

# HGA ST PRO

## PEM Hydrogen generator with ZeroAir integrated

The HydroGen series **HGA ST PRO** is able to generate up to 600 cc/min of Hydrogen with purity better than 99.99999% and pressure up to 16 bar (232 psi). An AirGen output can deliver hydrocarbon free pure Air with a flow up to 2000 cc/min.

The **HGA ST PRO** includes an electrolytic cell with polymeric membrane (PEM) using distilled water. The two-column PSA drying system with automatic regeneration ensures the maximum grade of hydrogen purity, and is completely maintenance-free.

The **HGA ST PRO** is the ideal Hydrogen and Air Generator for all GC-FID detectors. The on-board CPU constantly controls the operating parameters to guarantee full safety. The touch-screen LCD interface provides simple and user-friendly management of all functions on the unit.

### Main Applications

- Carrier gas for GC and GC-MS
- GC-FID / GC-NPD / GC-FPD
- THA

### Main Advantages

- ✓ Quick installation
- ✓ Easy use
- ✓ Hydrogen flow rate up to 600 cc/min
- ✓ ZeroAir flow rate up to 2000 cc/min
- ✓ Pressure up to 16 bar (232 psi)
- ✓ Hydrogen purity: 99.99999%
- ✓ THC: < 0.1 ppm
- ✓ RS 485 and USB as standard
- ✓ LAN optional
- ✓ Dryer with no maintenance
- ✓ Reduced foot print
- ✓ High pressure GLS electronically controlled (patented)



## Specifications



Models: HGA ST PRO	100	160	250	350	600
<b>General data</b>					
Electrolytic cell	PEM technology				
Drying system	PSA (Pressure Swing Adsorption)				
H2 purity	>99.99999% *1				
Outlet pressure	12 bars (174 psi) / 16 bars (232 psi) (optional)				
H2 flow-rate cc/min (Max)	100	160	250	350	600
Dimensions (WxDxH)	9.5 x 48 x 44 cm				
Net weight (no water in tank)	22 kg				
<b>Communication</b>					
RS485/USB	Standard				
LAN	Optional				
<b>Software functions</b>					
Parallel mode	Ready on board				
Automatic tank refill	Standard				
<b>Water</b>					
Quality	Deionized, ASTM II, <0.1uS				
Supply pressure (min, Max)	0 bars (0 psi), 0.5 bar (7.25 psi)				
Internal tank capacity	0.3 l				
<b>Electrical data</b>					
Type of connection	IEC 320-C14				
Power supply voltage	100-240 Vac (±10%) 50/60Hz				
Nominal power (Max)	350W				500W
Fuse rating (5x 20 mm)	4A (250VAC – T)				
<b>Connections</b>					
Hydrogen outlet	1/8" compression fitting				
Water (inlet, drain)	Quick release push-in fitting				
<b>ZeroAir section</b>					
Inlet pressure (Max)	8 bars (116 psi)				
Max THC (Inlet Air)	100ppm				
Outlet flow rate (Max)	2000 cc/min				
Outlet pressure (Max)	Inlet pressure – 0.5 bars (8 psi) at maximum flow				
THC (ZeroAir Outlet)	<0.1ppm				
Inlet ports	1/8" BSPP female				
Outlet ports	1/8" BSPP female				

\*1 Referred to O<sub>2</sub> - DewPoint < -75°C (< -103°F), Atmospheric Dew point (ADP)

### Ordering codes

#### Gas Generators

6920.08.010	HGA ST PRO 100
6920.08.016	HGA ST PRO 160
6920.08.025	HGA ST PRO 250
6920.08.035	HGA ST PRO 350
6920.08.060	HGA ST PRO 600

#### Consumable

6930.00.091	Deionizer water filter
6930.00.017	Filter elements for ZA RACK series / HGA 2U series / HGA ST series



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