

MH fluid cooler

HYBRID DESIGN. HIGHER PERFORMANCE.

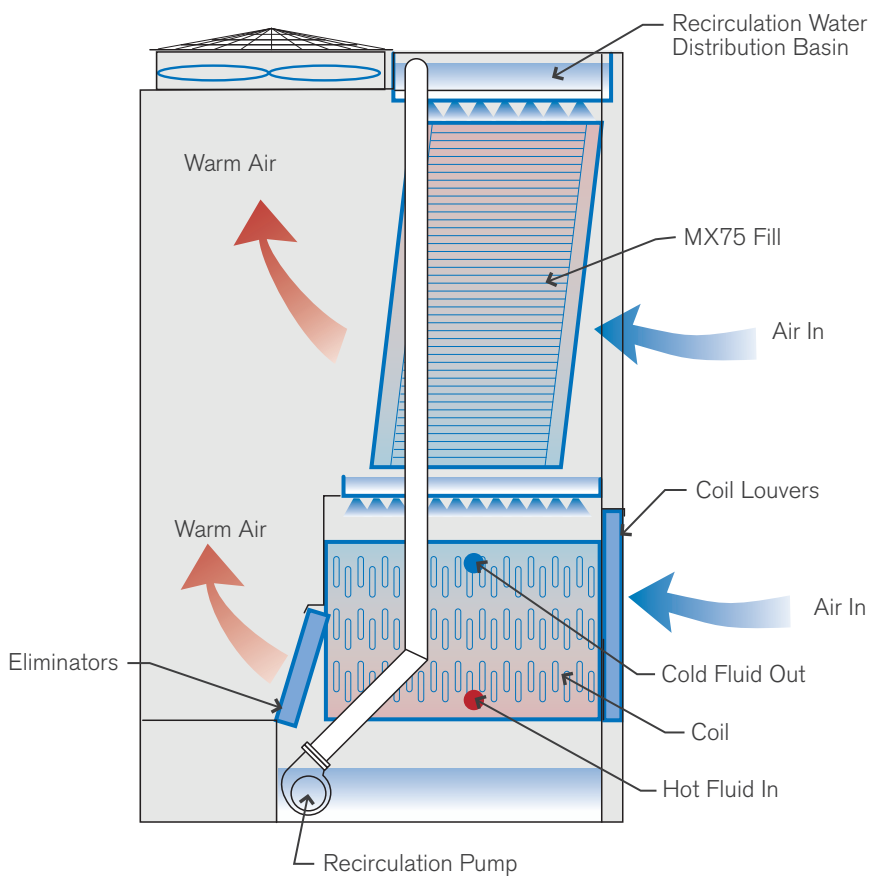
MARLEY® 



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

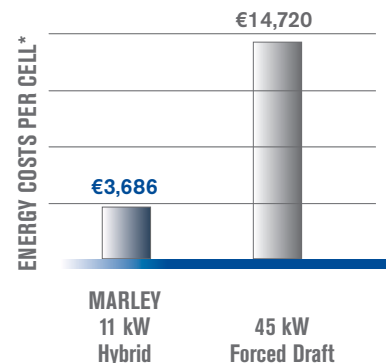


- Process fluid is pumped internally through the coil
- Heat is transferred from the process fluid to the recirculating water as it flows over the outside of the coil tubes
- The heated recirculating water is pumped from the collection basin to the distribution basin
- The recirculation water is then 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

