

Technical Data Sheet HPGenTM A Series



Benefits / characteristics

- $_{\Diamond}$ On-site Peroxide UltraPure $^{\mathsf{TM}}$ generation
- O 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
- $_{\Diamond}$ Cost effective saves chemicals, storage, handling
- Sustainable Peroxide UltraPure™ breaks down to pure water and oxygen

Throughput [maximum g net Peroxide UltraPure™/day] 1000 2000 3000 3000 12	Performance data	HPGen A1000	HPGen A2000	HPGen A3000
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% 2500 / 0.25% Inputs Power consumption [kW] 1.3 1.7 2.6 Power inlet Single phase 220V/50Hz or 240V/60Hz Water consumption¹ [m³/day] Municipal-grid drinking water / Reverse osmosis ² Water consumption¹ [m³/day] 3/8" quick connect for water feed and ½" quick connect for peroxide out Dimensions Bength x Width x Height [mm] 802 x 623 x 1514 Weight [kg] 100 IP54 Operating range Feed water pressure [bar] 0 - 4 Environment Indoors Water temperature [°C] 3 - 35 Ambient temperature [°C] 3 - 35 Humidity [RH%] 0 - 70		TH Gen A1000	TII Gell'A2000	TH Gen A3000
produced per day [L/day] Output Peroxide UltraPure™ concentration (PPM / %) Inputs Power consumption [kW] Nater consumption¹ [m³/day] Water connections on back Dimensions Length x Width x Height [mm] Prating (cabinet) Operating range Feed water pressure [bar] Environment Water temperature [°C] Ambient temperature [°C] Ambient temperature [°C] Length y (%) August 2500 / 0.25% 2500 / 0.25% 2500 / 0.25% 2500 / 0.25% August 2500	UltraPure™/day]	1000	2000	3000
concentration [PPM / %] Inputs Power consumption [kW] 1.3 1.7 2.6 Power inlet Single phase 220V/50Hz or 240V/60Hz Water consumption¹ [m³/day] Municipal-grid drinking water / Reverse osmosis ² Water connections on back 3/8" quick connect for water feed and ½" quick connect for peroxide out 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		400	800	1200
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Power inlet Single phase 220V/50Hz or 240V/60Hz Water consumption¹ [m³/day] 2¹ 4¹ 6¹ Water connections on back 3/8" quick connect for water feed and ½" quick connect for peroxide out Dimensions Length x Width x Height [mm] 802 x 623 x 1514 Weight [kg] 100 IP rating (cabinet) Operating range Feed water pressure [bar] Environment Indoors Water temperature [°C] Ambient temperature [°C] Humidity [RH%] Single phase 220V/50Hz or 240V/60Hz Authorized or 240V/60Hz But 1 6¹ 802 x 623 x 1514 Veight [kg] 100 IP54 Operating range Feed water pressure [bar] 0 - 4 Environment Indoors Water temperature [°C] 3 - 35 Humidity [RH%] D - 70	Inputs			
Water consumption¹ [m³/day] Municipal-grid drinking water / Reverse osmosis ² 2¹ 4¹ 6¹ Water connections on back 3/8" quick connect for water feed and ½" quick connect for peroxide out Dimensions 802 × 623 × 1514 Length x Width x Height [mm] 802 × 623 × 1514 Weight [kg] 100 IP rating (cabinet) 100 Pread water pressure [bar] 0 - 4 Environment Indoors Water temperature [°C] 10 - 28 Ambient temperature [°C] 3 - 35 Humidity [RH%] 0 - 70 Electrodes	Power consumption [kW]	1.3	1.7	2.6
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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		21	41	6 ¹
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IP rating (cabinet) Operating range Feed water pressure [bar] Environment Indoors Water temperature [°C] Ambient temperature [°C] Humidity [RH%] Electrodes	Length x Width x Height [mm]	802 x 623 x 1514		
Operating rangeFeed water pressure [bar]0 – 4EnvironmentIndoorsWater temperature [°C]10 – 28Ambient temperature [°C]3 – 35Humidity [RH%]0 – 70Electrodes	Weight [kg]	100		
Feed water pressure [bar] 0 - 4 Environment Indoors Water temperature [°C] 10 - 28 Ambient temperature [°C] 3 - 35 Humidity [RH%] 0 - 70 Electrodes	IP rating (cabinet)	IP54		
Environment Indoors Water temperature [°C] 10 – 28 Ambient temperature [°C] 3 – 35 Humidity [RH%] 0 – 70 Electrodes	Operating range			
Water temperature [°C] 10 – 28 Ambient temperature [°C] 3 – 35 Humidity [RH%] 0 – 70 Electrodes	Feed water pressure [bar]	0 – 4		
Ambient temperature [°C] 3 – 35 Humidity [RH%] 0 – 70 Electrodes	Environment	Indoors		
Humidity [RH%] 0 – 70 Electrodes	Water temperature [°C]	10 – 28		
Electrodes	Ambient temperature [°C]	3 – 35		
	Humidity [RH%]	0 – 70		
	Electrodes			
Core Technology Proprietary HPNow catalyzed membrane technology. Liquid-electrolyte	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.



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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 (<u>e.g.</u> smoke, oil...)

Environment

Indoors Level surface

Internet availability

GSM (default) or Ethernet reception

Inputs







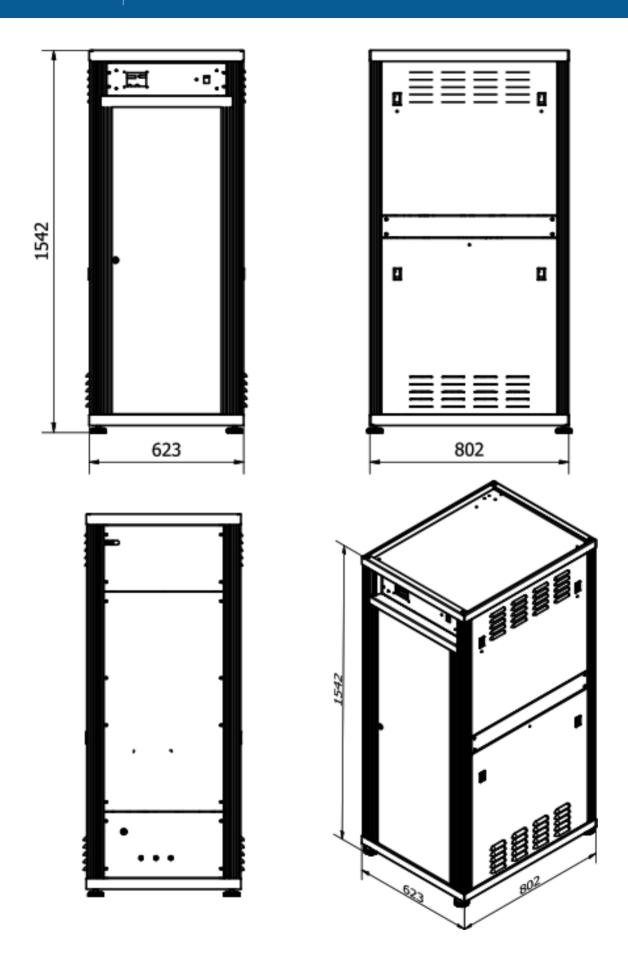
HPGen



Output and line feed









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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 ₂ S) [mg/L]	0.5			



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.



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