

# MH fluid cooler

HYBRID DESIGN. HIGHER PERFORMANCE.

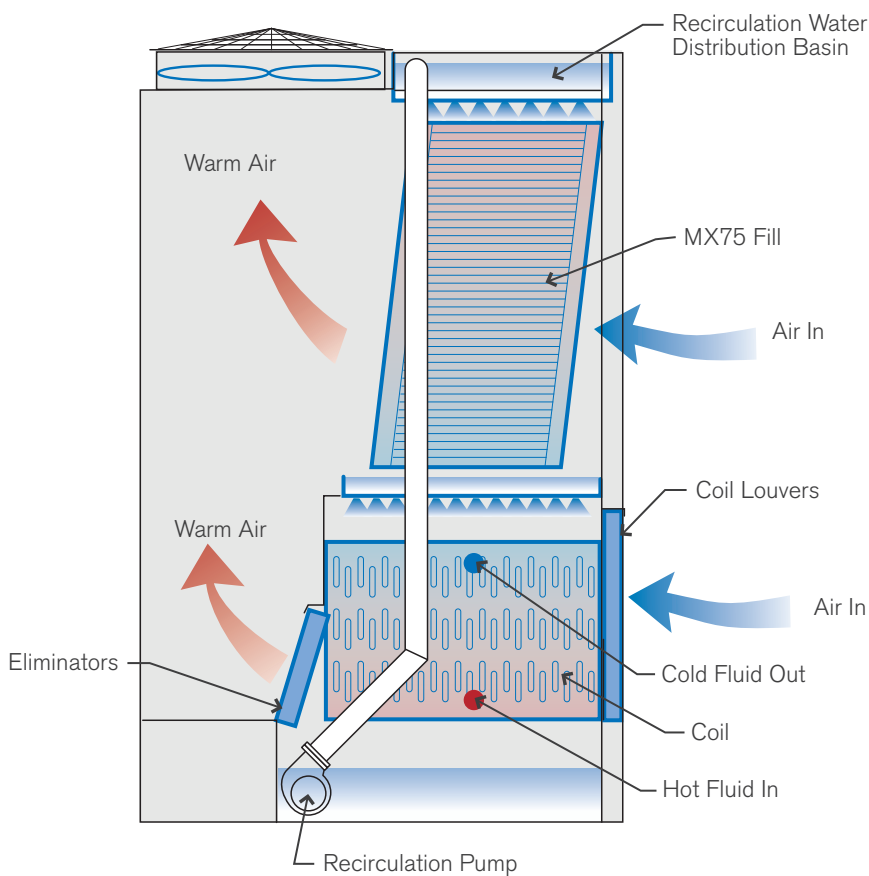
MARLEY®



## hybrid design – coolboost™ technology

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
- up to 75% less fan energy
- strategic coil location
- certified performance

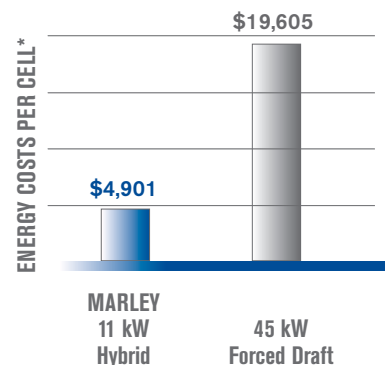


- Process fluid is pumped internally through the coil
- Heat is transferred from the process fluid to the recirculating water as it flows over the outside of the coil tubes
- The heated recirculating water is pumped from the collection basin to the distribution basin
- The recirculation water is then evenly distributed over the fill media, this cools the water before being distributed over the coil, for process fluid heat transfer

