

Ultrasonic Cleaning System

CLEANER, FASTER, SAFER, GREENER

OVERVIEW

Halliburton's Ultrasonic System is an innovative cleaning technology used for enhanced cleaning of hydrocarbon processing equipment and tools that are contaminated or corroded. Employing a combination of ultrasonic technology, chemicals and heat provide superior results while consuming less energy and water and significantly reducing waste. The ultrasonic cleaning unit is mobile and can be easily assembled in a refinery plant wash bay or onboard an offshore installation with fully automated system functions; chemical fluid levels, skimming, filtration, heating and sonic-wave generation. Ultrasonic Transducers

strategically mounted within the cleaning bath produce cyclic waves of rarefaction-compression throughout the liquid. These waves create microscopic cavitation bubbles that form and implode on all immersed equipment, creating small and forceful micro jets of liquid that remove the contaminant from all exposed surfaces regardless of design complexity. The versatility of the ultrasonic system allows multiple pieces of equipment to be cleaned simultaneously and is designed to insure no erosion or damage affects the equipment structure.

APPLICATIONS

- Cleaning of all mechanical equipment
- Operating temperature up to 70°C, ultrasonic frequency at 25 kHz
- Working volume: 7,5m x 1.48m x 1.45m

FEATURES

- Cleans combined hydrocarbon residue, salts, corrosion, polymers, NORM etc
- Submersion technology allows the sound wave cleaning to reach and remove contamination from those hidden areas (interspatial) that impossible for other methods
- Reduce overall cleaning costs
- 80% reduction on cleaning water requirements and waste water

BENEFITS

- Mobil set up, suitable for offshore with DNV certification
- Fully automated system functions: chemical fluid levels, skimming, filtration, heating and sonic-wave generation
- Several baskets for different cleaning applications

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