

NITROGEN GENERATORS



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Nitrogen generators are laboratory devices used for the production of nitrogen from atmospheric air that consists of approximately 78% nitrogen, 21% oxygen, and 1% other gases such as argon and water vapor. It works on the principle of membrane nitrogen generation or membrane separation. The membrane is made up of a bundle of hollow fibers arranged in a cylindrical shell and a tube heat exchanger through which compressed air is passed. The compressed air is passed through the inlet end of the separator and further passed through the hollow fibers in which air molecules start to permeate the fibers according to their permeability. Oxygen, carbon dioxide, and water vapor permeate faster than nitrogen, which leads to the production of a super-dry nitrogen stream at the outlet end. The oxygen-rich stream is vented into the atmosphere.

Used in GC-FID, FPD, NPD, TCD, AED, GC-MS, LC-MS-MS, ICP / NMR, FTIR / IR, ELSD detector, Purging, Ampule Filling, Thermal instruments, Turbo Evaporator (N2 Concentrator), All Analytical Instruments.

Also known as Laboratory Nitrogen Air Generator.

LTGAS13 AUTOMATIC NITROGEN GENERATOR

Automatic control, constant pressure, constant flow

Ultra high molecular membrane separation technique, PCAN carrier and precious metal catalyst

Deoxidation and Dehydration device, high purity

Compact, frees up valuable space

Easy operation, melimitate the need for expensive gas cylinder

Safe and reliable



SPECIFICATIONS

Model	LTGAS13-1	LTGAS13-2	LTGAS13-3
Nitrogen purity	Oxygen content <3PPM		
Flow Rate	0-1000 ml / min	0-300 ml / min	0-500 ml / min
Output Pressure	0-0.4 Mpa		
Pressure Stability	<0.003 Mpa		
Dimension	460x360x350 mm	370x180x330 mm	
Net Weight	20 kg	-	-
Consumption Power	150 W	60 W	100 W
Power Supply	220 V±10%, 50 Hz	220V±10% 50Hz	220 V±10%, 50 Hz
Humidity	-	<85%	
Environmental Temperature	1-40°C		



LTGAS13-1



LTGAS13-2



LTGAS13-3

LTGAS12 AUTOMATIC NITROGEN AIR GENERATOR

Stainless steel air tank inside

Deoxidization device

Output gas purity is higher

Inside machine use silicon rubber ring (lower content sulfur)

Increased gas output quality

Compact design, easy using, automatically operation, safety



SPECIFICATIONS

Model	LTGAS12-1	LTGAS12-2
Air Pressure	0.4 Mpa	
Nitrogen purity	Oxygen content < 3ppm, dew point-56°C	
Air Flow Rate	0-2000 ml / min	
Dimension	470x260x380 mm	
Net Weight	28 kg	
Consumption Power	210 W	250 W



LTGAS12-1



LTGAS12-2



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