

DRILLING OPTIMISATION

AMC ULW SRU™ featuring AMC MUD AID™

The end-to-end, remote solution for mud management and solids control



As part of IMDEX's Drilling Optimisation solution, the AMC MUD AID™ and AMC Ultra-light Solids Removal Unit™ (ULW SRU™) converge to optimise rate of penetration, core recovery and meters per bit, utilising the latest solids control, fluid analysis and remote tracking technology – all in an ultra light-weight design.

AMC has had over 30 years experience establishing itself as one of the world's leading brands for drilling fluids and equipment. The AMC MUD AID™ and award-winning solids removal technology (SRU) sit at the forefront of our Drilling Optimisation solution. With the combination of these technologies, operations can benefit from end-to-end drilling fluid management without the need for contractors on site.

With the AMC ULW SRU™ featuring AMC MUD AID™, fluid properties are monitored, maintained and adjusted to optimise rate of penetration and meters per bit. By tracking and optimising rheological properties, this system is able to optimise solids removal, minimise wear and tear on rigs, bits and ancillary equipment, minimise formation damage and ingress of fines into the core for improved core analysis.

Whether connected via Wi-Fi, LTE or satellite, information is stored via the award-winning cloud-based hub IMDEXHUB-IQ™, providing clients real-time secure access to current and historical information between the field, the office and a drilling fluid specialist. The system also has the capability to transfer data from IMDEXHUB-IQ™ enabled REFLEX equipment for real-time chain of custody.

Key benefits

- **Make decisions instantly** – Having real-time access to information provides accountability on drilling fluid performance and ensures decisions can be made instantly
- **Increase productivity** – Solids removal with 24/7 monitoring of the mud system continually optimises and intercepts potential issues that affect rate of penetration
- **Improve core recovery** – Minimise formation damage and ingress of fines into the core for improved sample analysis
- **Control wear and tear and torque** – Drilling fluid is less abrasive and torque is able to be monitored, extending rig, bit and ancillary equipment life
- **Reduce environmental impact and footprint** – Reduces site footprint, minimises site re-mediation and environmental management costs
- **Reduce mud and water consumption** – Reduces water consumption, excessive mud usage and cartage costs
- **Safety** – Reduces risks associated with personnel/ contractors on site, reduce manual handling and mixing
- **Real-time chain of custody** - Improves connectivity for IMDEXHUB-IQ™ enabled REFLEX equipment.

Maximize efficiency and minimize impact with an even smaller SRU design

The AMC ULW SRU™ featuring AMC MUD AID™ is a highly versatile drilling fluid recycling unit, designed for use in compact spaces or in remote locations. Its size and shape allows for easy transport via helicopter, light vehicle, manually or in modular sections.

By removing solids as small as 4 – 7 microns and keeping drilling fluids in good rheological condition, this unit is essential to maintaining drilling productivity and can reduce the volume of residual mud by up to 75%. Solids are condensed and transformed into a semi-dry solids cake, minimising associated disposal costs.

Results have shown that compared with traditional fluid sumps, the unit can reduce water consumption by up to 90% and mud consumption by up to 55%. In addition, it reduces associated costs such as surface sumps, additional pumping systems, transfer and disposal of bulk mud volumes. The unit can also reduce the wear and tear on rig components, minimise formation damage, reduce rig maintenance and breakdowns.

Intercept drilling fluid issues in real-time

AMC MUD AID™ is designed to monitor drilling fluid 24/7 to ensure optimal efficiency and to reduce any potential delays to the operation. Set up includes pairing to site specific conditions, setting parameters and automating alerts to intercept any potential issues. An engineer will remotely provide continuous monitoring and recommendations, so drillers can rectify any variances in the system – providing drillers with complete peace of mind.

Immediate access to the information you need wherever you are

Mud properties and trends can be viewed through IMDEXHUB-IQ™ as well as on the unit display, providing instant, access to real-time data and historical information. IMDEX's award winning, secure, cloud based web portal IMDEXHUB-IQ™ provides complete visibility across the operation from any internet connection, anywhere, any time.

Further information

For more information please go to our website amcmud.com or contact your nearest AMC office.

Our equipment is available for sale or rental and may be subject to availability in your country. Manufactured under a quality system certified as complying with ISO 9001 by an accredited certification body. Results may vary due to fluid properties and solids contents, please consult your nearest AMC technical specialist to achieve optimum performance.



TECHNICAL SPECIFICATIONS

Compact, portable design - 185cm (73") L x 91cm (36") W x 140cm (55") H. Total weight of 933kg (2,060lb)

Size and shape allows for easy transport via helicopter, light vehicle, manually or in modular sections

24/7 tracking of drilling fluid parameters (Ability to be programmed to test from every 30 mins - 12 hrs). Including: 600rpm, 300rpm, 6rpm, 3rpm, plastic viscosity, yield point, gels, mud weight, pH, chlorides, potassium, calcium, density, solids content, solids removal efficiency and specific ion selectors on request

Programmed monitoring of individual mud programs, to prevent future issues. Trend tables for collected data. Email alerts when parameters are breached Remote monitoring and reporting by a qualified drilling fluid engineer

Integration with IMDEXHUB-IQ™, providing access to real-time data and historical information for decision makers. Stores up to 60 days of drilling fluids tests

Wi-Fi, 3G/4G, LTE with satellite fail-over connectivity

Self-powered through SRU generator

Access data on site via any VNC application (from PC, cellphone, or tablet), or output stored data via USB

200mm stainless steel centrifugal decanter generates a G-force of 2,164G at 5,300rpm removing solids as small as 4 – 7 microns

Capable of processing up to 100L/min depending on conditions, adjustable flow by manual valve

Tank capacity includes unique pond of 750L (approx.)

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