

FID Station-plus Hydrogen + Zero Air Generators

Description

The **FID STATION PLUS** hydrogen and air generator uses the new and latest technology in polymer membrane (PEM) for the production of pure Hydrogen.

Its horizontal format allows positioning in over the laboratory bench while it provides you a support for set your GC, optimizing the space you need. Its 17 cm–only-height guarantee the best access to the injectors of any GC in the market. Generator is equipped with an automatic loading of de-ionized water from a smart internal system tanks that give to the customer a 7 liters of water autonomy, it means that with a FID standard flow, the **FID STATION PLUS** can provide up to 7000 liters of H₂ before the user refills it. Moreover, the practical system of internal de-ionizing cartridge replacement greatly simplifies the only maintenance recommended. The **FID STATION PLUS** is available in the usual flows of H₂ production up to 600cc/min with a purity of 5.0 or 6.0. Included in all models, the Zero Air generator that provides 1.5 liters of Zero Air with a contents of HC around 0.5ppm. It integrates a catalytic oven to remove the CH₄ and other Hydrocarbons (oil-free compressor not included). The Zero Air generator consists on a Palladium catalytic oven. The external compressed Air goes through a condenser with automatic drain system. A fine dust filter and a mechanical pressure regulator terminate to condition the air. The **FID STATION PLUS** avoids the need for expensive installation of gas pipelines from the cylinder storerooms to the labs, as well as the need to repeatedly change the bottles.



- Save lab bench space
- No maintenance
- PEM Membrane
- Built in 7L water tank
- Purity 99.9999%

Security:

In case of wrong internal functioning or leak in the H₂ circuit, the production of H₂ is stopped and an alarm is activated (automatic leak check). The suppression of dead volumes (<100ml) as well as an “on demand generation” avoid the stock of large quantity of hydrogen and enable the use of the instrument in area where hydrogen cylinders are restricted. An optional hydrogen sensor is available for monitoring the oven-LEL of the GC. The **FID STATION PLUS** series includes also, additional security features like the shock sensor against shocks generated by Earthquake.

Applications



The **FID STATION PLUS** is the indispensable tool for the alimentation in air and hydrogen of all FID, BTEX, NPD[^], TDC, VOC gas chromatographs. **Can be used also as reagent gas for ELCD / HALL.**

Hydrogen as carrier Gas:

Hydrogen as a carrier gas is faster and more sensitive than the more expensive helium. Run time savings of 25% to 35% without a decline in resolution.

Specifications

User interface: Set points, system status, user parameter / touch screen / LCD graphic display

Remote command: RS232/485 as option (Need I/O board option)

Noise level: <45 dBA

Power consumption:

H2 flow	100		220	300		600	
NM type	90W		125W	150W		300W	
PG type	70W		105W	130W		280W	
Air	from 50 to 150 W depending of the flow						

Power requirements: 230V/50-60Hz – 115V/60Hz – 100V/50-60Hz

Dimensions [cm]: 15 x 69 x 68 (HxWxD)

Tested weight support 80 Kg

Net weight [Kg]: 30 to 40 Kg depending on model

Shipping weight [Kg]: 30 to 42 Kg depending on model

Hydrogen Generator		Zero Air Generator	
Outflow generated [ml/min]	100-300-600 for the 99.9999% purity 100-220 for the 99.999% purity	Outflow generated	0 to 1.5 l/min at atmospheric conditions Need compressed Air
Outlet pressure	Adjustable between 0.1 and 11 bar	Outlet pressure	1 outlet adjustable between 1 and 6 bar
Purity	>99.9999% (PSA dryer) >99.999% (Permapure dryer)	Remaining pollutant level	HCnm < 50ppb HCm < 50ppb
Life time of deionizer bag	6 months		
Internal tank	7 L		

Models-Options – Accessories – Spare parts

Models:

6800 58 010.B FID-Station PG-Plus 100Nml/min + Air

6800 58 022.B FID-Station PG-Plus 220Nml/min + Air

6800 59 010.B FID-Station NM-Plus 100Nml/min + Air

6800 59 030.B FID-Station NM-Plus 300Nml/min + Air

6800 59 060.B FID-Station NM-Plus 600Nml/min + Air

B = Voltage

1 = Voltage 230V/50-60Hz

2 = Voltage 110V/60Hz

3 = Voltage 100V/60Hz

Options:

6900 52 001 I/O board (including cascading capabilities & RS232/485)

6900 52 002 PC Software (require I/O Board)

Consumables:

6700 21 762 Deionizer LE bag (incl. 2 standard bag)

