



ON-SITE NITROGEN GENERATOR

NCT and NCE

The Nitrogen Concentration Trolley (NCT) and Nitrogen Concentrator Electric (NCE) produce high purity, extremely dry nitrogen at high pressures on the flightline in order to service LAU-7/LAU-127 cylinders and TMU-72 units for Sidewinder missile support.

Characteristic	Value / Description
N ₂ Purity	99.5%, less than 2 ppm water
Pressure	10 scfm @ 5000 psi
Weight	Approximately 3500 lbs
Dimensions	80" Long x 72" Wide x 63" Tall (NCT) 80" Long x 72" Wide x 57" Tall (NCE)
Powered by	Diesel fuel, JP-4, JP-5, JP-8, or Jet A (NCT) 380 Volt 3 Phase 50 Hertz and 60 Amps minimum (NCE)
On board storage	900 scf on board nitrogen storage at 5000 psi

Proven Reliability

The Nitrogen Concentration Trolley (NCT) is a special version of the standard SGNSC, modified specifically to produce high purity, low water content nitrogen.

The Sidewinder requires exceptionally dry nitrogen with a moisture content of less than 2 parts per million of water. This very stringent specification requires the use of specialized membranes designed to reduce contaminants to extremely low levels:

Meets the following nitrogen specifications:

Water	<2 PPM by volume
Carbon Dioxide	<2 PPM by volume
Total Hydrocarbons	<10 PPM by volume
Solid Particles	<10 microns

System Design

The NCT is self-contained and integrated on a four wheel, towable trailer. All components are mounted inside a weatherproof fiberglass enclosure.

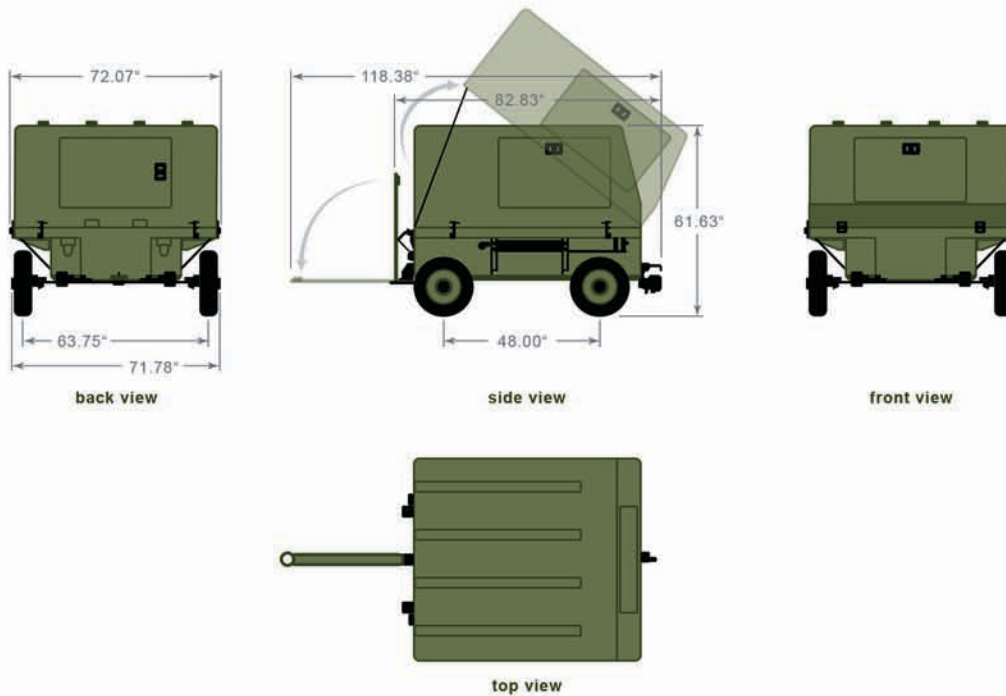
1. On-board analyzer continuously monitors nitrogen purity.
2. Nitrogen system pressure is automatically regulated between the specified minimum pressure and 5000 psi.
3. Four safety tubes for refilling LAU-7/LAU-127 cylinders.
4. Fifty foot, reel mounted low pressure servicing hose, adjustable from 0 to 400 psi for tire and accumulator service.
5. Fifty foot, reel mounted high pressure hose, adjustable from 400 to 5,000 psi for strut servicing and connection to GCU-26/GCU-30 refilling system for TMU-72 units.
6. Approved for F-16 EPU purging and aircraft service.

NCT and NCE (continued)

System Advantages

1. The addition of the LAU cylinder refilling capacity means the NCT is capable of fulfilling all flightline nitrogen requirements; including tire filling, charging landing struts, charging hydraulic accumulators, etc.
2. Nitrogen specifications are achieved within 15 minutes of starting up the unit. This is accomplished by insulating the lines and membrane to reduce heat losses in the feed air and membrane so the membrane can reach operating temperature quickly.
3. Totally eliminates the logistical tail. Once deployed to the forward location, the NCT requires no additional logistical support beyond the available aircraft jet fuel.

Dimensions



PCI has manufactured thousands of nitrogen and oxygen generation systems for operation in the most demanding and remote locations on earth. PCI's products enable customers to produce oxygen and nitrogen at the point-of-use, effectively eliminating the logistical supply chain associated with delivered product.

For more information please contact us at:

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