

“Brass of Gold”

Straight Tube Heat Exchanger



THE CHALLENGE

Brass finned exchangers are very difficult to clean due to the binding agent collecting in small fins, trapping in the foulant. Conventional high pressure water blasting increases the risk of tube and fin damage.

We were required to remove the hydrocarbon fouling from the shell side while not damaging the expensive brass finned tubes.

BEFORE: HEAT EXCHANGER SPECIFICATIONS

Type of Asset: Heat Exchanger

Material: Brass

Size: 28 feet long, 58"

Arrival Weight: 38,000 lbs

Design: Straight Tube

Fouling / Process: Tube- Cooling Water / Shell- Hydrocarbon

of Tubes: 1740 tubes

Outer Tube Dimension: 0.75"

THE SOLUTION

First, we tested and verified material composition to ensure compatibility with our process and solvent. The exchanger was lowered on to our fully supported and controlled roller system in our cleaning chamber and submerged in our safe proprietary solvent.

In a short 8 hours, the exchanger was removed for inspection.

AFTER: BENEFITS & RESULTS

Fouling Removed: 1,500 lbs

Time Cleaned: 8 hours

Est. Time Saved: 48 man hours

Return Weight: 36,500 lbs

Inspection Standard: Process

No water consumed

