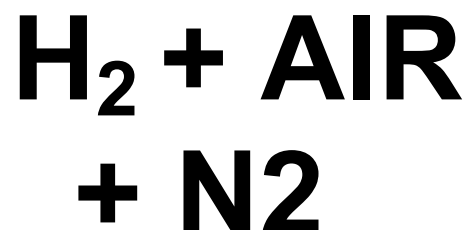


## GC STATION 60LC : ULTRA HIGH PURITY HYDROGEN & ZERO AIR & NITROGEN GENERATORS WITH ON BOARD COMPRESSOR



### APPLICATION

- ✓ Combustion, carrier and make up gases for GC

### DESCRIPTION

PEUS-Instruments designed the **GCSTATION 60LC** product line of **Ultra High Purity Hydrogen & Zero Air generators & Nitrogen with compressor** to supply independently all gases necessary to aliment GC, close to the consumer in an elegant casing with full color display and touchpad. .

The GCStation is composed of an Ultra High purity Hydrogen generator, an Ultra Zero Air generator With Nitrogen and an AIR compressor:

Based on the field proven Solid Polymer Electrolyte (PEM) cell technology, pure Hydrogen is produced at low pressure from electricity and high quality distilled water. After production, H2 is dried first by a passive dryer and then purified by passing through a No Maintenance PSA module. It is available 24/7 with constant purity >99.9999%. Output pressure is regulated electronically and could be set from 0.5 to 8 bar. This process can be started on demand and does not require any caustic solution.

Compressed AIR is first dried and passes throughout a hot catalytic chamber to remove HC, CO and CH4; then ZERO AIR passes through a Pressure Swing Adsorption (PSA) module to dry and filter it from pollutant gases. Based on the same concept, Nitrogen is then extracted from a set of filters filled up with CMS. Both Output pressures are regulated electronically from 0.5 to 5 bar.

Due to the software being focused on safety, automatic regulation and reliable communications, the **GCSTATION 60LC** is easy to install, reliable, safe and pleasant to operate.

### BENEFITS

- ✓ Reduces in operation costs. Return on investment within 12 months.
- ✓ Improves resolution and detection limit versus Helium only usage. Provides High pressure stability.
- ✓ H2, Zero Air and N2 available 24/7 at constant purity. No contamination.
- ✓ Independent source of Hydrogen, Zero Air and Nitrogen, does not require any piping and can be easily moved around the laboratory. Remote control from PC
- ✓ Low noise compressor < 50dB(A)).
- ✓ Very safe operation, internal leak-test, automatic shut-down, over-pressure valve, current and voltage limits.
- ✓ No handling and storage of cumbersome gas cylinders. No cylinder rental fee.
- ✓ Extended autonomy with 5L water tank.
- ✓ Long life compressor with power economy function.





# GC STATION 60LC

## SPECIFICATIONS

<b>Models</b>	<b>GCSTATION60LC-100/1000/100 ; GCSTATION60LC-160/1500/160 GCSTATION60LC-250/3000/250</b>
Outflow capacities @ 1013/20°C	GCSTATION60LC-100/1000/100 : 100 Nml/ min H2 & 1000 Nml/min AIR & 100 Nml/min N2 GCSTATION60LC-160/1500/160 : 160 Nml/ min H2 & 1500 Nml/min AIR & 160 Nml/min N2 GCSTATION60LC-250/3000/250 : 250 Nml/ min H2 & 3000 Nml/min AIR & 250 Nml/min N2
H2 purity	>99.9999% (maximum HC content: 0.02ppm ) ; dew point <-70°C
AIR purity	< 0.03 ppm HCnm ; < 0.03 ppm CO and CH4; dew point < -40°C
N2 purity	>99.9995%, < 5ppm O2: HC<0.005ppm, dew point < -50°C
Outlet Pressures	H2 : from 0.5 to 7 bar (7 to 100 psig), adjustable by software. AIR& N2: from 0.5 to 5 bar (7 to 70 psig), adjustable by software.
Water quality	High purity distilled+filtered water. TOC free.
Water capacity	5L external tank. Generates about 6000L Hydrogen
Compressed Air	Supplied by internal compressor
Safety	Low H2 stored volume; over pressure valve; internal leak test; automatic shut down; maximum current limit, water quality, over temperature.
Sound pressure	< 50 dB(A), measured at 1m
Manual control	Through a 4.3" TFT-LCD color display with touchpad, located on the front panel. Display of major parameters, functioning status and alarms. Intuitive navigation to functions by menus and sub menus.
Remote control, Communications	<ul style="list-style-type: none"> <li>■ By 2 potential free relay contacts (I/O)</li> <li>■ By USB, as standard</li> <li>■ By Ethernet 10/100 network (option)</li> <li>■ Log book download by USB.</li> </ul>
Outlet fittings	Stainless steel 1/8" OD compression
Power supply	Automatic switching from 90VAC to 260VAC, 47 to 63 Hz
Power consumption ( max at full flow)	GCSTATION60LC-100/1000/100 : maximum 600W GCSTATION60LC-160/1500/160 : maximum 700W GCSTATION60LC-250/3000/250 : maximum 850W
Dimensions	W=220mm, H=540mm, D=500mm with castors
Net weight	GCSTATION60LC-xx/xx/xx : 35 Kg
Certification	CE

## ORDERING NUMBERS

Model	Article #
GCSTATION60LC-100/1000/100	743201
GCSTATION60LC-160/1500/160	743203
GCSTATION60LC-250/3000/250	743205

Model	Article #
LAN Interface option	743282
ZERO WATER 12x5L refill	711092

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