

TORNADO LITE

Nitrogen Gas generator

Reference : TORNADO.[Flow rate]L



Description

The nitrogen generators serie Tornado Lite offer to you a unique, innovative solution to nitrogen gas supply.

A reliable, secure source of nitrogen can be produced from your existing compressed air supply, eliminating the need for liquid nitrogen or high pressure gas cylinders.

Conceived for a continuous operation, the Tornado Lite nitrogen generator can produce flow rates from a few liters per minutes to over NL/min at purities in oxygen content residual from 10 ppm to 3%.

The generator is controlled using the latest in HMI touch screen technology to display the process, pressures, inlet air dewpoint and oxygen levels with continuous monitoring complete with alarms.



Applications



Benefits & Savings

ECONOMY SAVING

- Quick return on investment < 1 year
- After installation, the generator require minimal attention and Maintenance

RELIABILITY AND SAFETY OF USE

- Nitrogen produced at low pressure and ambient temperature removes the hazards associated with high pressure cylinders and liquid Dewar's.
- Nitrogen available on request 24H per day ensuring the walk of the process in a regular and uninterrupted way

COMPACT DESIGN AND FLEXIBLE MODULAR OPTION

- The system demands less floor space
- The modular concept means the generators can be multi banked if required (Master/Slave configuration) Evolutionary System adapting as your business grows and gas requirements change

Standard Features

- Fully regenerative PSA technology: reduced risk of gas contamination and phthalate free
- Varying flow rates and purities
- HMI touch screen technology to display the process in real time, including process variables
- Oxygen sensor display with alarm
- Air inlet dewpoint display with alarm
- Audible alarm display and Visual maintenance indication with history log
- Analogue connections
- IP address for remote access via internet connection
- Quick and easy maintenance: access from front, no rear access required
- Automatic economy mode: enable to go in standby mode when no N2 is required

N2

MODELS	10 ppm	100 ppm	0.10%	0.5%	1.0%	2.0%	3.0%	4.0%	5.0%	Dimensions (W x H x D)	Weight (kg/lbs)
N2 FLOW RATE NL/min VIA O2 PURITY											
TORNADO-102L	10	20	30	45	50	70	85	-	-	40 x 115 x 58 cm (16" x 69" x 23")	150 / 330
TORNADO-104L	20	40	60	90	100	140	170	-	-		180 / 396
TORNADO-106L	30	60	90	135	150	210	255	-	-	40 x 115 x 76 cm (16" x 69" x 30")	230 / 507
Air/N2 ratio	10.8	5.9	3.6	3.4	2.8	2.6	2.4	2.2	2.1		

TECHNICAL DATA											
Temperature range	5 - 45°C (41 - 113°F)										
Air Inlet Pressure	6 - 16 bar (87 - 232 psi)										
Nitrogen Outlet Pressure	5 - 14 bar (72 - 203 psi)										
Air Inlet quality requirement	Dew Point: -40°C (-40°F)										
	Particulate: < 0.1 micron										
	Oil: < 0.01 mg/m ³										
Electrical Supply	90 - 260 V ac / 1 ph / 50 - 60 Hz										
	Power 0.2KW										
Signal / monitoring	no volt alarm & RS232										
Inlet / outlet connections	G 1/2 (BSP) F										

FACTOR OF CORRECTION					
Pressure (bar)	7.5	8	8.5	9	9.5
Pressure (psi)	109	116	123	130	138
Factor of correction	1.14	1.21	1.29	1.36	1.43

Notes :

- Specifications are based on 7 bar (101 psi) air inlet pressure 20 - 25°C (68 - 77°F) ambient air temperature
- For the TORNADO-102L, the N2 buffer is integrated and for the TORNADO-104L until 99.5% purity

Gold Service
Satisfaction Guaranteed

The products are guaranteed 24 months*. Beyond, your investment continues to be supported by our maintenance program [Gold Service]. Our world class technical assistance offers Programmed preventive maintenance to ensure optimal performance of your Gas generator F-DGSI and a priority intervention in case of failure.

*Year 2 of warranty subject to generator being serviced at end of the first year by a F-DGSI-approved agent in accordance with fixed annual maintenance schedule.
For full terms and conditions, visit www.f-dgs.com

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