

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 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 2,500 PSIG
nitrogen unit	manufactured by Generon using high efficiency membrane technology, modules designed to deliver 90-99.99% nitrogen purity continuous at 500 PSIG
nitrogen unit PLC	Allen Bradley PLC controller to provide instant, real-time readout of volume, capacity, purity, and percentage of O ₂ left in the gas stream, target nitrogen purity is 95% or 5% O ₂ left in gas stream (at 1,500 PSI down-hole with methane present, 8.5% of O ₂ 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 (O ₂ 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

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