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**PRODUCT CATALOGUE**

**GENERATORS**

# GENERATORS



Leman Instruments



## HYDRO65R

- Ultra-high purity Hydrogen generator for: combustion and carrier gas for gas chromatographs and FID.
- Suitable for almost any type of application requiring H<sub>2</sub> production.
- 15 month return on investment.
- Low functioning noise < 45dB(A).
- The Hydrogen produced is available 24/7 with constant purity of >99.99995%.
- The H<sub>2</sub> output pressure is regulated electronically and can be set from 0.5 to 7 bar.
- Models with outflows of 100, 160, 250, 500 & 600 Nml/min H<sub>2</sub> available.
- High performance communication interfaces USB and RS485 (Ethernet optional).
- 5L internal water tank.

## HYDRO65L

- Ultra-high purity Hydrogen generator for: combustion gas for FID analysers; carrier gas for GC and GC/MS; reaction gas for ICP-MS; protection gas.
- Suitable almost any type of application requiring H<sub>2</sub> production in a laboratory environment.
- 2 year return on investment.
- The Hydrogen produced is available 24/7 with constant purity of 99.99995% at output flows of 100 to 600 Ncc/min (depending on the model).
- The H<sub>2</sub> output pressure is regulated electronically and can be set from 0.5 to 7 bar (7 to 102 psig).
- 5L internal water tank.

## HYDROGEN GENERATORS

- Portable generators to meet a wide range of applications and laboratory environments without piping or gas cylinders.
- Maintenance free generators with low operating costs and a rapid return on investment.
- Low footprint with stackable casing.
- On demand process start without the use of caustic solution.
- 99.99995% H<sub>2</sub> from 100ml/min to 20L/min with adjustable pressure from 0.5 to 8 bar (depending on the model).
- Ultra-pure, contamination free Hydrogen, produced at low pressure from electricity and high quality distilled water.
- After production, H<sub>2</sub> is dried first by a passive dryer and then purified and dried by passing through a maintenance free PSA module.
- High resolution and detection limit with high pressure stability.
- Touchpad and colour display.
- High performance communication interfaces (RS485, Ethernet, WLAN options depending on the model) to create a flexible gas network with local or central control.
- Remote control from PC, phone and tablet.
- Software focused on guaranteeing safety, and providing automatic regulation, ease of installation and reliable communications.
- Enhanced safety with internal leak-test, automatic shut-down, over-pressure valve, H<sub>2</sub>-cell current and voltage limits.

## HYDRO65LS

- High flow, ultra-high purity Hydrogen generator for: combustion and carrier gas for gas chromatographs; combustion gas for FID; fuel cell research; protection gas.
- Suitable for almost any type of application requiring H<sub>2</sub> production.
- 1.5 year return on investment.
- Composed of one or two independent modules, connected in parallel and controlled by an RS485 internal bus (cogeneration).
- Easy supervision and diagnosis by module.
- The Hydrogen produced is available 24/7 with constant purity of >99.99995%.
- The H<sub>2</sub> output pressure is regulated electronically and can be set from 0.5 to 7 bar.
- Models with outflows of 1 to 4 L/min H<sub>2</sub> available.
- High performance communication interfaces USB, RS485 and Ethernet. Optional connection to internet.

## HYDRO65LS2

- High flow, ultra-high purity Hydrogen generator for: carrier gas for gas chromatographs; fuel cell research; protection gas.
- Suitable almost any type of application requiring H<sub>2</sub> production.
- 1.5 year return on investment.
- Modular composition (1 L/min each) allows individual modules to be removed without interrupting production of other modules.
- Easy supervision and diagnosis by module.
- The Hydrogen produced is available 24/7 with constant purity of >99.99995%.
- The H<sub>2</sub> output pressure is regulated electronically and can be set from 0.5 to 8 bar.
- Models with outflows of 5, 10, 15 L/min H<sub>2</sub> available.
- High performance communication interfaces USB and RS485 (Ethernet, WLAN optional).
- 20L internal water tanks or optional connection to water distribution network.

