

MH fluid cooler

HYBRID DESIGN. HIGHER PERFORMANCE.

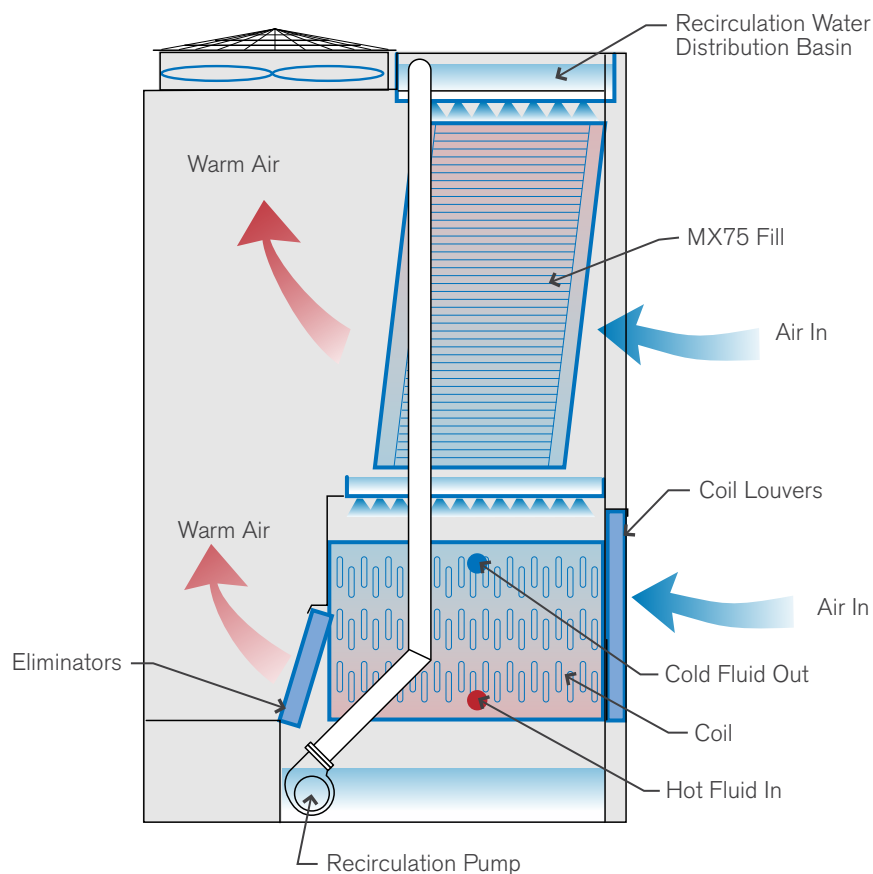
MARLEY® 



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

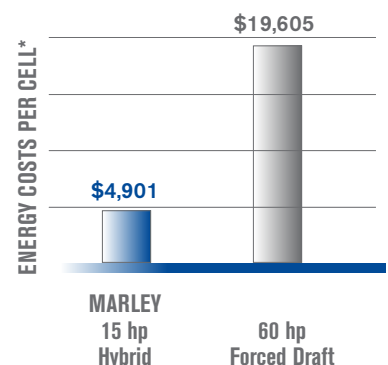


- Process fluid is pumped internally through the coil
- Heat is transferred from the process fluid to the recirculating water as it flows over the outside of the coil tubes
- The heated recirculating water is pumped from the collection basin to the distribution basin
- The recirculation water is then evenly distributed over the fill media, where it interacts with air induced by the fan(s), rejecting heat to the atmosphere.

