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Damaged air cooler fins – 2020/2021

Type: galvanic corrosion

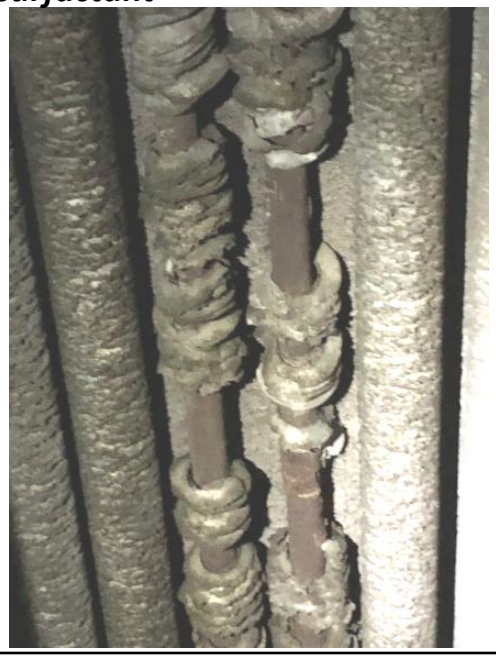
Location: starts in the contact area between fin and tube

Damage:

fins will start to separate from tube and look like rings, causing the tube to be exposed, then fins will start deteriorate

Cause:

Usage of "fin-soap-foam" high-pH (>9) soap or foam, or surfactant



Type: pitting corrosion

Location: start from the bottom of the fin through the entire fin surface

Damage:

fins get thin and fragile, and gradually get worse

Cause:

Usage of low quality fire water, chlorides, low pH (<6)

Carbonated fins ("hardness")

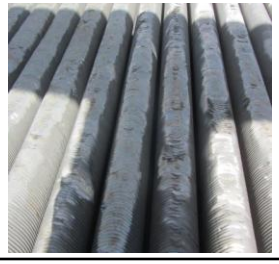
→ ***Usage of "hard" fire water***

Thermal shock (deformation)

→ ***Applying cold fire water on hot tubes***

Bent fins

→ ***Usage of high pressure water blast***



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SENTRO™ On-Line Dry Chemical Cleaning :

NO Damage to fins

Steel fins

BEFORE Cleaning

AFTER Cleaning

Aluminum fins