## NITRO20ELSD NITROGEN GENERATOR

- Portable Nitrogen generator to meet a range of applications and laboratory environments.
- Suitable for ELSD detectors requiring a high flow of dry and pure Nitrogen (> 99%) in a laboratory environment as well as: nebulising, sheath and drying gas for LC/MS; turbo vaporisers; Life Sciences research; cell culture; protection gas.
- Maintenance free and cylinder free with low operating costs and an 18 month return on investment.
- Low functioning noise.
- Based on the field proven Pressure Swing Adsorption (PSA) technology.
- The Nitrogen produced is available 24/7, contamination free and with constant purity.
- Dry, clean compressed air from on-board compressor or external source (depending on model) is filtered from particulates down to 5µm.
- Nitrogen is extracted from high efficiency CMS filters.
- Post extraction Nitrogen is filtered of remaining particulates down to 0.1 µm.
- Pressure is regulated electronically to the set value between 0.5 and 5 bar. (7 to 70 psig).
- Outflow of 10 L/min N<sub>2</sub>.
- High performance communication interfaces (RS485, USB and Ethernet) deliver a highly flexible gas network with local or central control.
- Remote control from PC, phone and tablet.
- Software focused on guaranteeing safety, and providing automatic regulation, ease of installation and reliable communications.
- Enhanced safety with internal leak-test and automatic shut-down.



## OXYSTATION 20LC OXYGEN GENERATOR

- Portable, high purity Oxygen generator to meet a range of applications and laboratory environments.
- Suitable for any application involving Oxygen.
- Maintenance free and cylinder free with low operating costs and an 18 month return on investment.
- Low functioning noise.
- The Oxygen produced is available 24/7, contamination free and with constant purity.
- High pressure stability.
- Excellent measurement reproducibility.
- Remote control from PC, phone and tablet.
- High performance communication interfaces (USB, RS485, Ethernet and WLAN) create a flexible gas network with local or central control.
- Software focused on guaranteeing safety, and providing automatic regulation, ease of installation and reliable communications.



## AEROSTATION 50 TOC LC ZERO AIR GENERATOR



- Portable Zero Air generator with compressor to meet a range of applications and laboratory environments requiring an on-demand, independent supply of ultra-high purity, silicon free air.
- Suitable for: burning gas, zero gas and carrier gas for THC, TOC, BTX analysers; purge gas for FTIR.
- Maintenance free and cylinder free with low operating costs and a 15 month return on investment.
- Long life compressor with power economy function.
- Low functioning noise <58dB(A).
- High resolution and detection limit with high pressure stability.
- The silicon free AIR / UHP-AIR produced is available 24/7, contamination free and with constant purity.
- Compressed air from the internal, silicon and oil free compressor is passed through a hot catalytic chamber to filter from CO, CH<sub>4</sub> and HC.
- Based on the field proven Pressure Swing Adsorption (PSA) technology, all CO<sub>2</sub> and moisture are removed.
- Post purification, UHP Air is filtered of remaining particulates down to 0.1 µm.
- Pressure is regulated electronically to the set value, between 0.5 and 5bar.
- Models with outflows of 1.5, 2.0 and 3.0 L/min AIR available.
- Remote control from PC, phone and tablet.
- High performance communication interfaces (USB, RS485, Ethernet and WLAN) create a flexible gas network with local or central control.
- Software focused on guaranteeing safety, and providing automatic regulation, ease of installation and reliable communications.

## FIDSTATION ULTRA LC MULTI GAS GENERATOR



- Portable generator with compressor to supply combustion gases for FID.
- FID Station composed of a high purity Hydrogen generator along with a Zero Air generator.
- Maintenance free and cylinder free with low operating costs and a 15 month return on investment.
- High resolution and detection limit with high pressure stability.
- Based on the field proven Solid Polymer Electrolyte (PEM) cell technology.
- On demand process start without the use of caustic solution.
- Hydrogen and Zero Air produced is available 24/7, contamination free and with constant purity >99.9999%.
- Output pressure is regulated electronically and can be set from 0.5 to 5 bar.
- Using Pressure Swing Adsorption (PSA) technology, compressed air is dried and filtered from pollutant gases.
- High performance communication interfaces (USB, RS485, Ethernet) create a flexible gas network with local or central control.
- Software focused on guaranteeing safety, and providing automatic regulation, ease of installation and reliable communications.
- Enhanced safety with internal leak-test, automatic shut-down, over pressure valve, current and voltage limits.
- 5L internal water tank.



**LabService  
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