Core Technology	Proprietary HPNow catalyzed membrane technology. Liquid-electrolyte free.		

1. Water consumption depends on input water quality. Water may be reused to decrease consumption. Please consult HPNow.
2. Additional water pre-treatment components may be required if input water quality deviates from recommended values. Please consult with HPNow.

HPGen Operational Overview

Site requirements

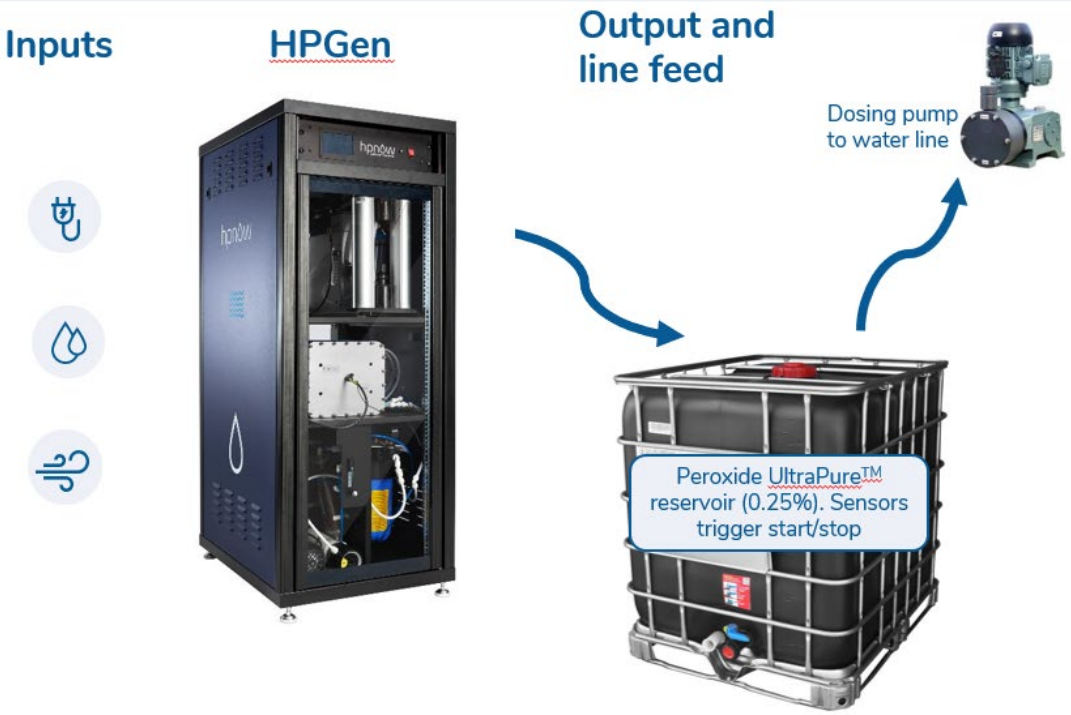
Electric
220V / 50 Hz, 240V / 60 Hz

Water
Municipal drinking water or RO
Water drain available

Air
RH < 70 %
No heavy contaminants (e.g. smoke, oil...)

Environment
Indoors
Level surface

Internet availability
GSM (default) or Ethernet reception



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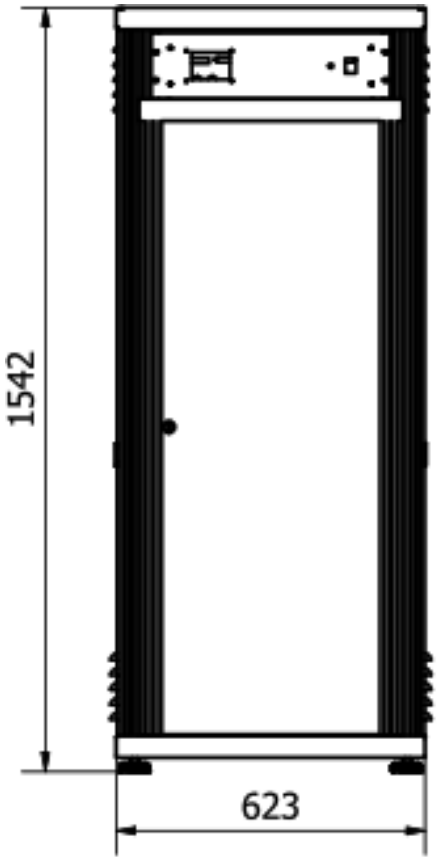

