

Membrane Nitrogen Generator

Polyvance's Nitrocell Nitrogen Generator is a leap forward in production of nitrogen for plastic welding. The Nitrocell utilizes state-of-the-art, proprietary membrane separation technology to separate compressed air into two streams; one is 97%-99%+ pure nitrogen, the other is a mixture of oxygen, carbon dioxide, water and other gases.

The nitrogen stream is channeled into the plastic welder to be used for welding thermoplastics. The remaining oxygen enriched gases are vented to the atmosphere.

A three-stage filtering system ensures only clean air reaches the nitrogen membrane. A magnetic access door makes checking the filter condition quick and easy. The Nitrocell generator only requires filter replacement when contamination occurs, or annually with daily use.

The Nitrocell generator is a valuable addition to any hot air welding system that uses compressed air or nitrogen. With the Nitrocell, you will never need to buy nitrogen and you will also never run out of nitrogen because the Nitrocell continuously produces it. With no moving parts or electronics, the Nitrocell is also one of the simplest and most reliable nitrogen generators in existence.



Features and Benefits:

- Converts 105 PSI of compressed air into a continuous 20 LPM supply of 97%+ pure nitrogen
- No electrical or moving parts to fail
- Low maintenance costs
- Easy to install and maintain
- Heavy gauge powder-coated steel housing to protect critical components
- One year warranty Warranty void if membrane contaminated with oil, water, or other contaminants, or if membrane has suffered other physical damage.

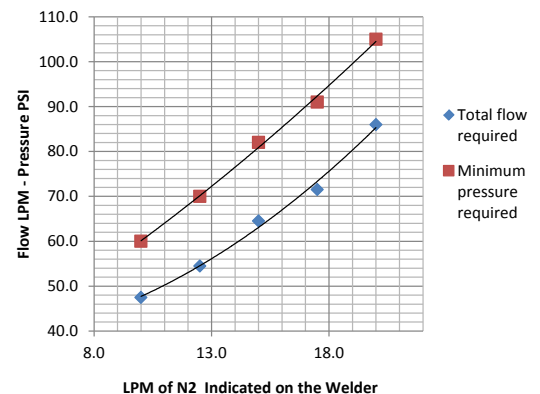
System Requirements:

- 90 psi clean, dry, and oil free compressed air supply
- Hot air or nitrogen welder requiring compressed air to operate
- A welding cart with a bottle tray of 10.5" x 10.5" minimum

Instructions:

- 1) Connect the generator to a clean and dry 90 to 150 PSI compressed air supply. Connect the generator outlet to the plastic welder inlet fitting.
- 2) Check filters daily for contaminants. If dirty, purge the air supply lines going to the generator and rectify the problem before reconnecting the generator. Open the drains of the filters inside the cabinet until the contaminants are removed from the filter. Note: Warranty void if membrane contaminated with oil, water, or other contaminants, or if membrane has suffered other physical damage.
- 3) If using the Nitrocell Generator on a welder equipped with both air and nitrogen (the 6053, 6057, or the 6059 welders), purge the air from the nitrogen lines before starting your initial weld.
- 4) The higher the inlet pressure and the lower the outlet flow, the purer the nitrogen supply will be. See chart for details. Up to 150 PSI air can be used safely.

Air Consumption Minimums to Produce 97% Pure Nitrogen



Technical Information

N2 Flow @ 105 psi

inlet pressure:	20 L/Min 97% pure
Unit Weight:	14.1 Kg (31 lbs)
Unit Dimensions:	24.6 cm L x 26.2 cm W x 88.9 cm H (9.7" L x 10.33 W x 35" H)
Air Requirement:	6.9 - 10.3 bar (100 - 150 psi) Air must be clean and dry.
Electrical:	none
Shipping weight:	16.3 Kg (36 lbs) (w/o pallet)
Shipping dims:	31.2 cm L x 31.8 cm W x 101.6 cm H (12.3" L x 12.5" W x 40" H)



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