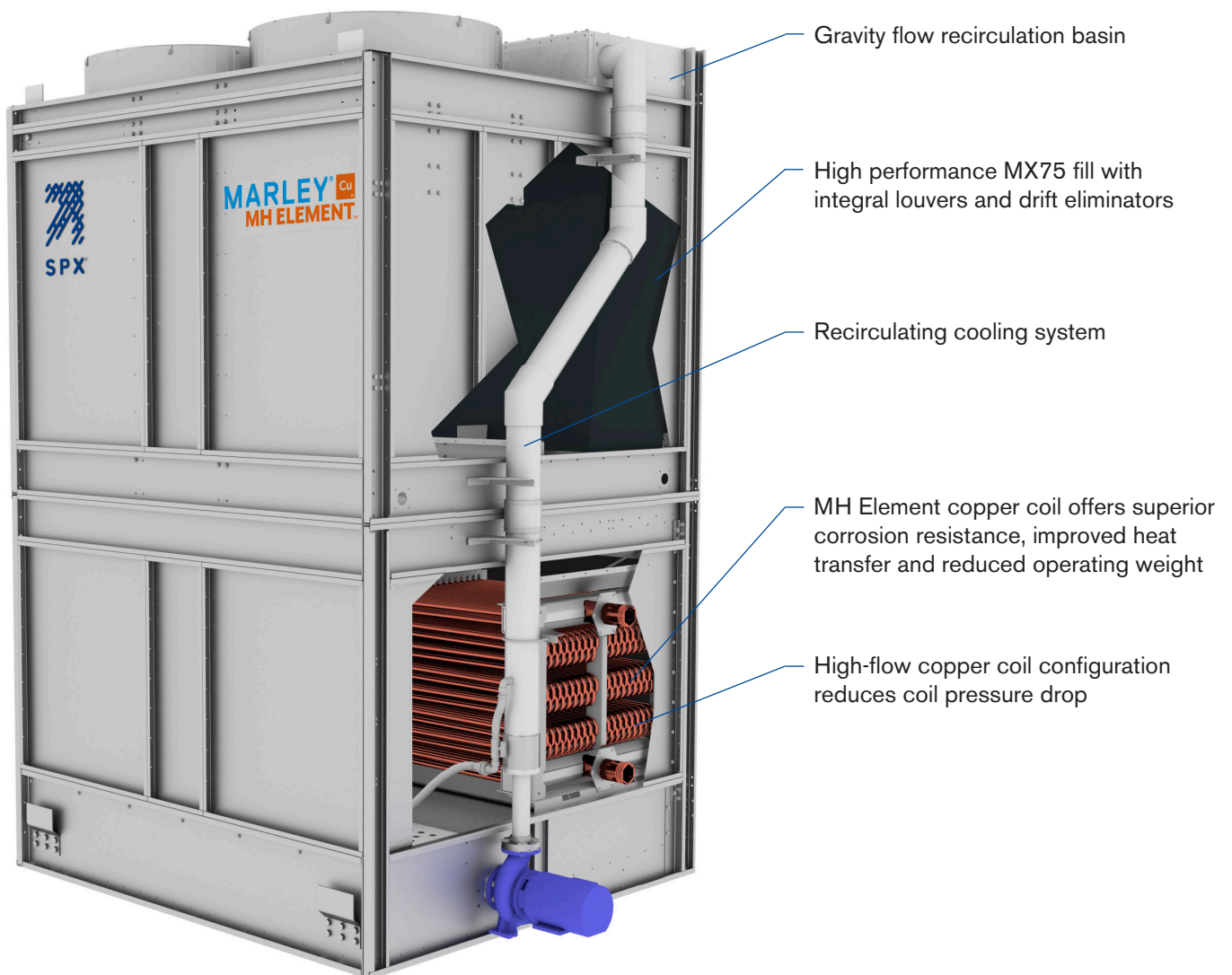
- Utilizes high-efficiency components and optimum fluid paths to boost cooling dramatically when compared to forced-draft units with comparable footprint*
- Uses up to 75% less fan energy
- Requires up to 35% less process fluid to fill the coil
- Weight is reduced by 15% or more



* assumes nameplate motor kW for a 857 kW nominal capacity, 3.6m x 3.6m fluid cooler – €0.08/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



