

**HG RACK 2U
PRO (SX 3080)**

PEM Rack 19 inch Hydrogen generator with ZeroAir integrated



HydroGEN

The HydroGen series **HG RACK 19** inch **2U PRO** is able to generate up to 350 cc/min Hydrogen with purity better than 99.99999% and pressure up to 16 bar (232 PSI). An optional AirGen output can deliver hydrocarbon free pure Air with a flow up to 2000 cc/min.

The HG RACK 19 inch 2U 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 **HG RACK 19** inch **2U PRO** is the ideal Hydrogen and Air Generator for all GC-FID detectors. The on-board CPU constantly control 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
- Gas sensing

Main Advantages

- Quick installation
- Easy use
- Hydrogen flow rate up to 350 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: 19 inch rack 2U
- High pressure GLS electronically controlled (patented)

Specifications

| HG 2U PRO | 100 | 160 | 250 | 350 |
|---------------------------------------|--|-----|-----|-----|
| General data | | | | |
| Electrolytic cell | PEM technology | | | |
| Drying system | PSA (Pressure Swing Adsorption) | | | |
| H ₂ purity | >99.99999% ¹ | | | |
| Outlet pressure | 12 bars (174 psi) / 16 bars (232 psi) (optional) | | | |
| H ₂ flow-rate cc/min (Max) | 100 | 160 | 250 | 350 |
| Dimensions | Standard 19 inch 2U RACK (48 cm deep) | | | |
| Net weight (no water in tank) | 15.5 kg | | | |
| Communication | | | | |
| RS485/USB | Standard | | | |
| LAN | Optional | | | |
| Software functions | | | | |
| Parallel mode | Ready on board | | | |
| Automatic tank refill | Standard | | | |
| Water | | | | |
| Quality | Deionized, ASTM II, <0.1uS | | | |
| Supply pressure (Min, Max) | 0.1 bars (1.4 psi), 0.5 bar (7.25 psi) | | | |
| Internal tank capacity | 0.3 l | | | |
| Electrical data | | | | |
| Type of connection | IEC 320-C13 | | | |
| Power supply voltage | 100-240 Vac 50/60 Hz | | | |
| Installed power (Max) | 350 W | | | |
| Fuse rating (5 x 20 mm) | 4 A 250 VAC | | | |
| Connections | | | | |
| Hydrogen outlet | 1/8" compression fitting | | | |
| Water (inlet, drain) | Quick release push-in fitting | | | |
| ZeroAir section (optional) | | | | |
| Inlet pressure (Max) | 8 bars (116 psi) | | | |
| THC (Inlet Air) | 100ppm | | | |
| Outlet flow rate (Max) | 2000 cc/min | | | |
| Outlet pressure (Max) | 0.5 bars (8 psi) at maximum flow | | | |
| THC (ZeroAir Outlet) | <0.1ppm | | | |
| Inlet, Outlet ports | 1/8" BSPP female | | | |

¹ Referred to O₂ - DewPoint < -75°C

| Gas Generators | |
|--------------------------------|-------------------------|
| 6920.16.010 | HG 2U PRO 100 |
| 6920.16.016 | HG 2U PRO 160 |
| 6920.16.025 | HG 2U PRO 250 |
| 6920.16.030 | HG 2U PRO 300 |
| Accessories (optionals) | |
| 6930.00.120 | ZA 2U (Catalyst) |
| Consumable | |
| 6930.00.050 | De-ionisation Cartridge |

Ordering codes

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