### CoolBoost™ Technology

Maximum Heat Transfer  
Minimum Footprint

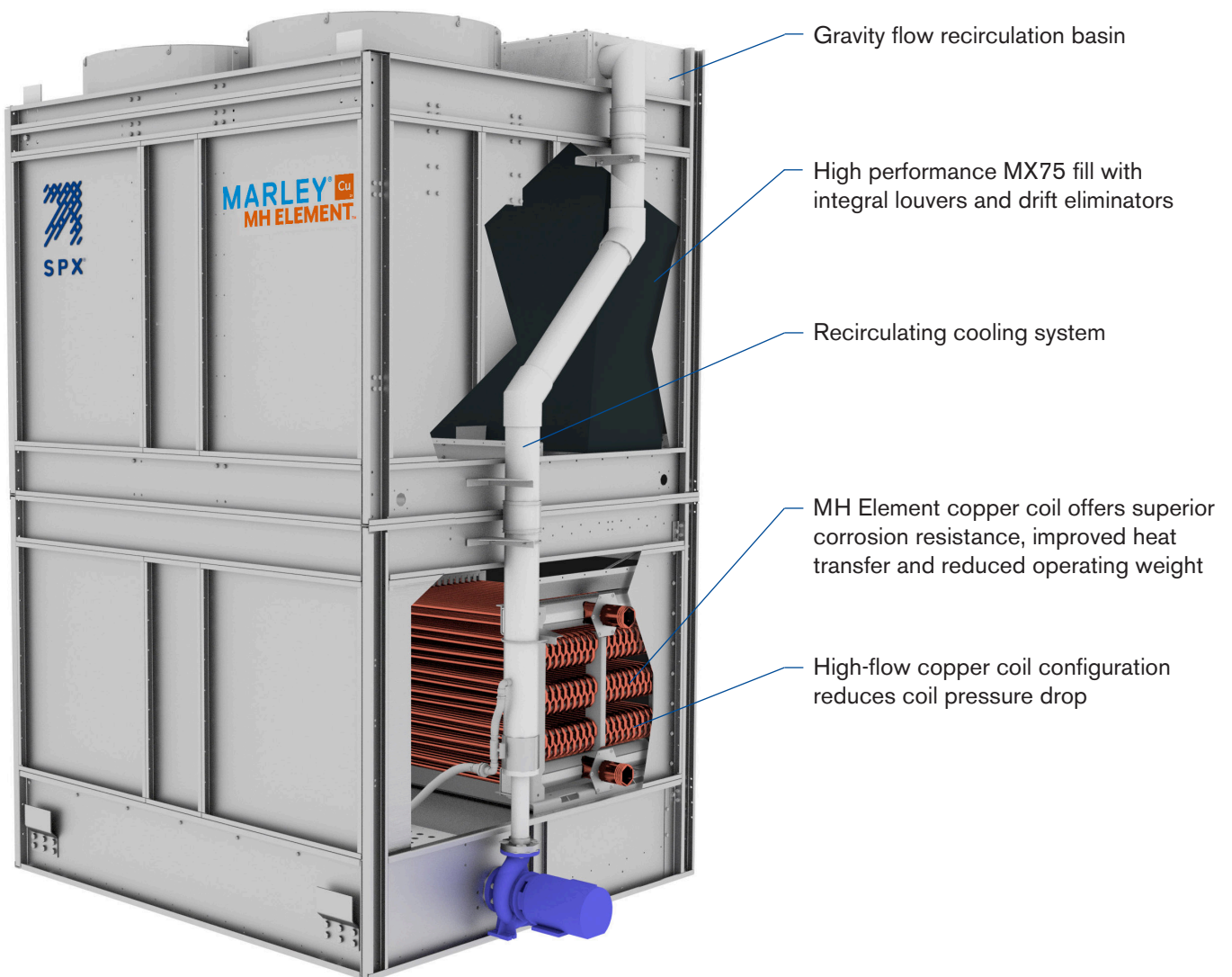
- Utilizes high-efficiency components and optimum fluid paths to boost cooling dramatically when compared to forced-draft units with comparable footprint\*
- Uses up to 75% less fan energy
- Requires up to 35% less process fluid to fill the coil
- Weight is reduced by 15% or more



\* assumes nameplate motor kW for a 195 ton nominal capacity, 3.6m x 3.6m 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



