



ON-SITE NITROGEN GENERATOR

SGNSC and HP SGNSC

SGNSC and HP SGNSC (High Purity)

SGNSC generates large volumes of high purity nitrogen on the flightline at constant high pressure. The HP SGNSC has been universally designed to provide high purity for all aircraft.

Characteristic	Value / Description
N ₂ Purity	Part # HP: 791600-003 (NSN: 3655-01-572-1180) Part # LP: 791600-001 (NSN: 3655-01-463-3338) 95.5% (SGNSC) 99.5% (HP SGNSC)
Pressure	15 scfm @ 4400 psi (SGNSC) 10 scfm @ 4400 psi (HP SGNSC)
Weight	Approximately 3000 lbs
Dimensions	80" Long x 72" Wide x 63" Tall
Powered by	Diesel fuel, JP-4, JP-5, JP-8, or Jet A
On board storage	830 scf on board nitrogen storage at 4400 psi

Proven Reliability

The Self Generating Nitrogen Servicing Cart (SGNSC) completed extensive and rigorous testing to validate its suitability for military usage in all locations around the world under all environmental conditions.

These carts are far superior to existing, outdated, and expensive methods of supplying nitrogen as they eliminate the logistical tail associated with high pressure gas cylinders or liquid conversion systems. No more shipping 160 pound nitrogen cylinders that only contain 18 pounds of nitrogen. No more nitrogen logistical support...period!

System Design

PCI's SGNSC is self-contained and integrated on a four wheel, towable trailer. All components are mounted inside a weatherproof fiberglass enclosure.

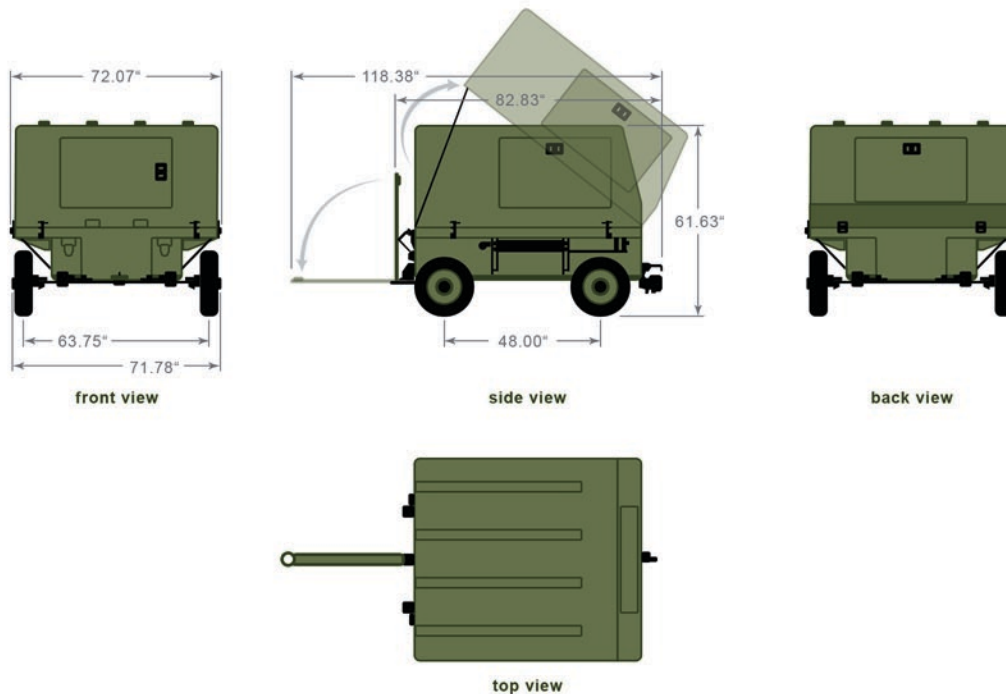
1. Powered by a reliable diesel engine, the SGNSC will run on diesel fuel, JP-4, JP-5, JP-8, or Jet A. Any fuel used in the aircraft will be compatible.
2. On-board nitrogen purity analyzer continuously and automatically maintains the nitrogen purity.
3. Nitrogen supply pressure is automatically regulated. System turns on at the specified minimum pressure and off at maximum pressure.
4. Operator requirements are reduced to starting and stopping the unit. Safety shutdowns are automatically activated.
5. Doors are located at all maintenance check points. The lightweight, fiberglass cover tilts up for increased access, and is removable by two persons (no tools required) for total access.

SGNSC and HP SGNSC (continued)

System Advantages

1. Nitrogen, when you need it, where you need it. Obsolete cylinder systems are frequently empty or too low in pressure to be usable when you need them the most. SGNSC is always ready with nitrogen at high pressure.
2. Eliminates cross contamination problems. Serious aircraft grounding damage is often caused by the failure of critical seals. The root cause of these failures has been traced to contamination, rust and dirt introduced from the nitrogen cylinders. The sealed system on the SGNSC eliminates the primary cause of this contamination.
3. Totally eliminates the logistical tail. Once deployed to the forward location, the SGNSC 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.

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