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

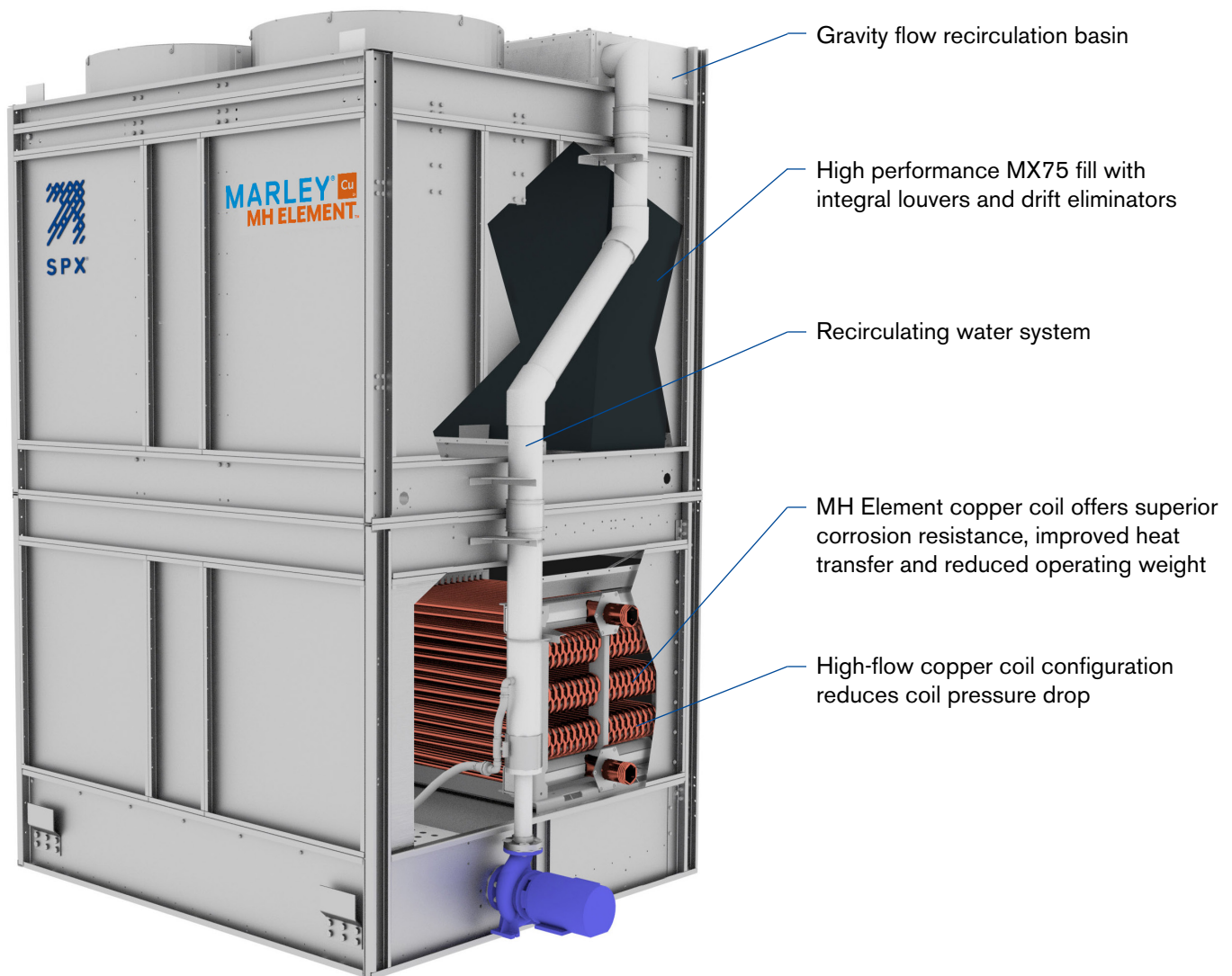


* Assumes nameplate motor horsepower for a 195 ton, 12' x 12' fluid cooler, \$0.10/kWh and 50% annual usage.

