

**HIGH PURITY SELF GENERATING NITROGEN
SERVICE CART(HP-SGNSC), DIESEL ENGINE DRIVEN
P/N: 130009-100
NSN: 3655-01-621-3426**



HYDRAULICS INTERNATIONAL, INC.

9201 Independence Avenue, Chatsworth, CA 91311, U.S.A.

Tel: +1(818) 718-2462

Fax: +1(818) 718-2459

Website: www.hiigroup.com

The technical information contained on this product sheet is current as of this publishing. Information contained herein is subject to revision without advanced notification from the manufacturer. For the most recent up-to-date information, please contact Hydraulics International, Inc.
All rights reserved ©2014 Hydraulics International, Inc.

HIGH PURITY SELF GENERATING NITROGEN SERVICING CART (HPSGNSC) Type I, P/N 130009-100, NSN: 3655-01-621-3426

This Nitrogen Servicing Cart is a self-contained, enclosed, four wheel, towable, internal combustion engine, trailer mounted cart, designed to produce gaseous Nitrogen at a flow of 30 Standard Cubic Feet per Minute (SCFM), at purity of 99.5% or better, and a pressure of 5,000 Pounds per Square Inch Gauge (psig) to the flight line and the maintenance shops to support multiple airframes. The nitrogen servicing cart can be used to perform the following functions:

- The low pressure side of the nitrogen cart provides a source of nitrogen at controlled pressures of 0-400 PSI to service aircraft tires or other components.
- The high pressure side of the nitrogen cart provides a source of nitrogen at controlled pressures of 0-5000 PSI to service aircraft high pressure nitrogen system and components.
- Fill up on-board storage bottles with 5,000 PSIG pure 99.5% nitrogen or better in less than 45 minutes at ambient temperature.

Features:

- Automated PLC controlled nitrogen generation and filling with minimum operator interaction limited to “ON” and “OFF” operation.
- Sophisticated automatic and continuous nitrogen purity control and calibration with on-board purity analyzer
- Full operation and maintenance diagnostic via Human Machine Interface (HMI) touch screen with fault logs and troubleshooting aid.
- Unlike any other nitrogen generators in the market, HII 100% Oil-less feed and high pressure air compressors eliminate the need for oil separators, as a result extending the life of the nitrogen separation membranes, eliminating oil filter change, maintenance resulting in reduction of the overall life cycle cost of the HPSGNSC.

Leading Particulars

ITEM	CHARACTERISTICS
Overall Dimensions:	
Cubic	355 cu. ft. (10.05 cu. meters)
Length.....	104 in (2.641m)
Width	78 in (1.981 m)
Height	75 in (1.905 m)
Weight (Dry).....	App. 6,200 lbs (2,500 kg)
Operating Range:	
Ambient temperature range	-40°C to +60C (-40°F to +140°F)
Altitude range.....	Sea level to 6000 ft.
Relative humidity	40% RH at 140°F
Storage	-65°F to +160°F
Purity	99.5% N ₂ (~.5%O ₂); H/c <10ppm by volume
Flow Rate.....	30 scfm continuous delivery of Nitrogen at 99.5% purity
Quality Specification	A-A-59503 (Type 1 -gaseous, oil-free)
Powered by:	
Engine	Cummins QSB4.5 diesel engine, 165 HP@2000 rpm
Fuel	DF-1, DF-2, JP-4, JP-5, JP-8, or Jet A
Fuel Tanks Capacity	47 gallons (23.5 gallons/tank)
Filtration After Membrane:	
Moisture Content	0.01 micron; <.0.5% N ₂ ; ≤10 ppm by volume; 0.003 ppm with oil vapour
Nitrogen Receivers capacity	Total 950 scf @5000 psi and 99.5% purity
Pressure Outlet Available:	
Low Pressure	0-400 psig
High Pressure	400-5000 psig
Gas Cylinder Spec:	
Specification	ISO 9809-2:2000, DOT 3AA Exempt
Accessories:	
High pressure accessory hose.....	-4 size, 37° flare, 50 feet, rated for 4800 psi
Low pressure accessory hose	-4 size, 37° flare, 30 feet, rated for 5800 psi
Charging port.....	Swagelok fitting, o-ring face seal VCO, size ¼
Mobility:	20 mph max towing speed
Transportation:	8 tie down rings, 2 side forklift pockets



HYDRAULICS INTERNATIONAL, INC.

9201 Independence Avenue, Chatsworth, CA 91311, U.S.A.

Tel: +1(818) 718-2462

Fax +1(818) 718-2459

Email: sales@hiinet.com

The technical information contained on this product sheet is current as of this publishing. Information contained herein is subject to revision without advanced notification from the manufacturer. For the most recent up-to-date information, please contact Hydraulics International, Inc.

All rights reserved ©2014 Hydraulics International, Inc.