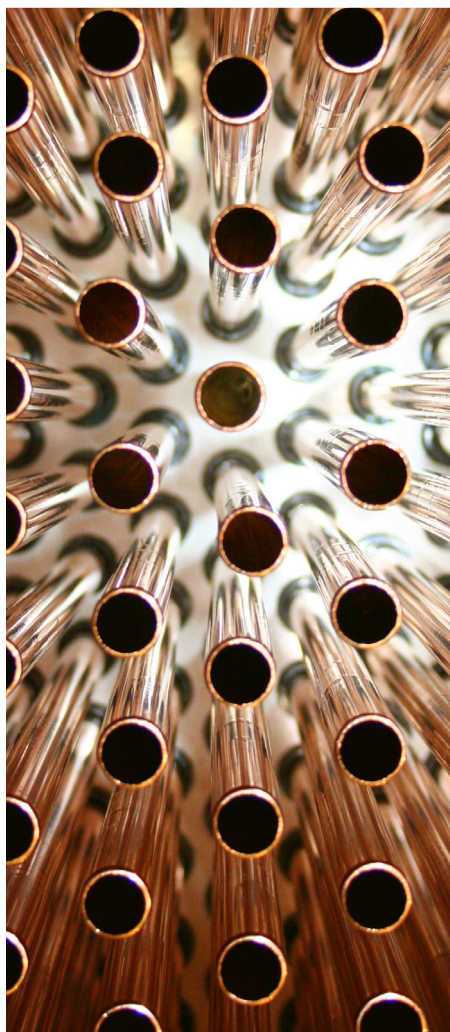
**MARLEY** Cu  
**MH ELEMENT**

**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.

# MH fluid cooler



- Combine the functionality of a cooling tower and heat exchanger in one piece of equipment
- Protect process fluids from contamination
- Maximize system efficiency by reducing fouling and scaling tendencies
- Reduce system energy and maintenance costs
- Conserve valuable mechanical equipment space
- Provide reliable, efficient, year-round operation

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.

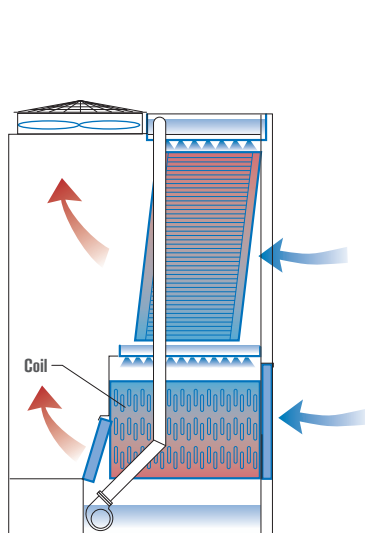
## **Low Sound Operation**

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.

