Cost-effective heat exchanger contamination countermeasures

SUSTAINABLE DEVELOPMENT GOALS

Automatic ball-type heat exchanger cleaning equipment

The flow of cooling water is used to automate the physical cleaning process by periodically passing sponge balls through the narrow tubes of shell-and-tube heat exchangers.

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Automatic ball-type heat exchanger cleaning equipment

Three main features

1 Reliable Effectiveness

Repeated wiping with sponge balls selects a reliable effect.

2 Automatic cleaning

Automatically cleans in conjunction with the operation of the equipment in question

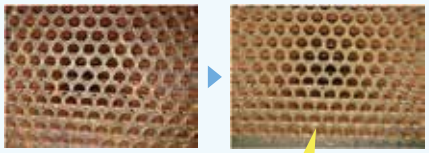
3 Energy saving & cost reduction

Minimizes energy consumption, reduces maintenance costs, and extends the life of equipment.

Certain cleaning effects

After one year of installation, a fiberscope was used to check the inside of all heat-transfer tubes, and the surface of the copper tubes was clean and visible.

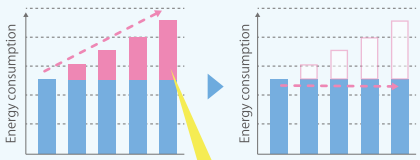
At installed | One year after installation



Tube cleaning was determined to be unnecessary

Energy-saving effect

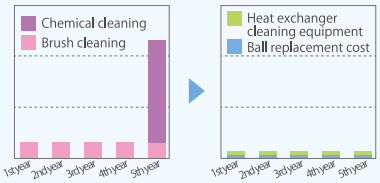
In the case of a refrigerator, just 0.6 mm of dirt adhering to a heat-transfer tube reduces its efficiency to 80% or less, resulting in an energy loss of 20% or more.



Wasted energy due to dirt

Reduction of maintenance cost

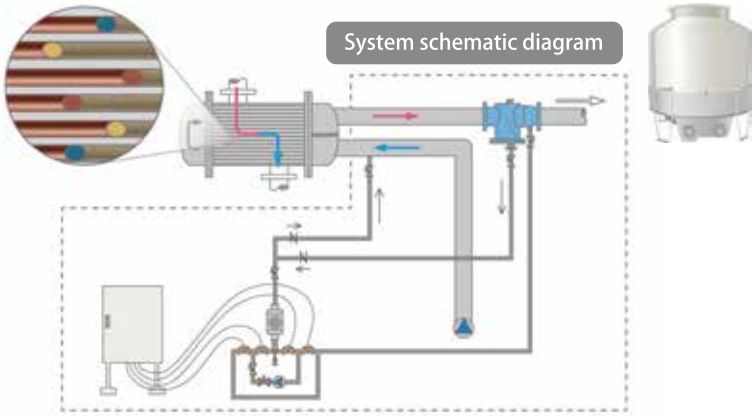
Costly cleaning is necessary for attached stains. Especially when scale components are attached, expensive cleaning is required to remove them.



(Example) In a case where soft stains are removed by brush cleaning every year and scale is removed by chemical cleaning in a 5-year cycle

We have installed more than 400 refrigeration units in Japan and more than 50 units overseas.

System schematic diagram



For automobile-related compressors | For automobile-related refrigeration equipment | Clean tube | Scale-covered tubes

Because the parts of the main unit part can be assembled in various combinations

No restrictions on installation location

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