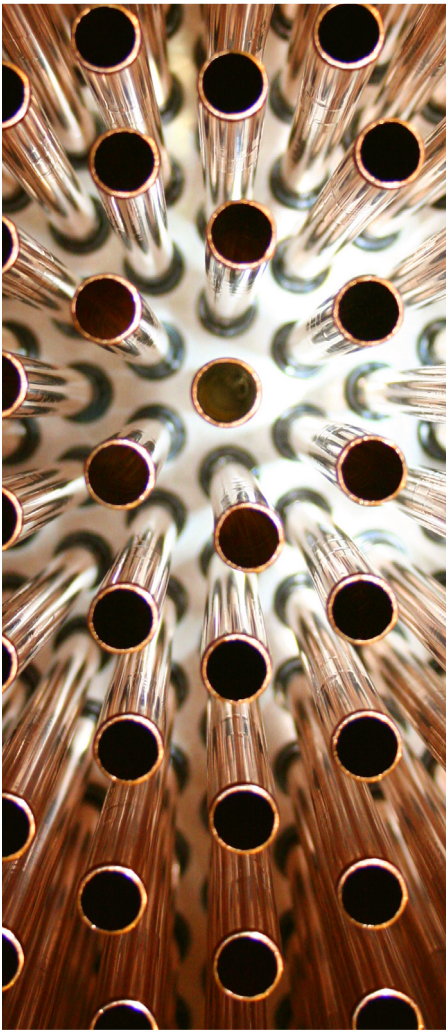
MARLEY Cu
MH ELEMENT

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.

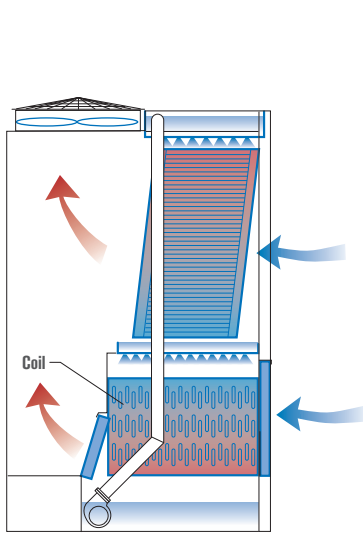
Low Sound Operation

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.

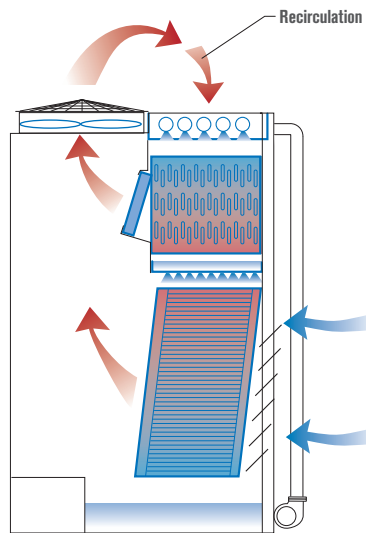
Copper Coil Models

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



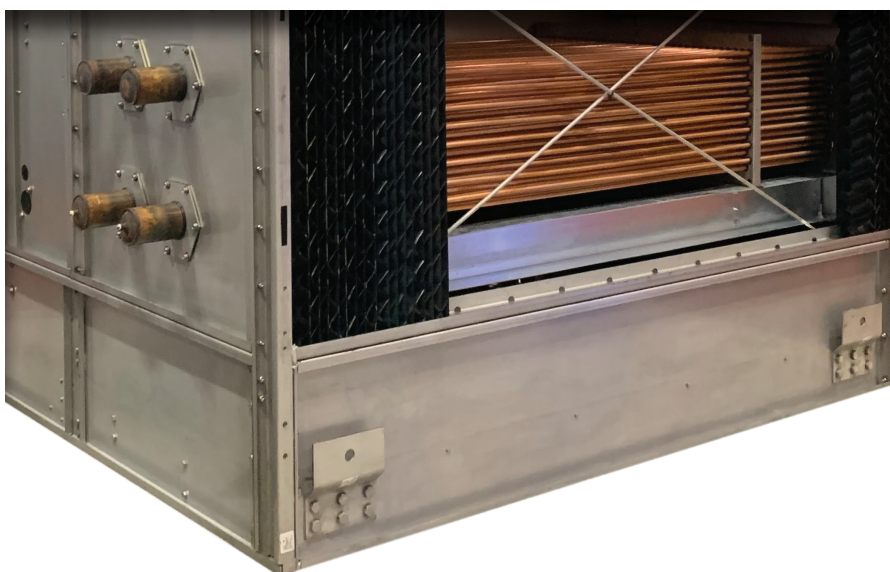
COIL MATERIAL OPTIONS

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

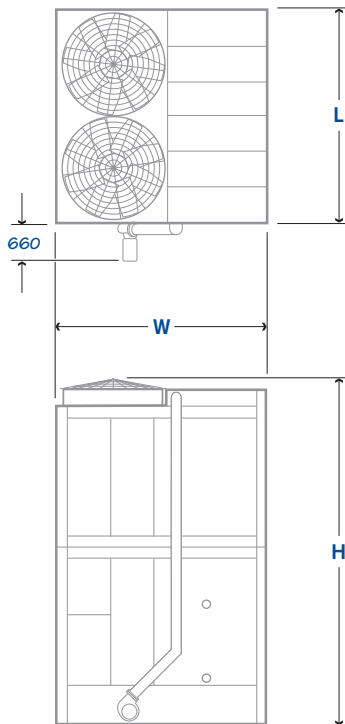


maximum efficiency.

