

POWDERFRAC™ X 5.1 Dry FR Hydration Unit



DESCRIPTION

SNF introduces the POWDERFRAC X 5.1 system to the Oil & Gas market. It is a mobile, high-output system using patented technology to speed hydration and delivery of dry, polyacrylamide-based friction reducers (FR). Featuring an open design, the POWDERFRAC X 5.1 eliminates non-productive time and is a safe, reliable, and easy to operate/maintain system for preparing dry FR solutions.

POWDERFRAC X 5.1 units, when used with SNF's FLOJET™ DRP X products, offer a cost-effective, easy to use solution for applying friction reducers in hydraulic fracturing stimulation.

APPLICATION

The POWDERFRAC X 5.1 system achieves rapid hydration of polyacrylamide-based friction reducers. This system is custom engineered to use FLOJET DRP X products and provides high polymer loading rates. The POWDERFRAC X 5.1 system produces consistent polymer solutions for superior friction reduction and proppant carrying characteristics in slickwater, and as an alternative to linear gels.

POWDERFRAC X 5.1 hydration units offer mobility and ease of on-site installation, with a minimal footprint. Consequently, hydrated friction reducer can be produced and pumped within 1- 5 minutes of start-up! When equipped with optional chemical feed pumps for other frac fluid chemicals, POWDERFRAC X 5.1 eliminates the need for a chemical van, thus freeing up valuable space on the well pad.

OPERATION

A single person can operate a POWDERFRAC X 5.1 system. Alternatively, it can be configured to interconnect with a data van's communications system for more centralized monitoring and control.

POWDERFRAC™ X 5.1: Rapid Hydration of Dry Friction Reducers



Optional Chemical Feed Pumps



Control Room Cabin



Dry FR Hopper, Feeder, and PSU

DESIGN PARAMETERS

Dry FR Feed Rate	2 - 60 lb./min.
FR Solution Concentration	1.0 - 2.5 %
FR Solution Feed Pump Rates	2 - 5 bbl./min.
Dry FR Loading	≤ 15 lb. dry FR/1,000 gal. frac fluid**
Liquid Emulsion FR Equivalent Loading	≤ 6 gal. neat emulsion FR/1,000 gal. frac fluid***

** Based on 100 bbl./min. frac fluid flow rate

*** Based on 100 bbl./min. frac fluid flow rate and 30% active emulsion FR

SPECIFICATIONS

Trailer Dimensions	35' L x 8.5' W x 13.5' H
Curb Weight	29,000 lb.
Weight with Loaded Hopper	35,500 lb.
Generator Power	120 kW (150 kVA)
Generator Fuel Tank Capacity	30 gal. Diesel + 7 gal. DEF
On-Board Dry FR Storage	5,000 lb.

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