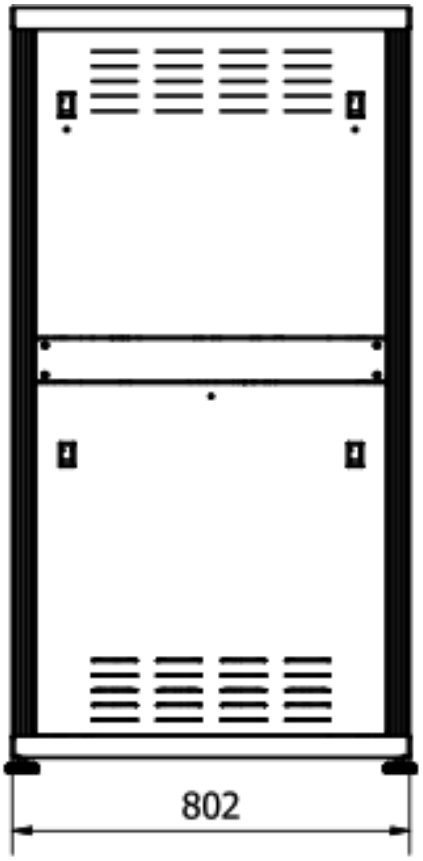

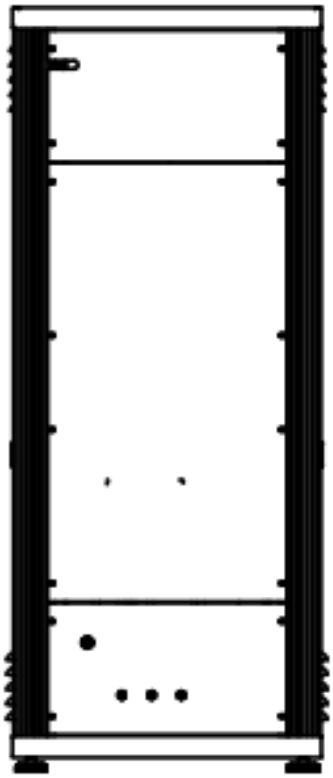

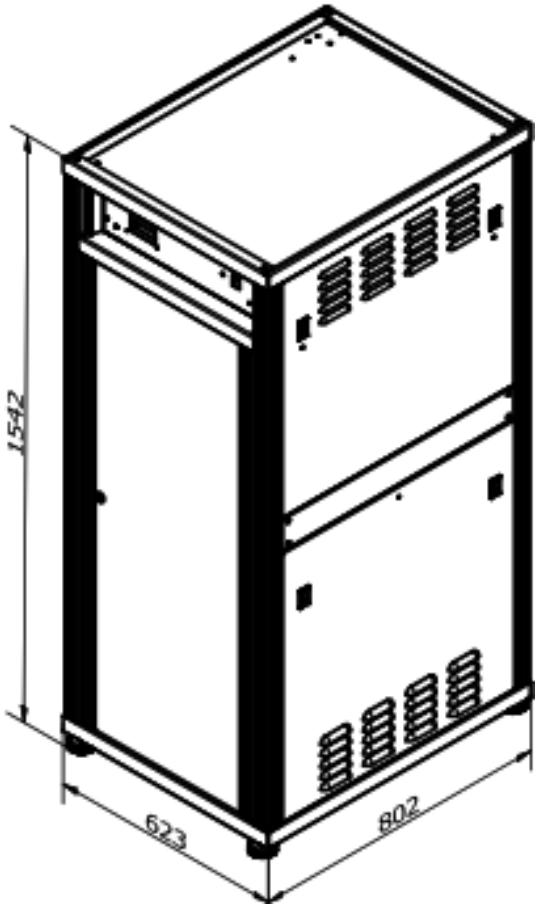

Input Water Specifications	
Parameter	Recommended values (maximum amounts)*
General	
Conductivity [µs/cm]	800
Turbidity [NTU]	1
SDI (15 min) [mg/L]	0.05
Hardness [°dH]	8 (water softener recommended with harder water)
Anions	
Nitrates (NO_3^-) [mg/L]	10
Chloride (Cl^-) [mg/L]	100
Fluoride (F^-) [mg/L]	1
Sulfate (SO_4^{2-}) [mg/L]	80
Bicarbonate (HCO_3^-) [mg/L]	350
Cations	
Calcium (Ca) [mg/L]	80
Sodium (Na) [mg/L]	50
Magnesium (Mg) [mg/L]	25
Iron (Fe), Copper (Cu), Manganese Mn) [mg/L]	1
Others	
Hydrogen sulfide (H_2S) [mg/L]	0.5

FIFRA

HPGen™ is determined by the U.S. EPA as a pesticide device which does not require registration under FIFRA.

HPGen™ is **not** intended for biocidal applications in the EU under the EU Biocidal Products Regulation.

hpnow
purification made simple

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