

# Nitrogen Generator Comparison

## Organamation NITRO-GEN vs. Parker NitroVap



	Organamation NITRO-GEN	Parker NitroVap-1LV and NitroVap-2LV
<b>List Price</b>	<b>\$5-7k</b>	<b>\$14-19k</b>
<b>Flow Rate</b>	Up to 20 L/min	NitroVap-1LV: Up to 140 L/min NitroVap-2LV: Up to 287 L/min
<b>Flow rate at 95% purity and 7 bar air supply</b>	19 L/min	NitroVap-1LV: 62 L/min NitroVap-2LV: 124 L/min
<b>Purity</b>	95-99%	90-99%
<b>Max Output Pressure</b>	0-100 psi / 0-6.9 bar	0-15 psi / 0-1 bar
<b>Compressor Included?</b>	No	No
<b>Dimensions</b>	9.5 x 8 x 19.5 in. (L x W x H) 13.25 lbs.	14.1 x 10.63 x 16.5 in (L x W x H) 53 lbs.
<b>Warranty</b>	1 year	1 year
<b>Digital Display?</b>	No	No
<b>Touch Screen?</b>	No	No
<b>Noise Level</b>	Negligible (<40 dBA)	Negligible

The NITRO-GEN and NitroVap are both highly popular nitrogen generators for sample preparation applications. Now that you've compared their main specifications, let's get into when each generator would be preferred.

### Organomation NITRO-GEN

The NITRO-GEN generator was designed to be paired with Organomation nitrogen evaporation equipment, and is recommended for use with all Organomation evaporators up to 48 sample positions. The NITRO-GEN is also a great solution for use with Thermo Fisher's Reacti-Vap evaporators as they require a fairly low nitrogen flow. The generator's purity is dependent on both inlet pressure and output flow rate required, however the 95-99% purity range allows it to be suitable for most sample preparation applications.

### Parker NitroVap

The NitroVap generator is suitable for supplying gas to Labconco RapidVap systems, which require a high flow rate but low pressure. Similar to the NITRO-GEN, the NitroVap's purity level is dependent on both inlet pressure and output flow rate required. To reach the maximum flow rates (140 L/min for NitroVap-1LV and 287 L/min for NitroVap-2LV), purity will be closer to 90%, which is lower than the minimum recommendation of 95% purity for most sample preparation applications.

### Considerations

It's important to consider all factors such as purity, flow, and pressure requirements of your evaporator before selecting a generator. Below is a table showing the inlet flow and pressure levels required for common nitrogen evaporators.

Model	Inlet Pressure	Minimum Flow Rate
Organomation 24 Position N-EVAP	20-30 psi	8 L/min
Organomation 48 Position MULTIVAP	30-110 psi	16 L/min
Organomation 100 Position MULTIVAP	30-110 psi	33 L/min
Thermo Fisher Reacti-Vap 27 Port	Up to 2 psi	9 L/min
Labconco RapidVap N2	5-20 psi	17 L/min
Labconco RapidVap N2/48	5-20 psi	100 L/min
Labconco RapidVap Vertex	Up to 50 psi	185 L/min
Biotage TurboVap II and LV (24 positions)	58-130 psi	120 L/min
Biotage TurboVap II and LV (48 positions)	58-130 psi	160 L/min