

## SLICKFILL

SLICKFILL is an automated oil fill station designed from the ground up to provide rapid, efficient and reliable oil filling solution for downhole drilling tools. It is designed specifically to remove the uncertainties associated with manual or human controlled oil fill systems and provide reliable, repeatable and accountable performance on a day to day basis.

SLICKFILL incorporates a high efficiency oil-less rocking piston vacuum pump coupled with a rugged seal free magnetically coupled circulation pump. It also incorporates built in oil heating and recirculation capabilities. All functions are automated using high vacuum solenoid valves and rugged relays. It also is equipped with state of the art digital vacuum and pressure gauges to measure the vacuum level and the level of the oil in the system. The oil chamber can hold up to a gallon of oil at any time and its temperature and level are monitored continuously.

SLICKFILL is built around a touchscreen computer interface and has no valves, buttons, levers or mechanical gauges. All functions are controllable through the SLICKFILL Software Interface and the entire system is designed to operate in a stand alone mode. Typical initialization time is approximately 30 minutes (once a day to heat and de-aerate the oil) and an oil fill can be performed in about 5 minutes.

SLICKFILL is capable of filling downhole tools in both single port or dual port modes. With built in Quick Connect fittings, adapting to multiple tool types can be done in seconds.

SLICKFILL also provides advanced data tracking capability, including automated logging and reporting of technician name, product serial number, oil temperature, vacuum level, oil used and is flexible enough to allow reports to be sent via email or SMS text messages or saved to a USB flash drive.

SLICKFILL provides immediate and real benefit to customers by reducing costs associated with operator error and will enable users to deploy their personnel effectively. In a climate where accountability and costs are critical, SLICKFILL is a indispensable piece of support equipment for any company providing MWD services.

## FEATURES AND BENEFITS

- Fully Automated Oil Fill System
- High Efficiency Oil Less Rocking Piston Vacuum Pump
- Seal Free Circulation Pump
- High Vacuum Solenoid Valves
- Built in Oil Heater
- Vacuum, Oil Volume and Oil Temperature gauges
- Full Touchscreen Control
- Single Port and Dual Port Fill Capability
- Rapid Initialization, 30 Minutes Warmup and Deaeration time
- Fast Fill, approximately 5 minutes for most applications

Specifications	
Physical Size	17" Wide x 15" Deep x 23" Tall (432mm Wide x 380 mm Deep, 583 mm Tall)
Weight	~60 lbs (~27Kg)
Power Requirements	110-120VAC 60HZ , (220-240V 50HZ units available upon request)
Oil Volume	~1.36 Gallons (Chamber Size) , ~0.75 Gallons during operation
Oil Viscosity	32 Centistoke to 320 Centistoke (ISO 32 to 320)
Heater	125W, other wattages available upon request
Oil Temperature	30° to 50°C (86° to 122°F)
Vacuum Capability	More than 29" HG Gauge (Less than 0.45 psi Absolute)
Mounting	Standard Model is designed for Table Top Operation Rack Mounted or Cart Mounted Versions available upon request