Single-Flow Models

Models	kW*	L	W	H
MHF7101	136 – 352	1854	2540	3937 – 4394
MHF7103	312–664	2769	2540	4445 - 6172
MHF7105	404–923	3683	2540	4445 - 6172
MHF7107	651–1385	3683	3632	5309 - 6833
MHF7109	1029 – 1653	5512	3632	5309 – 6172

* Nominal capacity based on 0.155 m³/hr per kW at 35°C Hot Water, 29.5°C Cold Water, 25.5°C Wet-Bulb. Varies depending on configuration.



SPX participates in the ECP programme for Cooling Towers.
 Range – MHF Series. Certification Diploma #15.03.064.
 Ongoing certificate validity: eurovent-certification.com

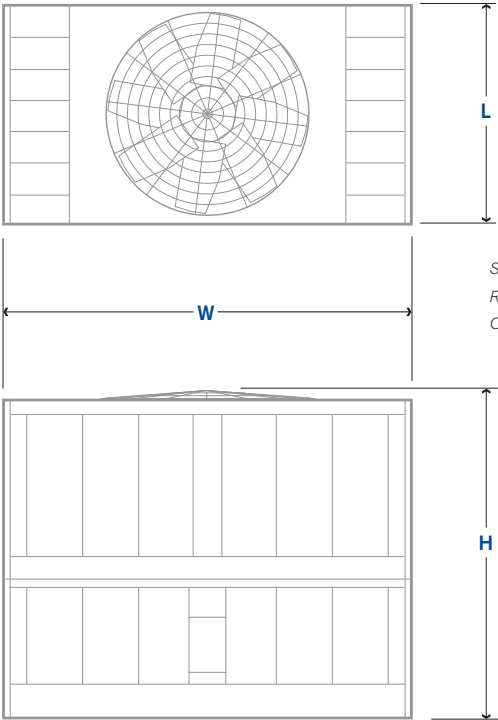
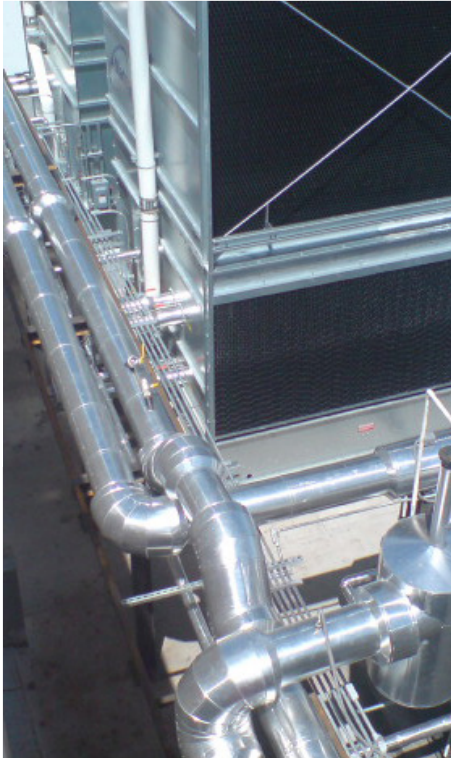


maximum Marley.

Double-Flow Models

Models	kW*	L	W	H
MHF7111	1363–2321	3632	7264	6553
MHF7113	1802–2761	4242	7874	6553

* Nominal capacity based on 0.155 m³/hr per kW at 35°C Hot Water, 29.5°C Cold Water, 25.5°C Wet-Bulb. Varies depending on configuration.



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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.



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.



Marley LW Fluid Cooler



Marley DT Fluid Cooler



Recold JW Fluid Cooler



Marley MC Fluid Cooler

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