

Liquid Additive Skid (Automatic)

Streamlined chemical additive system

APPLICATIONS

Land and offshore drilling operations

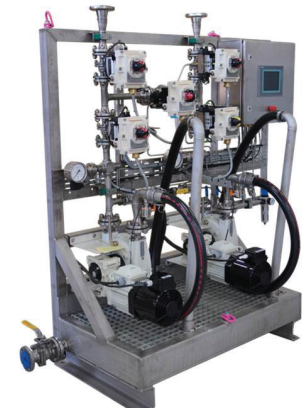
ADVANTAGES

- Compact footprint, skid-mounted design
- Two injection pumps controlled with variable frequency drive (VFD)
- Automatic dosing
- Robust construction
- Fewer moving parts and reduced maintenance
- Local control panel (LCP) with LCD touchscreen
- Certification for offshore installation
- Filling lance with quick-lock mechanism
- Instrumentation package
- Manual flushing valves
- Integrated spill pan and drain outlets

The liquid additive skid streamlines the process of adding chemicals into oil- and water-based mud systems by providing a single point of contact for liquid chemical feeding and injection jobs. It enables accurate, automatic, high-speed dosing of liquid chemicals into the mud mixing system for increased job flexibility and ease of use.

The operator controls and monitors operations using a touchscreen mounted on the skid's LCP. Operating parameters are set using the LCD touchscreen mounted on the skid LCP. An information area on the LCP displays real-time system status whenever the system is running.

The liquid additive skid filling lances are connected to a flexible hose using a quick-connect valve for fast and easy changes. The unit is driven by two VFD-controlled hose injection pumps, each with a pumping capacity of up to 449 galUS/h [1,700 L/h]. A flow switch and a pressure switch on each of the chemical lines prevent high pressure during discharge operations of the dosing pumps if running against closed valves.



Specifications

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|----------------------|---|
| Area classification | Safe zone |
| Dry weight | 772 lbm [350 kg] |
| System control | Local and remote |
| System type | Pneumatic electric |
| System drive | VFD |
| Pump capacity (each) | 0.75 to 7.5 galUS/min [0.17 to 1.7 m ³ /h] |

Standard Scope of Supply

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|---|
| Skid-mounted unit complete with |
| Two VFD-controlled hose pumps |
| Two filling lances with quick-connect mechanism |
| Remote-operated valves and remote control |
| LCP panel with LCD touchscreen |
| Standard project documentation |
| Frequency control cabinet |

Options

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| Barrel holder |
| Automatic flushing system |
| Additional certification (e.g., Zone II or CE) |
| NORSOK documentation |