

# ECWS FLUID PUMPING EQUIPMENT

## SUPPORT EQUIPMENT

### Why Work With Essential?

We operate one of the largest coil tubing fleets in Canada. Our Masted and Conventional coil tubing units work in conjunction with our Fluid and Nitrogen pumping fleet, which aligns our services in a high demand, high utilization deep well market. Our mission includes the delivery of safe, reliable and cost-effective oil and gas services that reward customers, investors, employees and the community. We believe in approaching our service as a partnership in which our success is inextricably linked to that of our clients. We are dedicated to building a lasting relationship based on trust, reliability, and extraordinary service.

Additional benefits include:

- Industry leading TRIF; we care about the safety of each other and our environment
- 24/7 on-call Engineering support
- Quality control with services provided to our customer
- Real-time job monitoring capability for different types of operations
- Post job and trend analysis following the completion of operations
- +20 years of operating industry leading equipment

### Support Equipment - Chem Van & Trailer

Our chemical vans are outfitted with six fluid injection pumps and six 1,000 L totes. Our chemical trailers have eight fluid injection pumps and ten 1,000 L totes in a large format tractor-trailer unit. The pumps in both units have low and high rate ability, while all chemical totes are temperature controlled for any weather conditions.

Both units provide accurate chemical injection and have a built-in proportional-integral-derivative (PID) system for a feedback control system to keep required chemical loading consistent under changing pump rates. The fluid pump data connection allows our chemical vans to be automatically and remotely controlled and operated with the ability for manual override.

There is a laboratory area for measurements including: viscosity, salinity, pH, fluid temperature and more, to provide up to date fluid rheology. Our units are also setup with a data connection to coil to provide other units with real-time chemical injection rates and totals.

#### Features and Benefits:

- ✓ Accurate chemical injection to 0.05 L/min
- ✓ Up to ten heated and cooled 1,000 L tote storage
- ✓ Lab area including automated viscometer
- ✓ Data recording system with connection to pumps and coil
- ✓ 15,000 psi injection system for delivering chemical directly into wellbore and BOP pressure test
- ✓ PID system allowing remote and automated operation with feedback control system to keep required chemical loadings



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