

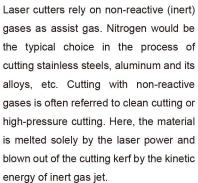


# PRODUCT

# Laser Cutting Nitrogen Supply \_

- Onsite PSA Nitrogen Generation Package

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#### CAN Gas Delivers Pure N., Gas for Optimum Results in Laser Cutting

Purity of  $N_2$  gas is vital to cutting quality. Even a wee bit of  $O_2$  contamination in cutting kerf will affect appearance of the cut, causing a yellowing of the metal or forming dross that has to be removed. With an  $N_2$  generator from CAN Gas, you never have to worry about these.  $N_2$  gas is produced at 99.95% to 99.999% purity without sacrificing the  $N_2$  pressure required by the laser cutting machines.

#### CAN Gas Lowers Your Na Gas Costs Dramatically

With an  $N_2$  generator at jobsite, users don't have to worry about the logistics problems or expenses associated with bulk nitrogen or  $LN_2$  supply. Instead, they can save up to 80% of their future investment. Even if the capital and maintenance costs of the  $N_2$  generator was factored in, hundreds of thousands of dollars still can be saved. With these facts, most laser cutting companies say that switching to onsite nitrogen gas supply for their laser cutters is clearly imminent.

#### CAN Gas Customizes the Best Solution of N. Supply for Your Laser Cutting Factory

Provide following information, we deliver suitable solution to you.

- 1. Daily bulk nitrogen consumption or laser machine manufacturer's instruction for required nitrogen flow.
- 2. Type and thickness of materials to be cut and rated power of laser machine.
- 3. Available compressed air (if any) at site for nitrogen production in m³/min.
- 4. Required N<sub>2</sub> pressure. N<sub>2</sub> Pressure of up to 500 psi is available from CAN Gas for the most powerful laser cutter.

# Specialized N<sub>2</sub> generator models dedicated for laser cutting

Other capacities not listed are available or customizable.

Model	CAPN HP-30	CAPN HP-50	CAPN HP-80	CAPN HP-100	CAPN HP-150
N <sub>2</sub> Purity	99.95~99.999%				
$\mathbf{N}_{_2}$ Flow	40 ~ 18.2 Nm³/h	$65 \sim 28 \text{ Nm}^3/\text{h}$	105 ~ 44.8 Nm³/h	125 ~ 52.5 Nm³/h	200 ~ 88.2 Nm³/h
	23.8 ~ 10.8 scfm	38.7 ~ 16.7 sefm	62.8 ~ 26.7 sefm	74.4 ~ 31.3 sefm	119 ~ 52.5 scfm
N <sub>2</sub> Pressure	$15.0\sim35.0$ bar (218 $\sim500$ psi) customizable				

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#### FAQ

#### Q: How much nitrogen do I need?

A: To get a rough idea, review your bulk nitrogen purchased over a period of several months. However, the average will not reflect your instantaneous N<sub>a</sub> consumption. For exact requirements, refer to user manual or contact the manufacturer of laser cutter.

#### Q: Can I produce nitrogen at pressures high enough for laser cutting? (Up to 500 psi)

A: Gaseous nitrogen is typically produced at pressures of  $85\sim100$  psi. CAN Gas will include an  $N_2$  booster compressor in the package to achieve the desired pressure.

# Q: Can I keep liquid nitrogen as a backup?

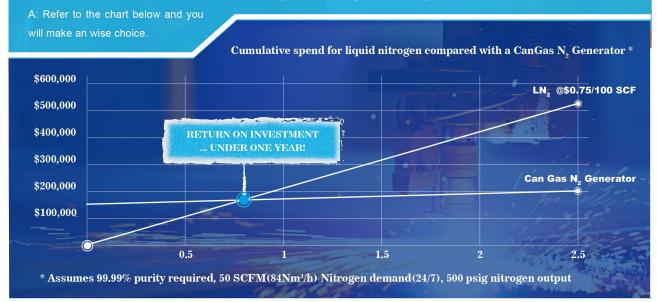
A: Absolutely! However, you can send back your large rented liquid storage tank and get much smaller one which will particularly reduce the amount of liquid nitrogen loss at the evaporator. You will still save significant expenses and have liquid nitrogen available for unexpected peak usage and if there is downtime for compressor maintenance.

# Q: Is ambient air temperature important?

A: Yes. Temperature will affect the working condition of on-site nitrogen production. CAN Gas always ensure that your actual jobsite conditions are taken into consideration during design stage.



Q: Can I have an exact comparison between the N<sub>2</sub> supply by LN<sub>2</sub> and onsite N<sub>2</sub> generator regarding all costs?



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