

ECWS FLUID PUMPING EQUIPMENT

NITROGEN PUMPERS

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

Nitrogen Pumping Units

Nitrogen units pump inert nitrogen gas into the wellbore for stimulation or work-over operations and to purge the coil tubing of fluids once the coil tubing work has been completed. We also provide stand-alone nitrogen work including kick arounds, purges, bursts, discs and pipeline purging. ECWS maintains a fleet of nitrogen equipment capable of supporting all coil operations. We have the pumps and product transportation to make the job logistics streamlined for any operator. In the event additional nitrogen is required, nitrogen bulker and storage units are available.

Nitrogen Pumping Specifications

Mounted N2 Tanks:	Hold 7,000 scm of useable nitrogen gas
Pump Rates:	10 scm – 85 scm per minute
Pump Pressures:	0 to 10,000 psi (0 to 70 MPa)
Pump Temperature:	-5 °C to 70 °C (23 °F to 158 °F)

Features and Benefits:

- ✓ Glycol, hydraulic and exhaust vaporization systems
- ✓ Safety slings, valves and fittings to accommodate
- ✓ 10 – 85 scm/min N2 pump rates
- ✓ Approximately 7,000 scm product storage
- ✓ 24,500 scm bulker transportation max capacity
- ✓ 10,000 psi pressure rating
- ✓ N2 pump-to-coil data networking



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