PURECHEM

INJECTION SKID

PureChem® Services
Fracturing & Completions

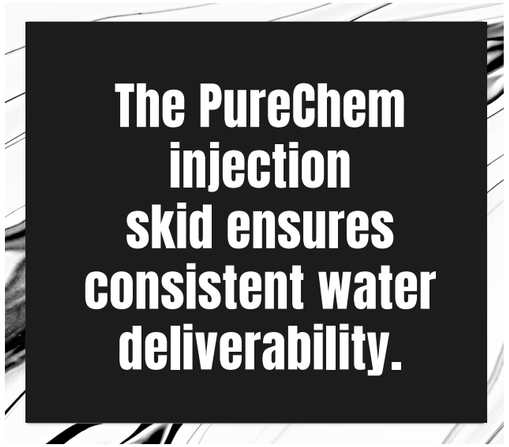
PureChem Injection Skid

Where Engineering, Chemistry and Operations Meet

The PureChem Injection Skid has been designed to address common water transfer issues that hamper keeping up with frac operation rates.

Designed for water and chemistry, it is tailored specifically to improve rate transfer, seamlessly integrating with existing operations and significantly reducing downtime.

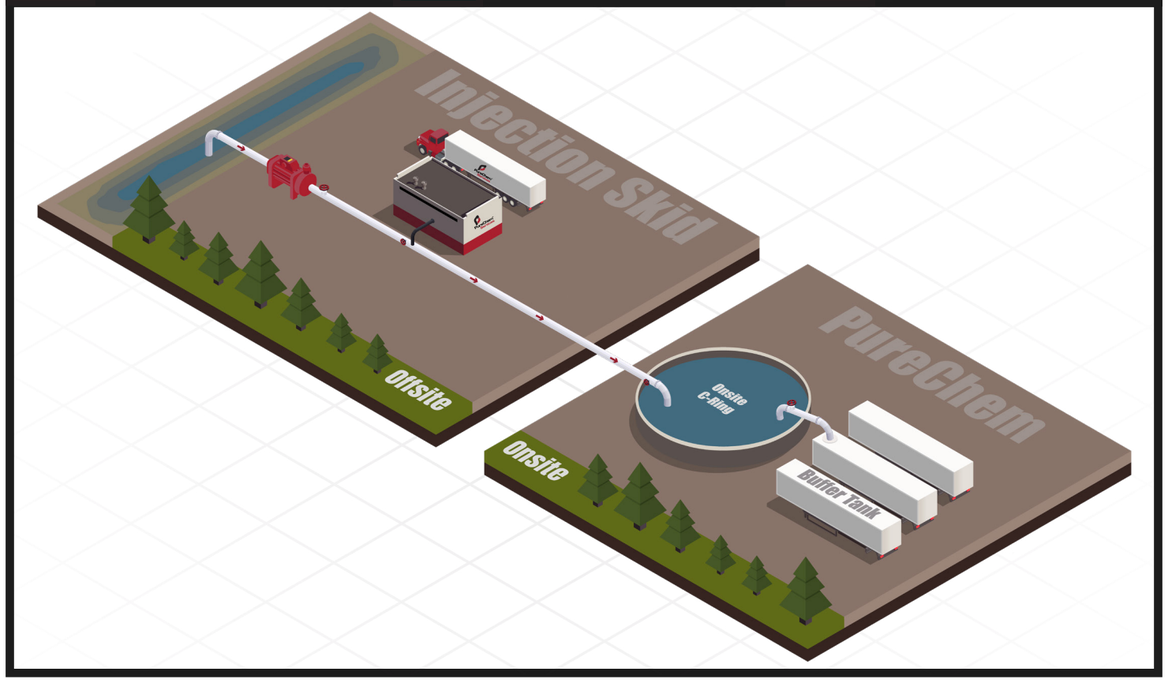
As water shortages, availability, and usage intensify, operators are seeking dependable solutions to enhance efficiency and reduce costs.



Overcome Challenges in Water Transfer and Water Usage Rates

Operators often encounter several bottlenecks with water infrastructure:

01	Slow water transfer rates are not keeping up with frac pump demands	02	Excessive downtime due to water refills with on-site standby costs	03	Inefficiencies in re-using produced water



A Turn-Key Injection Skid Made for Operational Efficiency

The PureChem injection skid, chemical trailer, and chemical injection pump are delivered to site and are easily integrated into your water transfer line. Our friction reducer selection is tailored to your water source and administered to improve flow rates and efficiency.

Case Studies: Improved Water Rates in the Montney

PureChem has worked with multiple operators in the Montney with case studies to show significant rate increases that help improve pump rates for water transfer:

The transfer rate improved from 5.9 to 8.1 m^3/min after adding 0.2 l/m^3 of FR. This solution was implemented on the second bank of wells on a pad, where previously the first bank had incurred 43 hours of non-productive time (NPT) and over $250,000 in standby charges due to water transfer delays. With the introduction of the FR injection, no NPT was observed from water transfer issues, even with high TDS in the produced water.

With an operator in the Montney, FR injection enabled the client to transition from a 12-hour to a 24-hour operation without any realized downtime. Initially, without FR, the transfer rates were 2.5 m^3/min at 105 psi and 3.5 m^3/min at 215 psi. With 0.1 l/m^3 FR injection, rates improved to 5 m^3/min while reducing the pressure to 175 psi.

The PureChem Advantage: Water and Chemistry Experts

Improved Rate Transfers	**Maximize your operational potential with a system designed to increase your transfer rates by 1.5-2x, as evidenced by our case studies.**
Chemistry Tailored Specifically to Your Water	**Our wide selection of frac chemistries can be customized to your specific water source, ensuring optimal performance and addressing any water-related issues.**
Experienced Frac Operations and Chemists	**Leverage our experienced chemists and operations teams, averaging over 15 years in the frac industry.**

Technical Specifications

- Power Requirements: 240V 50 amp and 240V 30 amp single-phase
- Hose Length: customizable based on on-site requirements
- Pressure: ranges from 100-3,000 psi, maintaining a max injection rate of 90 liters/hr
- Piping: 1” NPT Thread connection needed to tie into transfer line
- Chemistry: optimized for water source and friction reduction, with typical loadings based off water transfer rates to site and managed with injection rates accordingly
- Chemical Storage: a robust 4.5 m^3 chemical storage tank

www.purechemservices.com



PURECHEMSERVICES.COM
HEAD OFFICE: (403) 269-2800
14TH FLOOR - 332 6 AVE SW
CALGARY, AB T2P 0B2