Emerging Trends in Heat Exchanger Cleaning Improves Safety and Reduces Wastewater
Who We Are

For over 90 years Conco has designed and developed heat exchanger tube cleaners that have set standards for many industries including:

- Power Generation
- Chemical, Petrochemical and Refineries
- Food and Drug
- Pulp and Paper
- Primary Metals
- Manufacturing
Who We Are

Our tube cleaning technology uses custom sized pigs, drill bits and brushes, and safe low pressure water to thoroughly clean heat exchangers of all shapes and sizes while:

• Maximizing safety
• Minimizing impact to the environment
Current Cleaning Standard

In the Chemical Processing Industry, cleaning has long been performed utilizing high pressure water at up to 40,000 PSI.
Current Cleaning Standard

While popular, waterblasting poses a serious safety hazard, including risk of death.

It also creates a large volume of wastewater which must be contained and treated. A problem for both the environment and your bottom line.
Current Cleaning Standard

While water blasting at high pressures may be necessary for certain applications, it is not the ideal cleaning method for all applications.
Current Cleaning Standard

It is like a tool on a job...

The perfect tool for a particular job... but is not the only tool in your toolbox.
Low Pressure Mechanical Tube Cleaning

You Need Options
Emerging Trends

An emerging trend already considered to be a best practice in some of the world’s most renowned industrial plants focuses on mechanical tube cleaners (or pigs) propelled by low pressure water to remove deposits.
Emerging Trends

Other methods gaining popularity include rotary cleaning where a bit or brush is spun on a rigid or flexible shaft with a low pressure water flush to remove deposits.
Emerging Trends

While both the shooting and the rotary tube cleaning methods increase safety by utilizing low pressure water, they also use far less water over the course of the cleaning operation.

With less water to contain and treat, these low pressure methods are better for the environment and for your bottom line.
Options for Shell and Tube
Low Pressure Mechanical Tube Cleaning
Advantages

- Safety
- Environmental
- Performance
- Speed

Low Pressure Mechanical Tube Cleaning
Safety

<600 PSI v. 10,000-40,000 PSI

Low Pressure Reduces Risk
Smaller Safety Zone
Clean in Place
Smaller Crew Size
Safety

Low Pressure Mechanical Tube Cleaning
Environmental

Use Less Water

8,750 gallons vs. 193,500 gallons

Based on 5,000 tube exchanger using high-pressure water blasting
Performance

End to End & Around the Bend

Probe Ready – Reduce Re-cleaning
Less Frequent Cleanings
Efficient Heat Transfer
Performance

Low Pressure Mechanical Tube Cleaning

HPW

Conco
Speed

Takes Less Time

70% less – hours vs shifts
On-line and Producing Faster
Smaller Safety Zone, Less Unit Congestion
Reduce Time Moving to Pad
Low Pressure Mechanical Tube Cleaning

Speed

Job Duration (Days)

- Conco: 5 days
- HPW: 20 days
Low Pressure Mechanical Tube Cleaning

Safer
Environmentally Friendly
Effective
Faster
Questions?

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