



Leman Instruments

PID STATION 50LC : ULTRA HIGH PURITY NITROGEN & ZERO AIR GENERATORS WITH ON BOARD COMPRESSOR



N₂ + AIR

APPLICATIONS

- ✓ Make up gas, GC-FID
- ✓ Carrier gas for GC

DESCRIPTION

LEMAN-INSTRUMENTS designed the **PID STATION 50LC** product line of **Ultra High Purity Nitrogen & Zero Air generators with compressor** to supply independently N₂ & AIR for GC-FID, carrier gas for GC, close to the consumer in an elegant casing with full color display and touchscreen.

The PID Station is composed of an Ultra High Purity Nitrogen generator, an Ultra Zero Air generator and an oil free piston AIR compressor.

Compressed Air is first partially dried and then passes throughout an hot catalytic chamber to remove HC, CO and CH₄.

Each gas, N₂ and AIR, is dried and purified or extracted by the Pressure Swing Adsorption (PSA) technology. N₂ & AIR output pressures are regulated from 0.5 to 5.5 bar.

Gases are available 24/7 with constant purity >N₂ : 99.9995%; AIR and N₂: dew point <-50°C; CO, CH₄, HC< 0.05ppm.

Each instrument is equipped with high performance communication interfaces USB, RS485 as standard, (Ethernet, WLAN as options) to create a very flexible gas network with local or central control.

Due to the software being focused on safety, automatic regulation and reliable communications, the **PID STATION 50LC** is easy to install, reliable, safe and pleasant to operate.

BENEFITS

- ✓ Reduces in operation costs. Return on investment within 15 months.
- ✓ Improves resolution and detection limit versus Helium only usage. Provides High pressure stability.
- ✓ N₂ and Zero Air available 24/7 at constant purity. No contamination.
- ✓ Independent source of Nitrogen and Zero Air that does not require any piping and can be easily moved around the laboratory. Remote control from PC, I-phone and tablet
- ✓ Low noise compressor < 55dB(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.
- ✓ Long life compressor with power economy function.

PID STATION 50LC

SPECIFICATIONS

Models	PIDSTATION50LC-1000/1500 ; PIDSTATION50LC-2000/3000
Outflow capacities @ 1013/20°C	PIDSTATION50LC-1000/1500 : 1000 Nml/ min N2 & 1500 Nml/min AIR PIDSTATION50LC-2000/3000 : 2000 Nml/ min N2 & 3000 Nml/min AIR
N2 purity	>99.9995% ; < 0.05 ppm HCnm ; < 0.05 ppm CO and CH4
AIR purity	< 0.05 ppm HCnm ; < 0.05 ppm CO and CH4
Dew point N2 and Air	< -50°C
Outlet Pressures	N2 : from 0.5 to 5.5 bar (7 to 80 psig), adjustable by software. AIR: from 0.5 to 5.5 bar (7 to 80 psig), adjustable by software.
Compressed Air	Supplied by internal oil free piston compressor
Sound pressure	< 55 dB(A), measured at 1m
Manual control	Through a 4.3" TFT-LCD color display with touch screen, 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">■ USB. RS485 (Mod-Bus) or Display..■ Trough Ethernet 10/100 network (option)■ Trough WLAN network, with PC, I-Phone, tablet (option)■ Log book download by USB.
Outlet fittings	Stainless steel 1/8" OD compression
Power supply	110VAC to 130 VAC 50 to 60 Hz; 220 to 260VAC, 47 to 63 Hz
Power consumption (max at full flow)	PIDSTATION50LC-1000/1500 : maximum 650W PIDSTATION50LC-2000/3000 : maximum 800W
Dimensions	W=230mm, H=600mm, D=550mm with castors
Net weight	PIDSTATION50LC-1000/2000 : 27 Kg PIDSTATION50LC-2000/3000: 31 Kg
Certification	CE

ORDERING NUMBERS

Model	Article #
PIDSTATION50LC-1000/1500	747202
PIDSTATION50LC-2000/3000	747204

Model	Article #
WLAN Interface option	747281
LAN Interface option	747282

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