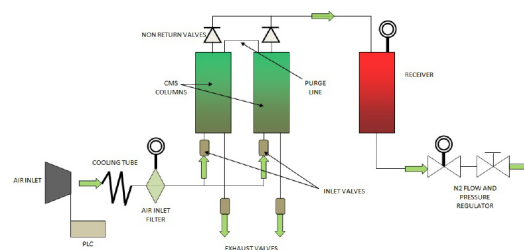


The Nitrogen generator use pressure swing adsorption technology (PSA) to produce pure nitrogen gas.

This technique uses a bed of carbon molecular sieve (CMS) to selectively remove oxygen and other contaminants from atmospheric air. The bed alternates between purification and regeneration modes to ensure continuous nitrogen production. The gas generator is designed to take compressed air at 8 barg from an integral oil free air compressor which is firstly pre filtered. This filtered compressed air stream is then passed to the CMS bed currently in purification mode. Whilst passing through the bed, the oxygen, carbon dioxide, moisture and some hydrocarbons are removed from the compressed air, resulting in a product stream of clean, dry, high purity nitrogen gas.



Models		Outlet Flow rate	Outlet Pressure	Inlet Air pressure required	Inlet Air Flow rate required	Size
Maestro-15	0	15 L/min	7 bar (101 psi)	8 bar (116 psi)	53 L/min	Size 3
	1	15 L/min	7 bar (101 psi)	-	-	Size 3
Maestro-25	0	25 L/min	7 bar (101 psi)	8 bar (116 psi)	68 L/min	Size 3
	1	25 L/min	7 bar (101 psi)	-	-	Size 3
Maestro-35	0	35 L/min N2	7 bar (101 psi)	8 bar (116 psi)	109 L/min	Size 3
	1	35 L/min N2	7 bar (101 psi)	-	-	Size 3
Maestro-64	0	64 L/min N2	7 bar (101 psi)	8 bar (116 psi)	115 L/min	Size 4
	1	64 L/min N2	7 bar (101 psi)	-	-	Size 5
Maestro-DF	1	35 L/min N2 @ 99% for Drying, sheath/nebulisation gas	7 bar (101 psi)	-	-	Size 4
		200 ml/min N2 @ 99.999% for collision gas	3 bar (43 psi)	-	-	
Maestro-DF/ EVOQ-TQ	1	32 L/min N2 @ 99% 50 L/min AIR, dewpoint < -20°C (-4°F)	5,5 bar (80 psi)	-	-	Size 5
Maestro-TF LCMS	1	12 L/min N2 for curtain gas	5.5 bar (80 psi)	-	-	Size 5
		24 L/min Dry Air for source gas	7.6 bar (110 psi)			
		8 L/min Dry Air for exhaust gas	4.2 bar (61 psi)			
Maestro-TF-HF	1	18 L/min N2 for curtain gas	4.1 bar (54 psi)	-	-	Size 5
		26 L/min Dry Air for source gas	7.6 bar (110 psi)			
		25 L/min Dry Air for exhaust gas	4.1 bar (54 psi)			

0	Without compressor
1	With compressor

Enclosure size	Height (cm)	Width (cm)	Depth (cm)	Weight (kg/lbs)
Size 3	83 (33")	43 (17")	80 (31")	118 / 260
Size 4			100 (39")	150 / 330
Size 5	113 (45")			160 / 352

Ambient Temp range	5 - 25°C (41 - 77°F)
Air Inlet Requirement (units without compressor)	Dewpoint : -40°C (-40°F)
	Particulate : < 1 micron Oil : < 0.01 mg/m ³
Electrical Supply	220 V ac / 1 ph / 50 Hz
	110 V ac / 1 ph / 50 - 60 Hz
Inlet / Outlet connections	G 1/4" (BSP) Female

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