

N50



Praxair's Onsite Nitrogen plants are the preferred solution for customers who demand high reliability and low total cost of supply.

If you are focused on efficiency, Praxair Onsite Nitrogen plants are designed with you in mind. You care about the cost of nitrogen, but you also know how important it is to your operation. Praxair plants are designed and constructed to meet stringent reliability requirements. Praxair plants are also designed to be efficient.

Praxair's modular plant design means we will install your plant in a matter of days with a minimum of disruption to your facility and operation. The combination of effective installation, high efficiency and reliability makes Praxair's Onsite Nitrogen system the cost effective choice.

Praxair's Onsite Nitrogen Plants:

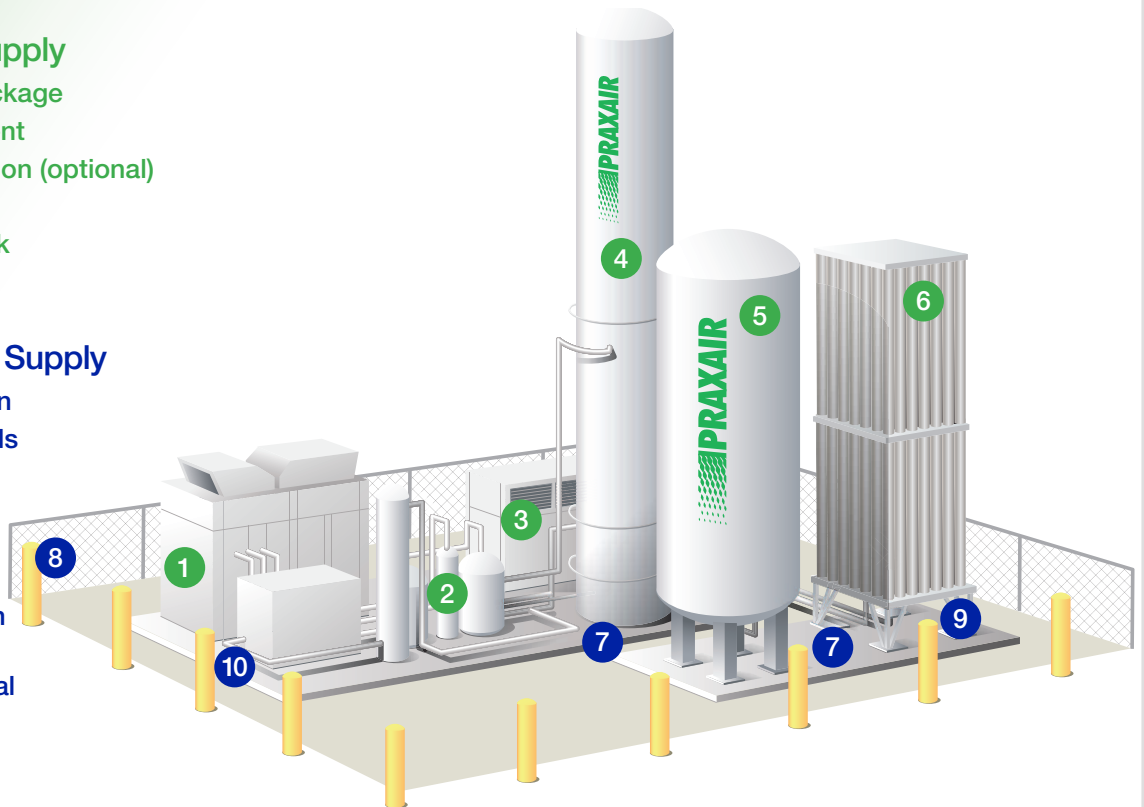
- Leading safety performance
- High reliability
- Remote monitoring and operation
- Liquid backup supply
- Robust design
- Low cost mode of supply
- Power efficient
- Superior turndown
- World-class project execution
- Modular plant design
- Compact plot size
- Minimal customer site prep
- Less installation time
- Reduced noise

Praxair Scope of Supply

1. Air Compressor Package
2. Prepurifier Equipment
3. Nitrogen Compression (optional)
4. Cold End
5. Liquid Nitrogen Tank
6. Vaporizer

Customer Scope of Supply

7. Concrete Foundation
8. Fence/Crash Bollards
9. Nitrogen Piping to Point of Use
10. Power Supply/Electrical
11. Ethernet Connection (not shown)
12. Condensate Disposal (not shown)



For customers needing up to 61,900 cfh-ntp of nitrogen, the ideal supply is Praxair's N50. The N50 is a cryogenic nitrogen plant that consists of a **Warm End** which includes the air compressor package and prepurifier equipment, and a **Cold End** which includes the distillation column, primary heat exchanger, and main condenser. The N50 uses liquid assist for the refrigeration requirement of the plant. The system also comes with a liquid nitrogen **Backup System** for ultimate reliability.

The N50 also has a turbine option which eliminates the liquid assist requirement and enables the plant to produce small amounts of liquid nitrogen.

The N50 is designed to operate without a nitrogen compressor for pressures up to 85 psig and with a nitrogen compressor for pressures above 85 psig. This allows the N50 to have the lowest possible unit power. Plant capacity varies with operating pressure.

Plant	N50
Product flow, cfh-ntp	61,900
Product purity	>99.999%
Product pressure, psig	150
Air compressor, hp	300-450
Power feed, volts	480
Base plant layout	73.5' x 40'

Praxair's Onsite Nitrogen Plant Line