Industry leading performance per footprint

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



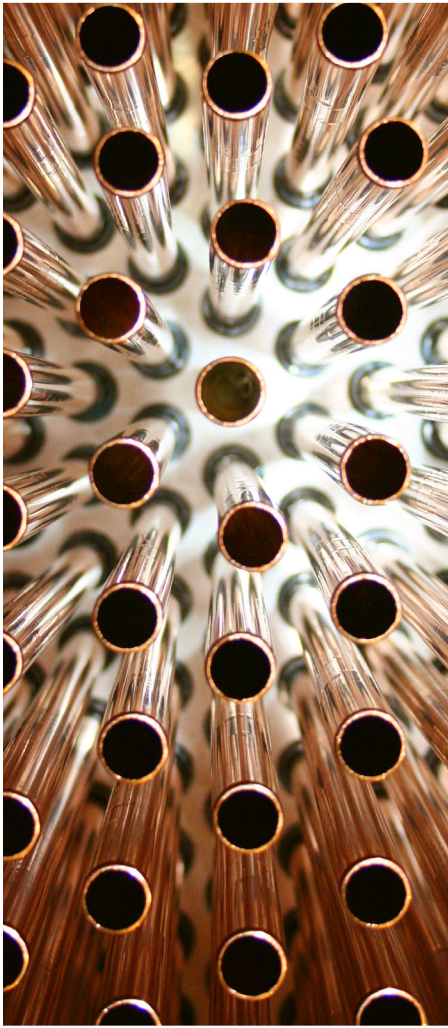
MARLEY **Cu**
MH ELEMENT

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 the most efficient closed-circuit fluid cooler 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

Copper Coils in All Model Sizes

Copper coils are now available in all model sizes, bringing superior corrosion resistance, improved heat transfer, reduced operating weight and numerous other benefits to the entire MH Fluid Cooler product line.

Maximum Efficiency

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

Space Saving Footprint

With the highest thermal performance per footprint in the industry, 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.

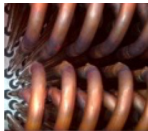
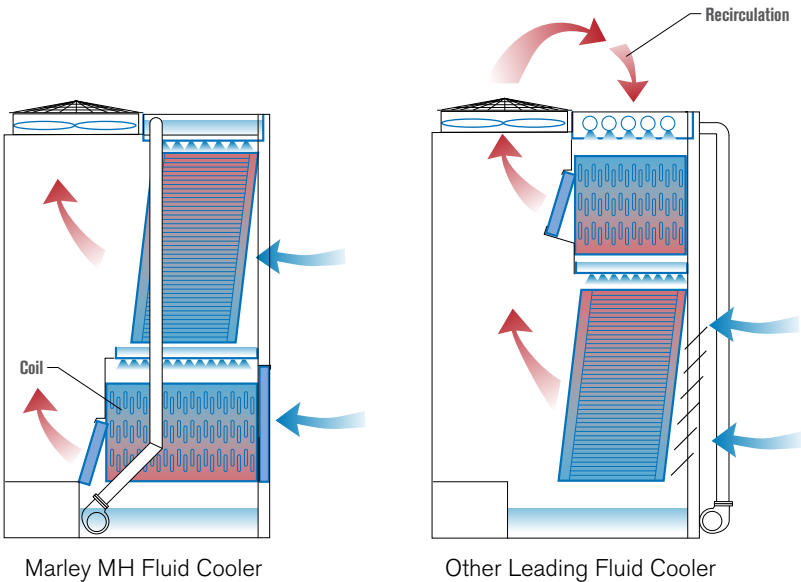
Certified Performance

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.

heat transfer coil



Footprint	Copper	HDG Steel	Stainless Steel
8.5' x 6'	✓	✓	✓
8.5' x 9'	✓	✓	✓
8.5' x 12'	✓	✓	✓
12' x 12'	✓	✓	✓
12' x 18'	✓	✓	✓
12' x 24'	✓	✓	✓
14' x 26'	✓	✓	✓

The Marley MH Fluid Cooler leads the industry with more coil material flexibility than any other fluid cooler, offering CTI Certified performance with copper, HDG steel, and stainless steel coils.

