



# HIGH PERFORMANCE GAS GENERATORS



## Description

Our lines of gas generators have been designed to fit most applications in the field of automotive industry, air quality monitoring and laboratory.

Each instrument is equipped with high performance communication interfaces (RS485, Ethernet and WLAN (Options)) allowing to realise very flexible gas networks with either local or central control.

The control software handles all safety functions, the automatic pressure regulation, functioning status and ensures reliable communications.

All gas generators modules are easy to install, reliable, safe and pleasant to operate.

Technologies involved:

- Proton Exchange Membrane (PEM)
- Pressure Swing Absorption (PSA)
- Catalysis

## Benefits

- Reduces operating costs.  
Return on investment in less than 2 years.
- Improves resolution and detection limit of your instrument. Provides high pressure stability.
- Provides H<sub>2</sub>, N<sub>2</sub> and Air 24/7 at constant purity. No contamination.
- No more handling and storage of gas cylinders. No more rental fees.
- Can be stacked for low footprint gas generator network assembly (laboratory).
- Can be controlled remotely by either a PC, iPad, iPhone or iPod touch.
- Internal maintenance free.

### H<sub>2</sub>:

- Very safe operation, internal leak-test, automatic shut-down, over-pressure valve, current and voltage limits.
- Extended autonomy with 5L water tank.

### Air and N<sub>2</sub>:

- Very safe operation, internal leak-test, automatic shut-down, protection against over-temperature.

MODEL/NAME	FUNCTION	APPLICATION	CHARACTERISTICS			COMPR. AIR SOURCE
			PURITY	CAPACITY	PRESSURE	
<b>HYDRO45-R</b>	High Purity Hydrogen Generator	Automotive, Air Quality Monitoring, OEM	< 10 ppm HC	100, 160, 250, 300, 500 and 600 ml/min	7 bar max (100 psi max)	
<b>HYDRO45-RS</b>	High Purity Hydrogen Generator	Automotive, Air Quality Monitoring, OEM	< 10 ppm HC	1000 and 1200 ml/min	7 bar max (100 psi max)	
<b>HYDRO60-R</b>	Ultra High Purity Hydrogen Generator	Automotive, Air Quality Monitoring, OEM	< 1 ppm HC	100, 160, 250, 300, 500 and 600 ml/min	7 bar max (100 psi max)	
<b>HYDRELIO40/60-R</b>	40%H <sub>2</sub> + 60%He Generator	Automotive, OEM	< 10 ppm HC	250, 500 and 750 ml/min	6 bar max (85 psi max)	

<b>HYDRO45-L</b>	High Purity Hydrogen Generator	Laboratory	< 10 ppm HC	100, 160, 250, 300, 500 and 600 ml/min	7 bar max (100 psi max)	
<b>HYDRO45-LS</b>	High Purity Hydrogen Generator	Laboratory	< 10 ppm HC	1.2, 2.4, 3.6 and 4.8 l/min	7 bar max (100 psi max)	
<b>HYDRO60-L</b>	Ultra High Purity Hydrogen Generator	Laboratory	< 1 ppm HC	100, 160, 250, 300, 500 and 600 ml/min	7 bar max (100 psi max)	
<b>HYDRO60-LS</b>	Ultra High Purity Hydrogen Generator	Laboratory	< 1 ppm HC	1.2, 2.4, 3.6 and 4.8 l/min	7 bar max (100 psi max)	

<b>AERO40-R</b>	Zero Air Generator	Automotive, Air Quality Monitoring, OEM	< 0.1 ppm HC < 0.1 ppm CO	1.5, 3, 6, 10 and 20 l/min	8 bar max (110 psi max)	External
<b>AERO50-R</b>	Ultra Zero Air Generator	Automotive, Air Quality Monitoring, OEM	< 100 ppm H <sub>2</sub> O < 5 ppm CO <sub>2</sub> < 0.1 ppm HC < 0.1 ppm CO	1.5, 3 and 6 l/min	7 bar max (100 psi max)	External

<b>AERO30-L</b>	Dry Air Generator	Laboratory	< 150 ppm H <sub>2</sub> O	1.5, 3 and 6 l/min	7 bar max (100 psi max)	External
<b>AERO40-L</b>	Zero Air Generator	Laboratory	< 0.1 ppm HC < 0.1 ppm CO	1.5, 3, 6, 10 and 20 l/min	8 bar max (110 psi max)	External
<b>AERO50-L</b>	Ultra Zero Air Generator	Laboratory	< 100 ppm H <sub>2</sub> O < 5 ppm CO <sub>2</sub> < 0.1 ppm HC < 0.1 ppm CO	1.5, 3 and 6 l/min	7 bar max (100 psi max)	External
<b>AERO40-LS</b>	Zero Air Generator	Laboratory	< 0.1 ppm HC < 0.1 ppm CO	40, 80 and 120 l/min	8 bar max (110 psi max)	External

<b>NITRO30-R</b>	Nitrogen Generator	Automotive, Air Quality Monitoring, OEM	> 99.95%	1000, 2000 and 4000 ml/min	5 bar max (70 psi max)	External
<b>NITRO40-R</b>	High Purity Nitrogen Generator	Automotive, Air Quality Monitoring, OEM	> 99.9995%	500 and 1000 ml/min	5 bar max (70 psi max)	External
<b>NITRO50-R</b>	Ultra High Purity Nitrogen Generator	Automotive, Air Quality Monitoring, OEM	> 99.9995% < 0.1 ppm HC	500 and 1000 ml/min	5 bar max (70 psi max)	External

<b>NITRO30-L</b>	Nitrogen Generator	Laboratory	> 99.95%	1000, 2000 and 4000 ml/min	5 bar max (70 psi max)	External
<b>NITRO40-L</b>	High Purity Nitrogen Generator	Laboratory	> 99.9995%	500 and 1000 ml/min	5 bar max (70 psi max)	External
<b>NITRO50-L</b>	Ultra High Purity Nitrogen Generator	Laboratory	> 99.9995% < 0.1 ppm HC	500 and 1000 ml/min	5 bar max (70 psi max)	External

