MH fluid cooler
HYBRID DESIGN. HIGHER PERFORMANCE.
Utilizing a combination of evaporative fill media and prime surface coil(s), the MH Fluid Cooler offers significantly improved performance over conventional non-hybrid closed circuit coolers.

- up to 33% smaller footprint
- strategic coil location

- up to 75% less fan energy
- certified performance

Process fluid is pumped internally through the coil.

Heat is transferred from the process fluid to the recirculating water as it flows over the outside of the coil tubes.

The heated recirculating water is pumped from the collection basin to the distribution basin.

The recirculation water is then evenly distributed over the fill media, this cools the water before being distributed over the coil, for process fluid heat transfer.

**CoolBoost™ Technology**

*Utilizes high-efficiency components and optimum fluid paths to boost cooling dramatically when compared to forced-draft units with comparable footprint*  
*Uses up to 75% less fan energy*  
*Requires up to 35% less process fluid to fill the coil*  
*Weight is reduced by 15% or more*

*Assumes nameplate motor horsepower for a 195 ton, 12’ x 12’ fluid cooler, $0.10/kWh and 50% annual usage*
The MH Element Fluid Cooler incorporates the thermal advantages of copper coils with the combined higher efficiency of a cooling tower and a heat exchanger.

- designed to conserve fan power and space
- components specifically chosen to reduce maintenance and extend product lifespan

- 15% more thermal capacity*
- 20% lighter tower per footprint*
- 35% less fluid volume*
- 35% less fan power*

*Typical benefit compared with traditional HDG coil fluid coolers.
The Marley MH Fluid Cooler is one of the most efficient closed-circuit systems in its class and well suited for both HVAC and industrial applications supporting:

- water source heat pump
- water cooled VRF (variable refrigerant flow)
- data center cooling
- industrial air compressor cooling
- injection mold cooling
- machine jacket cooling

**Maximum Efficiency**

Hybrid design and high efficiency components deliver consistent, reliable cooling with low input power.

**Space Saving Footprint**

With higher capacity per footprint than conventional closed circuit designs, the MH Fluid Cooler is a great fit for applications with space limitations.

**Unmatched Reliability**

Heavy duty construction backed by our 5-year mechanical warranty helps keep your process running smoothly year after year.

**Certified Performance**

Thermal capacities of standard models are independently certified by the Cooling Technology Institute for performance with water, ethylene glycol solutions and propylene glycol solutions.

**Low Sound Operation**

Equipped with low-sound fans as standard, the MH Fluid Cooler is suitable for most noise sensitive situations. Multiple fan and attenuation options are available to meet more stringent sound requirements.

**Copper Coil Models**

Select models are now available with copper coils offering superior corrosion resistance, improved heat transfer, reduced operating weight and numerous other benefits. CTI Certified.
**STRATEGIC COIL LOCATION**

- Less risk of hot discharge air recirculation
- Easier to access and clean

**COIL MATERIAL OPTIONS**

Coil materials to suit a variety of application needs including:

- Copper
- Hot dip galvanized steel
- 304 or 316 stainless steel

**COPPER COIL ADVANTAGES**

- Superior heat transfer
- Superior corrosion resistance
- Lower life cycle cost
- Bacteriostatic
- Sustainable – Recyclable
NEED EFFICIENT CLOSED-LOOP COOLING?

The MH Fluid Cooler provides just that, with unit capacities exceeding ASHRAE Standard 90.1 energy efficiency requirements.

Find the right fluid cooler for your application at: spxcooling.com/update

maximum efficiency.

<table>
<thead>
<tr>
<th>Models</th>
<th>Tons*</th>
<th>L</th>
<th>W</th>
<th>H</th>
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<tr>
<td>MHF7101</td>
<td>31 - 80</td>
<td>6'-1&quot;</td>
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<td>92 - 210</td>
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<td>MHF7107</td>
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<td>MHF7109</td>
<td>234 - 376</td>
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* Based on 3 gpm/ton at 90°F Hot Water, 85°F Cold Water, 78°F Wet-Bulb. Varies depending on configuration.
maximum Marley.

Double-Flow Models

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<td>310 – 528</td>
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</table>

* Based on 3 gpm/ton at 95°F Hot Water, 85°F Cold Water, 78°F Wet-Bulb. Varies depending on configuration.
Overview

The Marley MH Fluid Cooler provides high-efficiency cooling while keeping process fluids in a clean, closed loop.

Primary Benefits

Why a Fluid Cooler?

• One third of the components, reducing installation time
• A coil provides eight times the free space which reduces fouling, improving process efficiency
• Certified performance is achievable at colder fluid temperatures for a given wet bulb

Why a Marley MH Fluid Cooler?

• CoolBoost® Technology reduces energy costs up to 75% compared to forced-draft units
• Strategic coil location

Benefit Detail

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MARLEY

15 hp Hybrid

60 hp Forced Draft

$4,901

$19,605

ENERGY COSTS PER CELL*

Cooling Tower

Pump

Plate Heat Exchanger

Fluid Cooler

Copper Coil

Fluid Cooler Coil

Copper

Carbon Steel

Stainless Steel

Copper

250

200

150

100

50

THERMAL CONDUCTIVITY (Btu/h·ft²·°F)

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

COPPER

CARBON STEEL

CLOSED SYSTEM

OPEN SYSTEM

6

5

4

3

2

1

MILS (.001) PER YEAR

COPPER

COPPER

COPPER

Marley Insight

Marley Insight

Recold JW Fluid Cooler

Marley MC Fluid Cooler

MH Fluid Cooler

Copper Coil

Marley Insight

Recold JW Fluid Cooler

Marley MC Fluid Cooler

MH Fluid Cooler

Other SpX Cooling Technologies

Fluid Coolers

SPX Cooling Technologies offers a full line of industry leading products – with unmatched support and innovation designed to help you get the most out of your cooling process. Take a look at these other products at spxcooling.com.

ADDITIONAL MH Fluid Cooler Publications

For further information about the MH Fluid Cooler – including engineering schematics, data, layout requirements and more – download these MH Fluid Cooler publications and others at spxcooling.com.