

# Nitrogen Generator

It meets the requirement of both purity and flow rate.

## Whisper N<sub>2</sub> Series

The Whisper nitrogen generator has been developed to meet specific requirements in terms of flow, purity and pressure in LCMS applications. It can also be used for the evaporation of solvents in samples being analyzed. The simple high efficiency membrane technology allows the separation of nitrogen from the other components of the compressed air inlet. The low pressure drop, just one bar, allows the unit to be connected to an existing dry and oil-free compressed air source in the lab.



Whisper N<sub>2</sub> series

Mini Whisper N<sub>2</sub>

## Mistral Evolution N<sub>2</sub> Series

The Mistral-Evolution nitrogen generator including a built-in oil-free air compressor is optimized to generate nitrogen of constant purity and hence improve the performance of the analytical instrument - which will result in an overall productivity improvement of the laboratory.

Using the PSA (Pressure Swing Adsorption) technology that removes oxygen, carbon dioxide and water from compressed air, the resulting stream pure nitrogen is ideal for laboratory applications like LCMS techniques and other inert gas applications.

There will be no extra cost anymore for gas supply, transportation, storage and handling. The pure nitrogen is produced locally at low pressure and at ambient temperature which is a very much appreciated advantage over high pressure gas cylinders or liquid nitrogen.

The low noise of the instrument allows the installation near the LCMS or next door up to 30 m apart.

### ● N<sub>2</sub> Generator Specifications

Brand	Mistral Evolution N <sub>2</sub>	Whisper N <sub>2</sub>													
Compressor	Built-in Compressor	External Compressor													
Production Technology	PSA (Pressure Swing Adsorption)	Membrane													
Produced Gas	N <sub>2</sub>	Hybrid (N <sub>2</sub> + Dry Air)						N <sub>2</sub>							
N <sub>2</sub> Flow Rate (L/min)	10 25 35 40	12 (Mini)	12	40	80	120	12 (Mini)	40	80	120					
Dry Air Flow Rate (L/min)	-	36			47			-							
N <sub>2</sub> Purity	99.5 % 99 % 98 % 97 %	99 %	99 %	97 %	97 %	95 %	99 %	97 %	97 %	95 %					
Application	ELSD LC/MS	LC/MS		LC/MS with the requirement of dry air						ELSD LC/MS		LC/MS			



Mistral Evo N<sub>2</sub> Series

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# High Purity Nitrogen Generator

Experience the improved efficiency in your lab.

## N<sub>2</sub> Tower Plus (High Purity N<sub>2</sub>)

N<sub>2</sub> TOWER Plus produces high purity N<sub>2</sub> for all major applications in analytical laboratories.

Nitrogen generators eliminate the typical problems associated with the handling of high pressure gas tanks while reducing the cost for high purity nitrogen at the same time.

The N<sub>2</sub> TOWER Plus generators use air from an external compressor and remove the oxygen to less than 10 ppm (hydrocarbons to <0.1 ppm is optional). The guaranteed flow rates of pure nitrogen are 500 mL/min, 750 mL/min, 1300 mL/min or 4000 mL/min depending on the generator module.



### ● N<sub>2</sub> Tower Plus Series

Model	N <sub>2</sub> Flow Rate (mL/min)	N <sub>2</sub> Purity	Application	Dimension (mm)
HP N <sub>2</sub> Tower 500	500	99.999 %	Carrier gas for GC	140 W x 490 H x 630 D
HP N <sub>2</sub> Tower 750	750			
HP N <sub>2</sub> Tower 1300	1300	99.99 %	ICP/ELSD/Incubators/ TGA(Thermogravimetric Analyzer)/DSC	
HP N <sub>2</sub> Tower 4000	4000	99%		

# Hybrid Gas Generator

Hydrogen + Zero Air - All in One Generator for GC

## FID Tower Plus

The FID Tower Plus hydrogen and air generator uses the latest technology in PEM(Polymer Electrolyte Membrane) for the production of pure hydrogen. Its vertical design allows positioning in over the laboratory bench so it requires only small space near your GC, optimizing the space you need.

Generator is equipped with an automatic loading of de-ionized water from a smart internal system tanks that give to the user over a 7L of water autonomy, it means that with a FID standard flow, the FID Tower Plus can provide up to 7000L of H<sub>2</sub> before the user refills it. Moreover, the practical system of internal deionizing cartridge replacement greatly simplifies the only maintenance recommended.



Temporarily Unavailable

### ● FID Tower Plus Series

Model	H <sub>2</sub> Flow Rate (mL/min)	H <sub>2</sub> Purity	Zero Air	Dimension (mm)
FID Tower NM Plus	100/160/250/300/500/600/1000	99.99996 %	HC & CO out < 0.1 ppm	140 W x 490 H x 580 D
FID Tower PG Plus	100/160/250/300/500/600	99.9996 %		

• GC FID / NPD / TCD / FPD

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