



EQUIPMENT PROFILE

High Rate Nitrogen Pumper

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FourQuest Energy's direct-fired nitrogen pumper systems are fully integrated, trailer-mounted nitrogen pumping units specifically designed to ensure efficient high flow and high pressure nitrogen delivery. These units provide full on-board control capability with programmable set points for flow rate, pressure, and temperature. They are operated from an insulated control cab mounted within the trailer, with all treatment information available for external download and recording.

Our pumps are also configured to effortlessly perform liquid nitrogen cool downs and hot nitrogen applications, providing significant time savings during maintenance and shutdown operations. Their fully integrated shutdown systems ensure efficient shutdown and disassembly, minimizing required on-site time.

Equipment

FourQuest's direct-fired nitrogen pumps contain a robust, direct-fired diesel heat exchanger, which provides 18.5 million BTU at peak exchange to guarantee high flow delivery across a wide range of temperatures. The system is fully winterized, and its compact design means a small on-site footprint. With numerous safety features, external data collection, and a design that is both easy to operate and support, our direct-fired nitrogen pumps ensure a safe, hassle free and efficient operation.

- > 950 HP engine
- > Interchangeable cold ends
- > 8,000 m³ storage tank
- > 18.5 million BTU heat exchanger
- > Sealless boost pump
- > Fully integrated shutdown system



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Applications

The FourQuest high rate nitrogen pumper is suitable for multiple upstream and downstream applications, including but not limited to:

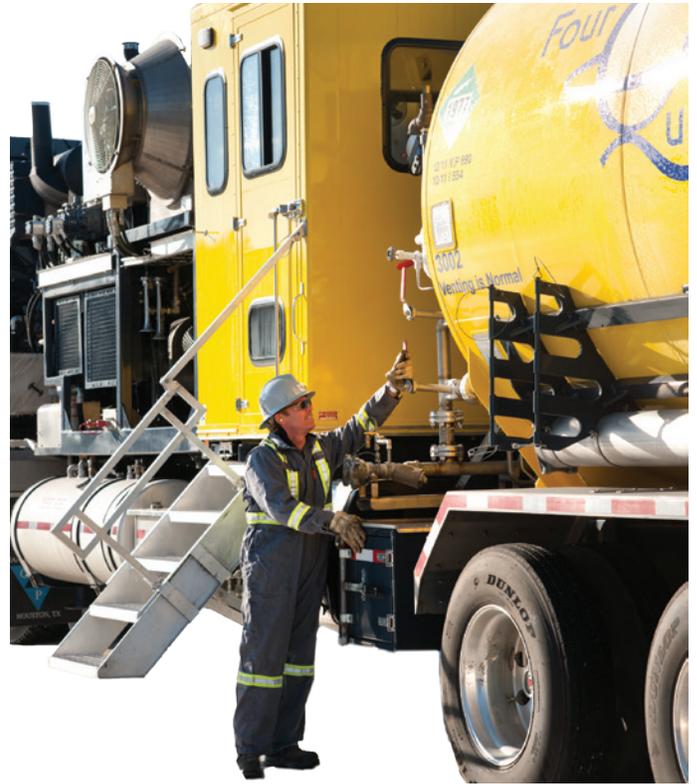
- > Pneumatic testing
- > Accelerated cool downs
- > Pipeline drying and purging
- > Plant commissioning
- > Underbalanced drilling
- > Helium leak testing
- > Well cleanouts
- > Catalyst clean outs
- > Well injection tests
- > Plant nitrogen supply
- > High rate purges
- > Hot nitrogen supply
- > Fracturing operations
- > Process plant heat-ups

Capabilities

Nitrogen delivery: 15 m³ per minute to 350 m³ per minute

Operating temperature: -180°C (-292°F) to 350°C (662°F)

Discharge pressure: 0 to 10000 psi



Skid Footprint

	Length	Width	Height	Weight
Tractor & Trailer	22.72 m (74.5 ft)	2.6 m (8.5 ft)	4.0 m (13 ft)	49,232 kg
Trailer only	16.10 m (52.8 ft)	2.6 m (8.5 ft)	4.0 m (13 ft)	36,706 kg



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