

Overview

Copper heat-exchange coils, used in Marley Fluid Coolers provide many distinct advantages.

Primary Benefits

- Half the corrosion rate of carbon steel in closed systems, translates into potentially longer product life
- Seven times greater thermal conductivity than carbon steel, allows for smaller equipment size and less equipment weight
- Easier system circuit changes or repairs, with no welding required
- Greener product

Benefit Detail

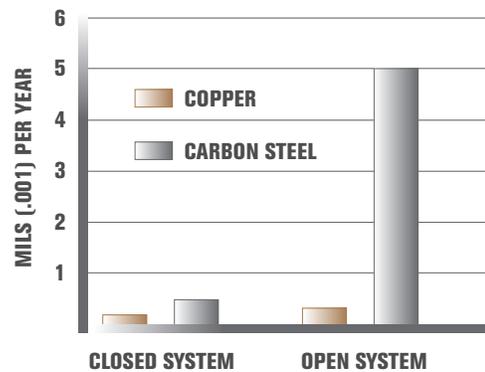
Longer Equipment Life:

- Copper provides superior corrosion resistance, extending equipment life
- Copper maintains system efficiency better with time
- Coils can be drained as often as necessary

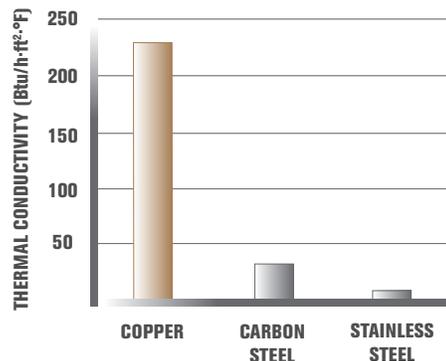
Greater Thermal Efficiency:

- Thermal conductivity of copper is more than seven times that of carbon steel, enhancing heat transfer
- Smaller equipment size
- Lower equipment weight

more 



Adapted from *Standards for Corrosion Rates*, Bennett P. Boffardi, Ph.D., FNACE



Benefit Detail

Easier to work with:

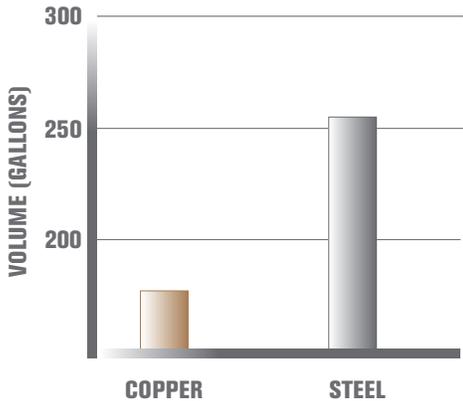
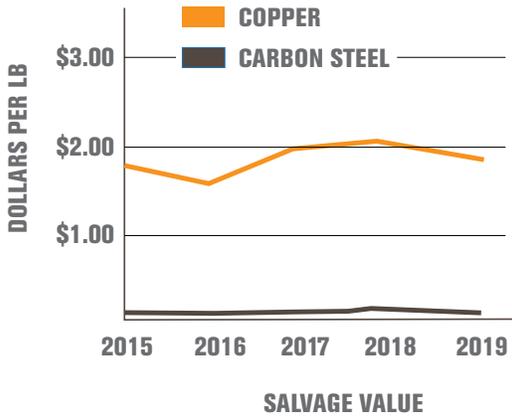
- Copper can be brazed, unlike steel which has to be welded
- Copper coils can easily be circuited to separate multiple loads within the same unit if desired

Green material:

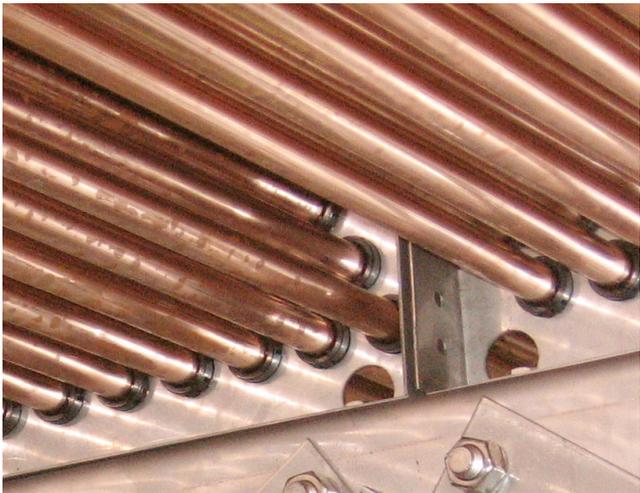
- Recyclable at the end of its useful life, potentially resulting in a higher salvage value per pound than steel
- Copper is naturally bacteriostatic (inhibits bacteria growth)
- Less process fluids required because less heat transfer surface is needed for the same amount of cooling

History

- Since 1922, we have provided exceptional quality equipment and service to HVAC, process cooling, industrial, and refrigeration markets. For the best value in evaporative cooling equipment, insist on Marley heat transfer coils made from copper.



Internal coil volume typical of a 100 ton forced-draft fluid cooler



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