

HIGH PRESSURE N2 GAS GENERATORS OIL-LESS COMPRESSORS GENERATE HIGH PURITY NITROGEN Model: HP-SGNSC

Take control of your Nitrogen production and cost



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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.
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HIGH PURITY SELF GENERATING NITROGEN SERVICING CONSOLE (HP-SGNSC) Type II, P/N 130010-100 (Electric) or P/N 130009-100 (Diesel)

This Nitrogen Servicing Cart is a self-contained, enclosed, skid mount, electric or diesel driven 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.
- HP-SGNSC is qualified to the most rigorous military tests:
 - Nitrogen Purity per A-A-59503C
 - Electro Magnetic Interference MIL-STD-461
 - Environmental MIL-STD-810
 - European CE Mark; 2014/35/EU, 104/30/EU

Leading Particulars

ITEM	CHARACTERISTICS
Overall Dimensions:	
Cubic	356.77 cu. ft. (10.102 cu. meters)
Length	104 in (2.641m)
Width	78 in (1.981 m)
Height	76 in (1.93 m)
Weight (Dry)	App. 7,300 lbs (3,311 kg)
Operating Range:	
Ambient temperature range	-40°C to +60°C (-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:	
Electric Motor or Diesel Engine.....	Motor, 150 HP@1800 rpm, 460/380 VAC, 3 Phase, 60/50 Hz OR Cummins QSB4.5 diesel engine, 165 HP@2000 rpm
Filtration After Membrane:	
Moisture Content	0.01 micron; <.05% N ₂ ; ≤10 ppm by volume; 0.003 ppm with oil vapour
Nitrogen Receivers capacity	Total 912 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 5800 psi
Low pressure accessory hose	-4 size, 37° flare, 50 feet, rated for 5800 psi
Charging port.....	Swagelok fitting, o-ring face seal VCO, size ¼
Transportation:	
	8 tie down rings, 2 side forklift pockets



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