

APPLICATIONS

PUMPS



Photo courtesy of Conco Systems, Inc.

OPERATION:

A portable pressure washer with a specially designed tube cleaner were united for the cleaning of condenser and heat exchanger tubes. Over a period of time scale builds up and acid pockets form, causing pitting. This process, known as biofouling, increasingly reduces the efficiency of the tubes. Recommended cleaning is at least twice a year to minimize pitting.

In this application, high pressure water forces a special tube cleaner through these deposits, cleaning the inside diameter of the condenser and heat exchanger tubes. Removing the pit peaks exposes the pit and permits flushing out of the acidic deposits, retarding the pitting action. This special cleaning process increases the efficiency of the condenser, as well as the life of the tube. This high pressure method is faster and more effective in removing deposits than brushes. One four-man crew is able to clean 7,000 tubes in a single 12 hour shift.

CONDENSER AND HEAT EXCHANGER TUBE CLEANING

File No. 218

Section 6

PROBLEM:

To establish an effective method for the removal of biofouling in condenser and heat exchanger tubes.

SOLUTION:

Use high pressure water to force a specially designed tube cleaner through the condenser and heat exchanger tubes.

SPECIFICATIONS:

CAT PUMPS Model	3535
Pressure	200-300 PSI
Flow	25-35 GPM
Temperature	Ambient
Fluid	Water
Duty Cycle	Continuous
Drive	10 H.P. Electric

BENEFITS:

- Efficient...cleans 15,000 condenser tubes within a 24 hour period.
- Extended life...maintains system cleanliness for increased tube life and condenser efficiency.
- Easy to use...portable, flexible cleaning system simplifies process.
- Safe...using low water pressure is safer than using hazardous compressed air.

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Products described hereon are covered by one or more of the following U.S. patents 3558244, 3652188, 3809508, 3920356, 3930756 and 5035580

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