



## **AIR DRILLING SERVICES**

### **Equipment Information & Specifications**





# **Nitrogen Production Unit Specifications**



## **NPU-3000 Specifications**



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## Unit Specifications:

Item Description:	Item Specification:
Manufacturer:	IGS Generon
Model:	NPU-3000
N <sub>2</sub> Output @ 95% N <sub>2</sub> + Inerts	3000 scfm / 81 Nm <sub>3</sub> /m
Maximum Working Pressure	330 psig / 23 barg
N <sub>2</sub> Dew Point (Atm)	< -84°F / < -64°C
Dimensions (LxWxH) ft/m	20' x 8' x 8'6"/3 x 2.4 x 2.6
Weight (lbs/kg)	29,000 lbs / 13,154 kg
Operating Temperature Range	-40°F / 131°F (-40°C / 55°C)
Electrical Power	480V / 3Ph/60Hz Standard, customer to specify alternate power supply
PLC Operator Terminal	Standard
Heater	Standard
Oxygen Analyzer	Standard
Air Cooler Standard	Standard
Remote Telemetry	Optional
Electrical Generator	Optional
Heavy Duty Oilfield Base Skid	Optional

## Unit Specifications:

Item Description:	Item Specification:
Manufacturer:	IGS Generon
Model:	NPU-3000
N <sub>2</sub> Output @ 95% N <sub>2</sub> + Inerts	3100 scfm / 81 Nm <sub>3</sub> /m
Maximum Discharge Pressure	5000 psig / 345 barg
N <sub>2</sub> Purity Range	93 - 99+%
N <sub>2</sub> Dew Point (Atm)	< -84°F / < -64°C
Dimensions (LxWxH) ft/m	8x(20x8x8.5) / 8 x (6.2x2.5x2.6)
Weight (lbs/kg)	121,000 lbs / 54,885 kg
Required Utilities	Diesel Fuel and 24 VDC Power



## Feed Air Compressor Specifications:

<b>Item Description:</b>	<b>Item Specification:</b>
Compressor Type	Oil-Lubricated, Air Cooled, Rotary Screw
Rated Shaft Horsepower	2520 Hp / 1880 kW
RPM Operating Range	1800-2100
Temperature Range	-40°F / 131°F (-40°C / 55°C)
Prime Mover	Diesel Engine - Standard, other per customer requirement

## N2 Booster Compressor Specifications:

<b>Item Description:</b>	<b>Item Specification:</b>
Compressor Type	Multi-stage, Air-cooled, Reciprocating
Rated Shaft Horsepower	1092 Hp / 814 kW
RPM Operating Range	1800-2100
Temperature Range	-40°F / 131°F (-40°C / 55°C)
Prime Mover	Diesel Engine - Standard, other per customer requirement

## System Power Specifications:

<b>Item Description:</b>	<b>Item Specification:</b>
Electrical System	Diesel Engine - Standard, other per customer requirement
Starter	24 VDC
Engine Heater	Glycol System
Controls	Centralized Panel, PLC-based
Skid Configuration	Heavy duty, Roll-off capability or standard ISO container
Weather-Proof Enclosure	Optional, per customer specifications



## General Performance Specifications:

<b>Item Description:</b>	<b>Item Specification:</b>
AMBIENT CONDITIONS	Temperature: 100 °F Relative Humidity: 77%
MEMBRANE SYSTEM OUTPUT	Product Flow: 3000 SCFH @ 350 psi(g) Product O <sub>2</sub> Content: 5% average
POWER SPECIFICATIONS	Voltage: 460 VAC / 3 Phase Frequency: 60 Hz Amperage: 175 Amps (full load)