

Trailer Mounted NPU (Nitrogen Production Unit)

NPU-1500



Specifications

Trailer:	Lufkin or Great Dane 45' x 102" drop-deck trailer with hydraulic leveling legs, total weight is approximately 58,000 lbs
Air Compressor:	Sullair two-stage rotary screw, oil-flooded, high pressure air end, providing up to 1,350 SCFM and 500 PSIG
Air Compressor Engine:	Caterpillar C-18: 6-cylinder, 4-cycle, 18-liter, EPA Tier III electronically controlled diesel engine rated at 700HP at 1,800 RPM, equipped with a spark arresting muffler (standard) Detroit Series 60: 6-cylinder, 4-cycle, 14-liter, EPA Tier II electronically controlled diesel engine rated at 665HP at 2,100 RPM, equipped with a spark arresting muffler (optional)
Cooling System:	Designed to provide engines with adequate cooling up to 115° ambient temperature
Mist Pump:	Kerr 3300 triplex pump, 3" stroke, 1¾" plungers, up to 50GPM at 2,500PSIG
Nitrogen Unit:	Manufactured by Generon using high efficiency membrane technology, modules designed to deliver 90-99.99% nitrogen purity continuous at 500PSIG
Nitrogen Unit PLC:	Allen Bradley PLC Controller to provide instant, real-time readout of volume, capacity, purity, and percentage of O2 left in the gas stream, target nitrogen purity is 95% or 5% O2 left in gas stream (at 1,500 PSI down-hole with methane present, 8.5% of O2 in the gas stream is required for ignition/fire)
Purity Control:	Purity control valve is automated once purity is set, purity control valve will take over the complete regulation of purity control (O2 left in gas stream)
Fuel Tank:	(1) 1,500 gallon, rectangular, closed-top fuel tank providing up to 24 hours of operation without the need to refuel
Manifold:	2" Schedule-80 manifold with blow down vent lines and discharge check valves