

AMC Ultra Lightweight Solids Removal Unit™

The award-winning AMC Solids Removal Technology in an ultra-lightweight, compact, versatile design.



The AMC Ultra Lightweight Solids Removal Unit™ (AMC ULW SRU™) is a highly versatile drilling fluid recycling unit, designed for use in compact spaces or in remote locations. The unit's closed-loop system decreases the volume of water and mud, reducing operational costs and creating a safer work environment. Its size and shape allows for easy transport via helicopter, light vehicle, manually or in modular sections.

How Does It Work?

AMC ULW SRU™ circulates drilling fluid from the drill collar to the centrifuge to separate solids from the mud slurry. The solids are then discharged via the unit's waste chute. After processing, cleaned drilling fluid flows into a storage tank. The fluid is returned to the mixing tank before being reused.

The AMC ULW SRU™ is very quick and simple to assemble onsite.

Reducing Mud and Water Consumption

In operations where water management presents an operational challenge and has high associated costs, the closed-loop system of the AMC ULW SRU™ allows the recycling of water and fluids, and eliminates the continual need to cart water for drilling operations.

The AMC ULW SRU™ can reduce water consumption by up to 90% and mud chemical consumption by up to 55%. In addition, it reduces associated costs such as surface sumps, additional pumping systems, and transfer and disposal of bulk mud volumes.

Reducing Water and Mud Disposal Costs

The 200mm stainless steel decanter centrifuge can remove solids as small as 4 – 7 microns from drilling fluids, keeping drilling fluids in good rheological condition.

The AMC ULW SRU™ can reduce the volume of residual mud by up to 75%. Solids are condensed and transformed into a semi-dry solids cake, which minimises the costs associated with disposal.

Key Benefits

- Improves on-site health and safety by reducing manual handling and excessive mixing
- Reduces water consumption mud usage and cartage costs
- Easy to transport
- Reduces downtime
- Eliminates the cost of digging and rehabilitating sumps
- Increase productivity and KPIs
- Minimises site re-mediation and environmental management costs
- Reduces site footprint
- Facilitates access to environmentally sensitive or remote drill sites.

Improving Efficiency and Productivity

The closed-loop system of the AMC ULW SRU™ eliminates the need for make-up water, allowing drilling to continue despite interruptions or diversions in water supply.

The use of clean drilling fluids is essential for drilling productivity. The AMC ULW SRU™ maintains the properties of the fluids in optimum conditions, which reduces the wear and tear on rig components, optimises ROP, minimises formation damage, minimises fluid costs and reduces rig maintenance and breakdowns.

By maintaining clean, non-abrasive mud, the AMC ULW SRU™ is able to increase "bit on bottom" time, increase ROP significantly by removal of solids, reduce stuck pipe, and reduce wear and tear on drill components.

Further Information

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

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.

WEIGHTS AND DIMENSIONS

DIMENSION	SIZE
Length	185cm (73")
Width	91cm (36")
Height	140cm (55")
Weight	870kg (1,920lb)

TECHNICAL SPECIFICATIONS

ITEM	DESCRIPTION
Centrifuge	200mm stainless steel centrifugal decanter generates a G-force of 2,164G at 5,300rpm
Processing capacity	40 – 100L / min, adjustable flow by manual valve
Pump (1) dirty mud	1 hp submersible pump to move the mud from the well to the centrifuge, incorporating a level sensor for On - Off activation
Pump (2) treated mud	1 hp pump to return treated sludge to the mixer ponds of the drilling machine, incorporating a level sensor for On - Off activation
Motor	Three-phase 400v motor, electronically controlled by VFD (Variable Frequency Drive)
Tank capacity	Unique pond of 750L (approx.)

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