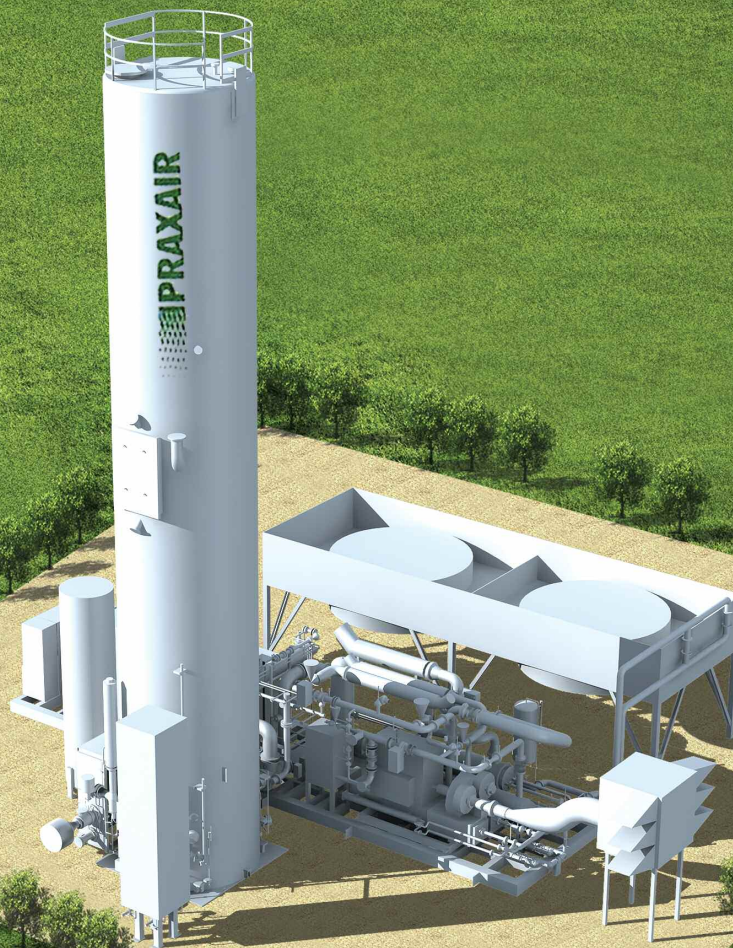


# N180



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:

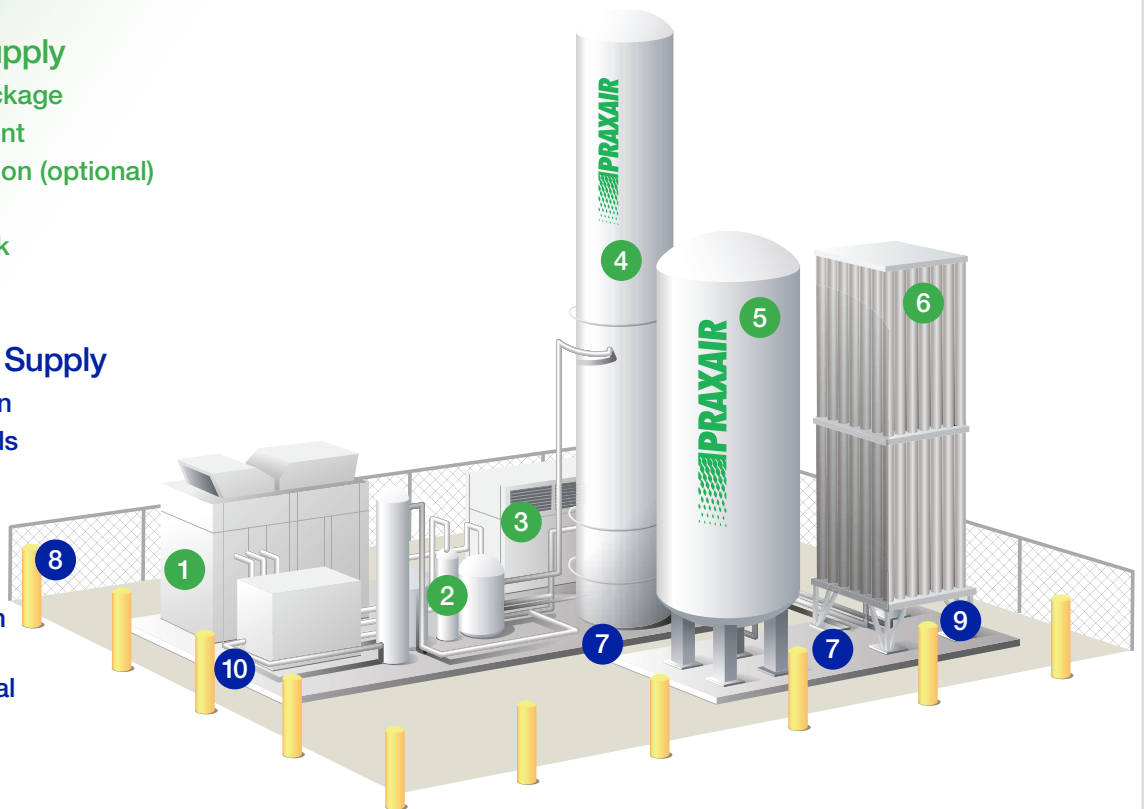
- Leading safety performance
- High reliability
- Remote monitoring and operation
- Liquid backup supply
- Robust design
- Low cost mode of supply
- Power efficient
- Superior turndown
- World-class project execution
- Modular plant design
- Compact plot size
- Minimal customer site prep
- Less installation 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 211,800 cfh-ntp of nitrogen, the ideal supply is Praxair's N180. The N180 is a cryogenic nitrogen plant that consists of a **Warm End** which includes the air compressor package, electrical equipment and switching valves, and a **Cold End** which includes the distillation column, primary heat exchanger, and main condenser. The system also comes with a liquid nitrogen **Backup System** for ultimate reliability.

The N180 has a turbine which eliminates the liquid assist requirement and enables the plant to produce small amounts of liquid nitrogen.

The N180 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 N180 to have the lowest possible unit power. Plant capacity varies with operating pressure.

Plant	N180
Product flow, cfh-ntp	211,800
Product purity	>99.999%
Product pressure, psig	140
Air compressor, hp	1,750-2,500
Power feed, volts	4,160
Base plant layout	78' x 88.3'

## Praxair's Onsite Nitrogen Plant Line

