

## NITRO-GEN 20 Nitrogen Generator

### DESCRIPTION

The NITRO-GEN 20 Nitrogen Generator (Catalog# NA1955) was developed with Organomation's nitrogen evaporators in mind, making it the most suitable generator for our instruments. This generator is a safe, reliable, and cost-effective alternative to traditional gas suppliers.

It is a lightweight, easy to set up unit that requires only a source of compressed air to run. This unit is an ideal choice for labs with an in-house compressed air source. The NITRO-GEN 20 produces up to 20 LPM of nitrogen gas and is recommended for evaporation of up to 48 samples.

The NITRO-GEN uses a hollow-fiber membrane to convert compressed air to a stream of 95-99% pure nitrogen gas. The hollow-fiber membrane consists of a series of narrow, semipermeable tubes in a porous membrane. As compressed air travels through the fibers, oxygen and water vapor permeate the membrane and are vented off, leaving a stream of high purity nitrogen gas. At up to 99% purity, the resulting N<sub>2</sub> gas stream can be used in a variety of sample preparation applications.



### ADVANTAGES

- **Quick Start-Up Time**- Nitrogen is produced instantly, no heat up time
- **Saves Energy**- No electrical power needed
- **Engineered Design**- Life expectancy is more than 10 years
- **Low Maintenance**- Serviceable clean air filter
- **Compact and Lightweight**- Small footprint conserves valuable bench space
- **Reduced CO<sub>2</sub> Emissions**- No heaters, less energy required

### STANDARD FEATURES

- Adjustable outlet pressure regulator, (0-100 psi)
- Replaceable internal air filter
- Requires an oil-less compressed air source

## NITRO-GEN 20 Specifications

Case Specifications	
Dimensions (L x W x H)	9.5 x 8 x 19.5 in 24.1 x 20.3 x 49.5 cm
Material	Aluminum (powder coated)
Weight	13.25 lbs 6 kg
Inlet Fitting	¼" Push-to-Connect Female
Outlet Fitting	¼" Push-to-Connect Female
Inlet Air Conditions	
Maximum Operating Pressure	10.3 bar g
Particles	Filtered at 0.01 µm cut off
Maximum Oil Vapor Content	<0.01 ppm (w)
Relative Humidity	<100% (non-condensing)
Ambient Conditions	
Ambient Temperature	36 °F to 122 °F 2 °C to 50 °C
Ambient Pressure	Atmospheric
Air Quality	Clean air without contaminants

## Flow Rate (LPM) and Purity (%) Based on Inlet Pressure

Inlet Pressure	Nitrogen Purity				
	99%	98%	97%	96%	95%
4 bar g	2.5	4.5	6.5	8.3	10.3
5 bar g	3.2	5.7	8.0	10.3	13.0
6 bar g	4.2	7.5	10.3	13.3	16.3
7 bar g	4.8	8.7	12.2	15.5	19.0
8 bar g	5.5	10.0	13.8	17.7	21.8
9 bar g	6.5	11.7	15.8	20.5	25.3
10 bar g	6.8	12.5	17.3	22.2	27.3

Based on conditions at 1.01 bar and 20 °C