STRATEGIC COIL LOCATION

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



COIL MATERIAL OPTIONS

Three coil materials available to meet application requirements:

- Copper
- Hot-dip galvanized (HDG) 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 using our exclusive UPDATE™ product selection software:
spxcooling.com/update

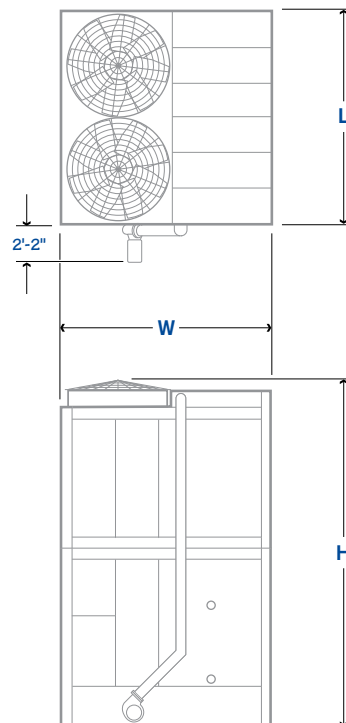


maximum efficiency.

Single-Flow Models

Models	Tons*	L	W	H
MHF7101	31 – 80	6'-1"	8'-4"	12'-11" – 14'-5"
MHF7103	71 – 151	9'-1"	8'-4"	14'-7" – 20'-3"
MHF7105	92 – 210	12'-1"	8'-4"	14'-7" – 20'-3"
MHF7107	148 – 315	12'-1"	11'-11"	17'-5" – 22'-5"
MHF7109	234 – 494	18'-1"	11'-11"	17'-5" – 22'-4"

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



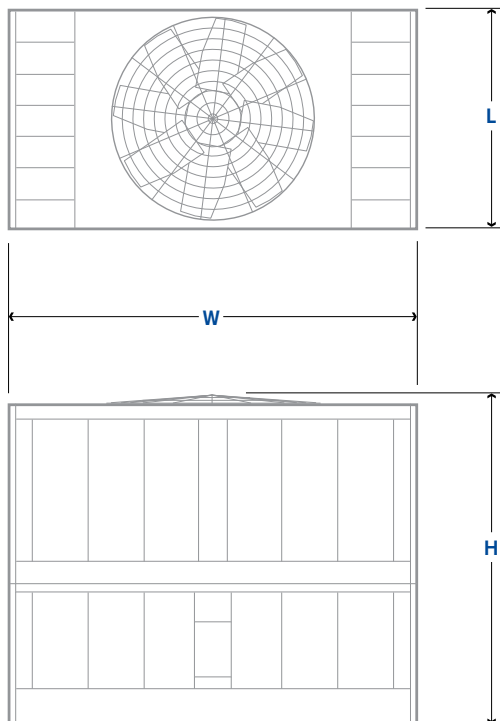
*Recirculating pump may be located on either end. Some models have pumps on both ends.

maximum Marley.

Double-Flow Models

Models	Tons*	L	W	H
MHF7111	310 – 628	11'-11"	23'-10"	21'-6"
MHF7113	410 – 746	13'-11"	25'-10"	21'-6"

* Based on 3 gpm/ton at 95°F Hot Water, 85°F Cold Water, 78°F 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.



Engineering Data and Specifications



MH Fluid Cooler Marley Insight



Copper Coil Marley Insight



IOM Manual

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

SPX COOLING TECHNOLOGIES, INC.

7401 WEST 129 STREET
OVERLAND PARK, KS 66213 USA
913 664 7400 | spxcooling@spx.com
spxcooling.com

MHF-20A | ISSUED 11/2020

©2004-2020 SPX COOLING TECHNOLOGIES, INC. ALL RIGHTS RESERVED

In the interest of technological progress, all products are subject to design and/or material change without notice.