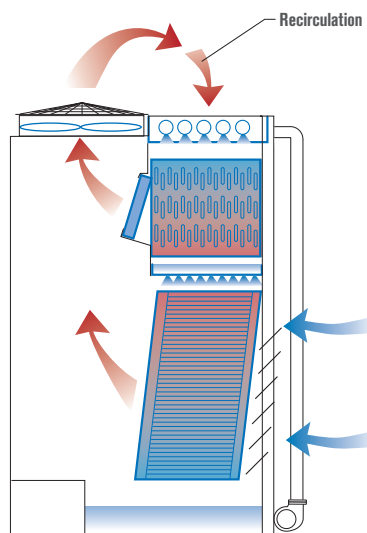
## **Copper Coil Models**

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

# heat transfer coil



Marley MH Fluid Cooler



Other Leading Fluid Cooler

## STRATEGIC COIL LOCATION

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



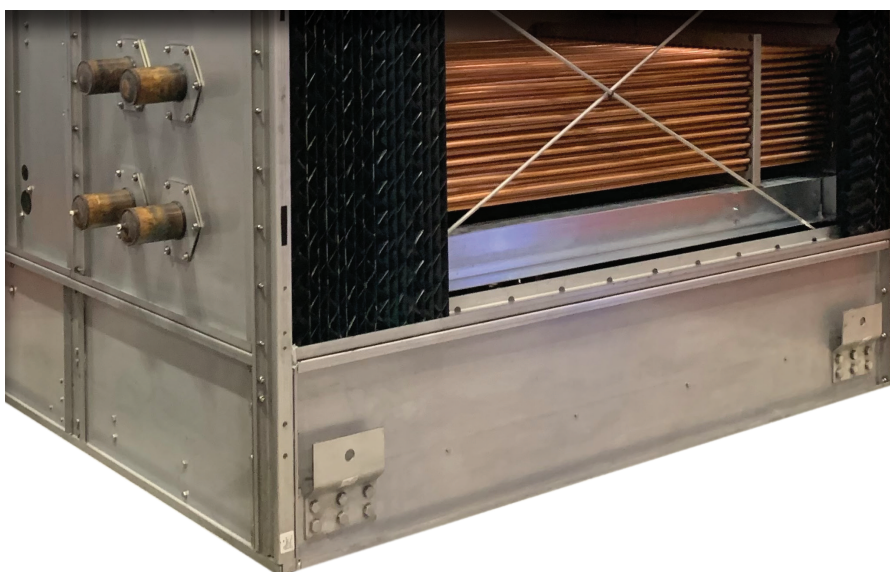
## COIL MATERIAL OPTIONS

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



# MH fluid cooler



## 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](http://spxcooling.com/update)

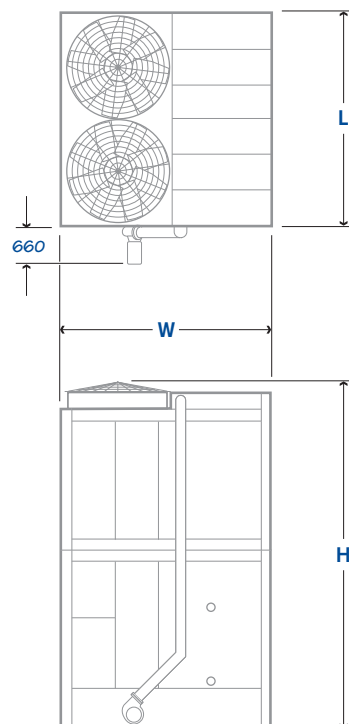


maximum efficiency.

### Single-Flow Models

Models	Tons*	L	W	H
MHF7101	31 – 80	1854	2540	3937 – 4394
MHF7103	71 – 151	2769	2540	4445 – 6172
MHF7105	92 – 210	3683	2540	4445 – 6172
MHF7107	148 – 315	3683	3632	5309 – 6833
MHF7109	234 – 376	5512	3632	5309 – 6172

\* Nominal capacity based on 0.681 m<sup>3</sup>/hr per ton at 35°C Hot Water, 29.5°C Cold Water, 25.5°C Wet-Bulb.  
Varies depending on configuration.

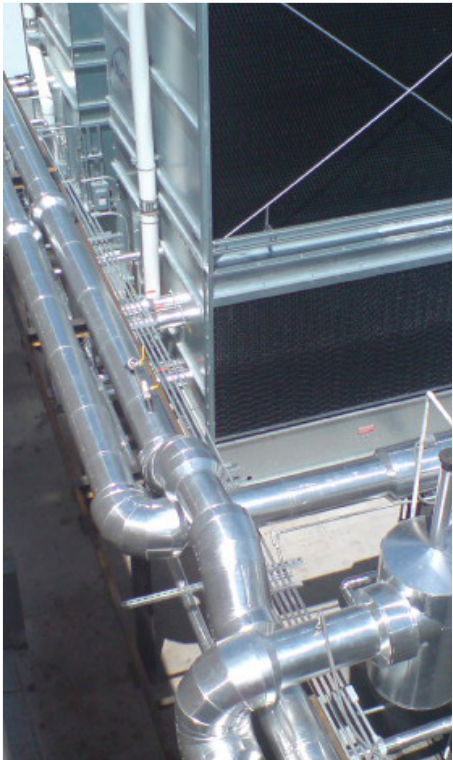
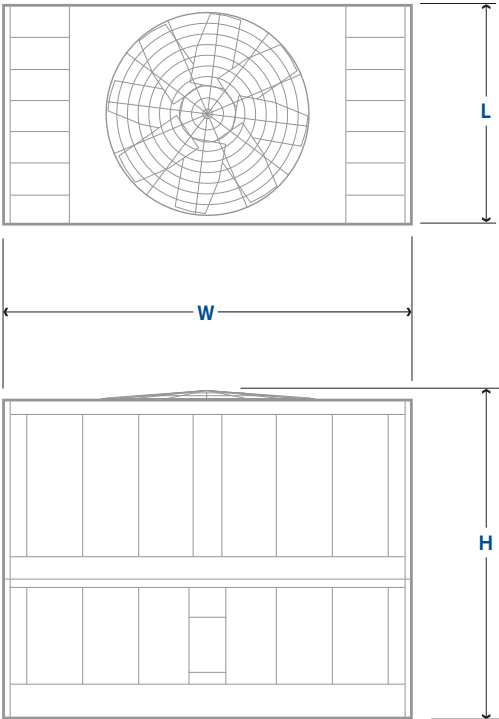


maximum Marley.

Double-Flow Models

Models	Tons*	L	W	H
MHF7111	310 – 528	3632	7264	6553
MHF7113	410 – 628	4242	7874	6553

\* Nominal capacity based on 0.681 m³/hr per ton at 35°C Hot Water, 29.5°C Cold Water, 25.5°C Wet-Bulb.  
Varies depending on configuration.



## 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](http://spxcooling.com).



Engineering Data and Specifications



IOM Manual



MH Fluid Cooler Marley Insight



Copper Coil Marley Insight

## 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](http://spxcooling.com).



Marley LW Fluid Cooler



Marley DT Fluid Cooler



Recold JW Fluid Cooler



Marley MC Fluid Cooler

## SPX COOLING TECHNOLOGIES MALAYSIA SDN BHD

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