Solids Control

DRILLING MUD COOLER

Xi'an, China

energy API Q1 Registered Manufacturer

Xi'an Tianrui Petroleum Machinery Equipment Co., Ltd

SLURRY COOLING SYSTEM

Product Description

- Mud cooling system, also referred to as the drilling fluid cooling system, is designed to lower the temperature of the drilling fluid.

- The design process of TR Solids Control meets the requirements for cooling high-temperature mud, achieving a temperature reduction of 20–40°C.

Drilling Mud Cooler

Drilling Mud Cooler

- This effectively extends the service life of drill bits and drill rods, enhances drilling efficiency, and significantly reduces operational risks caused by excessively high mud temperatures.

- The mud cooling systems currently available on the market generally adopt air cooling, water cooling, or a combination of both.

- Taking into account the actual conditions at the drilling site, our company provides custom-designed, energy-efficient cooling systems developed in-house. These systems are equipped with automatic controls for higher operational efficiency.

TECHNICAL ADVANTAGES

High cooling efficiency and rapid temperature reduction

- with support for multi-stage cooling tailored to site conditions.
- Our standard units achieve a temperature reduction of 20–40°C.
- The use of finned tubes can improve heat exchange efficiency by 10%.

Intelligent automatic control system

- that automatically switches to evaporative cooling mode when dry mode is insufficient.

Compact structure

- high heat transfer efficiency, low operating costs, and ease of installation and maintenance.

Special drainage design

- to prevent freezing and scaling.

Closed-loop cooling mode

- that significantly reduces water evaporation and fume emissions.

Large capacity in a compact design

- trequiring minimal footprint.

Drilling Mud Cooler

MUD COOLING
SYSTEM TECHNICAL PARAMETERS

Model	Processing Capacity	Cooling rate	Design Pressure	Footprint	Notes
TRLQ-150	≤150m³/h	≤30℃	1.6Mp	15㎡	wet bulb temperature 28℃

Scope of application for the mud cooling system

Currently, it is widely used in closed-loop cooling systems for industrial circulating media, such as the petroleum and chemical industries, new energy industries, pharmaceutical and biotechnology industries, and power industries.

This structure is particularly suitable for arid and water-deficient areas.

It is also used for mud cooling in oilfield drilling, natural gas hydrate drilling, drilling in frozen soil areas, oil and gas drilling, geothermal drilling, etc.

Xi'an Tianrui Petroleum Machinery Equipment Co., Ltd., established in 2010, is a modern manufacturer of solids control equipment certified to both API Q1 and ISO 9001 standards.

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