nublu ENERGY

TURN ANY LOCATION INTO

A FULLY FUNCTIONAL CNG FUELING STATION:

MOBILE. POWERFUL. READY.

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Overview

NuBlu Mobile CNG Fueling System is a 20-ft Connex-based mobile CNG fueling package built around a 125 HP, 2-stage hydraulic booster. Unlike conventional reciprocating compressors, the hydraulic compressor continues to operate as inlet pressure drops, making it ideal for trailer-based fueling, RNG sources, and satellite stations where supply pressure varies.

Designed for unlimited start/stop cycles, simple operation, and high reliability, the package delivers up to 4,000 psig discharge pressure with onboard cascade storage, integrated PLC controls, and a turnkey trailer-to-vehicle fueling path.





FLEXIBILITY AND PERFORMANCE UNMATCHED

Key Features:

- 125 HP, 2-stage hydraulically driven CNG compressor (B100-30, 60 Hz)
- Discharge pressure up to 4,000 psig (300 bar design / 275 bar operating)
- Average flow ~690 SCFM (~4.7 DGE/min) across the full suction range
- Continues compressing as trailer pressure decays — no fixed minimum suction
- Unlimited start / stop cycles with no compressor wear penalty
- Integrated PLC controls, HMI, and instrumentation for unattended operation
- Onboard cascade storage (high / medium pressure banks) with sequenced fill logic
- Coriolis mass flow metering for fueling and custody-style data capture
- Closed-loop glycol cooling with air-cooled heat exchanger
- All gas valving, manifold, and trailer load / unload connections included
- 20-ft ISO container, factory-built and pre-commissioned
- 480V, 3-phase, 60 Hz electric drive — VFD compatible

Why Hydraulic Compression:

Hydraulic CNG compressors use a hydraulic cylinder to push gas through the compression strokes instead of a crankshaft and reciprocating piston. That single design change drives every customer-facing benefit.

- Variable suction tolerance — the unit pulls a trailer down to low residual pressures without stalling
- No bearings or rod packings in the gas path — fewer wear parts, lower maintenance
- Smooth, low-pulsation discharge — easier on downstream piping, drying, and metering
- Quiet operation — well-suited to fleet yards, behind-the-fence sites, and urban locations
- Cold start friendly — short warm-up, fast response to fueling demand

SPECS:

Compressor:	B100-30, 2-stage hydraulic CNG booster (60 Hz)
Drive Power:	125 HP, 480V / 3-phase / 60 Hz, VFD compatible
Suction Pressure Range:	30 to 200+ bar (435 to 2,900+ psig)
Discharge Pressure:	Up to 4,000 psig (300 bar design / 275 bar operating)
Flow Capacity:	400 SCMH at 30 bar suction; 2,640 SCMH at 200 bar suction
Average Flow:	~1,100 SCMH (~690 SCFM, ~4.7 DGE/min) across 200 to 30 bar
Cooling System:	Closed-loop 50/50 EG/H2O glycol with air-cooled heat exchanger
Cascade Storage:	Type IV composite vessels, 270 L modules (HP and MP banks)
Metering:	Coriolis mass flow meter at gas discharge
Controls:	PLC + HMI, gas detection
Enclosure:	20-ft ISO Connex with louvered ventilation
Connections:	Trailer load / unload manifold; 1" ultra-fast-fill quick couplings
Safety:	ASME-stamped sections, PSVs at each stage, emergency shutdown
Configuration:	Single or dual compressor packages available

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RELIABILITY AT ITS CORE

Applications:

- Behind-the-fence fueling for fleet yards and private terminals
- Mobile and temporary CNG fueling stations
- Trailer / virtual pipeline unloading and vehicle dispensing
- Satellite and remote site fueling
- Early fleet deployments where permanent infrastructure is not yet justified
- RNG offload and dispensing at production or interconnect sites
- Bridge fueling during station construction or upgrades

Benefits:

- Faster deployment — pre-engineered, factory-tested 20-ft skid
- Lower infrastructure risk — relocatable as fleet plans evolve
- Higher trailer utilization — pulls trailers down to low residual pressures
- Lower maintenance — fewer wear parts than reciprocating CNG compressors
- Reduced civil and electrical scope — single Connex, single power feed
- Operator-friendly — simple PLC-driven start/stop and fill sequences
- Scalable — deploy single units or multi-unit configurations as demand grows

Configurations:

Available as a single-compressor or dual-compressor package on a 20-ft Connex platform. Multi-unit configurations are deployable in 33-ft and 40-ft container options for higher throughput sites.

Turnkey Capability:

NuBlu Energy delivers the full station, not just the compressor. Standard turnkey scope includes:

- Compressor package(s) — engineered, fabricated, and factory tested
- Cascade storage and dispensing manifold
- Electrical and controls integration with site PLC and HMI fueling lanes
- Site civil, mechanical, and electrical installation
- Commissioning, start-up, and operator training
- Service, maintenance plans, and spare parts support

Ready to Fuel Your Fleet?

Talk to our engineering team about a NuBlu Mobile CNG Fueling System sized for your application. We will scope the package, throughput, and installation plan and get you a budgetary number fast.

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