

Non-chemical cleaning for Cooling Tower and Chiller Equipment

# CM Fiber Cassette

CM Fiber improves the environment  
inside the cooling tower and chiller equipment



**Easy to  
Install**

**High  
efficiency  
operation**

**Reduce  
chemical  
management**

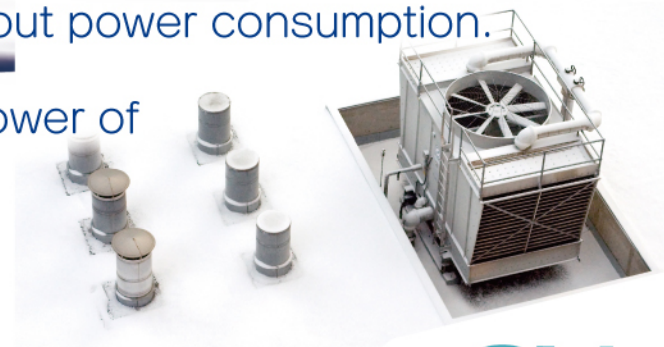
**Cost  
savings**

**Remove  
malodor**

CM Fiber (CMFC) helps to remove scale and rust inside cooling tower and chiller, without power consumption.

At the same time, it has the power of anti-bacteria against algae,

Legionella bacteria and etc.



**OGINO SEISAKUSHO CO.,LTD.**





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## CM Fiber (CMF) Cassette



### FEATURE

By improving the environment inside cooling tower and chiller, CM Fiber helps on cost saving, higher efficiency, and longer durability.

- CM Fiber Cassette (CMFC) helps to remove scale and rust inside cooling tower and chiller without power required. At the same time, it has the power of anti-bacteria against algae, Legionella bacteria and etc.
- Prevent failure caused by high water pressure and maintain smooth operation.
- Recommended to install after cleaning of equipment, however installation without stopping equipment is possible.
- Fiber absorbs foreign material and require washing, however reusable after washing.

## Benefit of Installation

### Easy Installation and release maintenance

Install CM Fiber Cassette by just haging it inside cooling tower or chiller tank. No works required. Furthermore, it can reduce maintenace effort significantly.

### High Efficiency and Energy Saving

Scale and slime that accumulated inside cooling tower, chiller, heat exchanger and piping bring heavy load to heat exchange. By removing them, the load of fan and pump, as well as pump pressure will be released.

### Release from chemical management

CM Fiber Cassette is a non-chemical product. It help to reduce the use of chemical agent for water quality maintenance. Chemical agent is used to maintain water quality, however it is not environmental friendly and cause issue of water drainage.

### Cost Saving

Not only the cost of chemical agent, overall cost will be reduced as it helps to reduce the cleaning and maintenance cost, as well as manpower.

### Installation

Measure the constant water volume inside cooling tower or chiller tank.  
1g of CM Fiber Cassete for 1L of water volume.  
Ex: Water volume 200L - insert 200g of CM Fiber Cassette  
(The amount of CMFC to be added varies depending on the coutamination of the water)



### Installation Example

Field Experiment(Electronic component factory in Malaysia)



Experiment start date:10 May, 2019

After one month :12 June, 2019

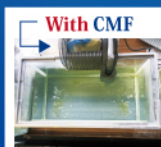
### DEMO TEST

Comparison of water with and without CM Fiber

- ① Prepare 2 water tanks with 15L of water each
- ② Place 15g of CMF in only one of the pump tank.

■ Period:2018/Oct/30 ~ 2019/Apr /09

■ Location: Kanagawa Institute of Technology, Prof YADA Lab. ■ Water:Under ground water :Around Ogaki City, Gifu-pre (mountains with limestone surroundings)



Water with CM fiber has very less contaminant(scale).

Easy to Install

High efficiency operation

Reduce chemical management

Cost savings

Remove malodor

Development and sales



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