

INTRODUCING
the Marley® MD Cooling Tower

/ The right answer in so many ways /



SPX

COOLING TECHNOLOGIES



For decades, SPX Cooling Technologies has been a leading producer of counterflow cooling towers for large industrial installations. The **Marley MD** takes advantage of this experience by bringing it down to size.

The Marley MD is a packaged tower, which makes it a definite go-to solution for light industry and HVAC applications.

Marley Quality On A Whole New Scale

We're well known for our outstanding crossflow systems. So why select a counterflow tower? Because the Marley MD tower provides comparable capacity with a smaller footprint, expanding the landscape of possible uses.





Marley MD Cooling Tower: The Right Answer in So Many Ways

Unmatched reliability

Heavy-duty construction, high-performance design and our five-year mechanical warranty ensures consistent, CTI-certified, fully rated cooling over a wide range of flow and temperature requirements.

Smaller footprint

Induced draft counterflow design requires less plan area than crossflow towers. And because the tower's size results in less steel used, its reduced weight requires less support structure.

Ease of maintenance

SPX has worked hard to address the maintenance difficulties long associated with counterflow towers. Our MD tower provides larger access doors, easily removable block fill and other features that simplify maintenance. For European towers, an optional fill removal access door is now available that complies with HSE ACoP L8 requirements.

Low energy consumption

Induced draft counterflow equipment minimizes the energy consumption by providing lower fan energy than centrifugal fan counterflow units.

Low-noise

The Marley MD comes standard with our CTI-certified low-noise fan, suitable for most noise-sensitive situations.



Superior Water Management

To address the "splash-out" problem typically found in competitive counterflow designs, SPX introduces an **industry first**: a triple-pass inlet louver and drift eliminator that conserves water and improves winter operation.

Why Counterflow May Be Your Best Choice

All This... and Green, Too

Designed to be environmentally responsible, the MD conserves water by keeping splash-out to a minimum. And being remarkably energy efficient, it doesn't waste a single kilowatt.



**COOL IS
GREEN
IS COOL**

Restricted site conditions

Counterflow towers have different footprints from crossflow towers and offer layout alternatives. Where space is limited or otherwise restricted, the counterflow's smaller footprint can be a perfect fit. In addition to taking up less site space, counterflow towers may have a lower installed weight. Plus, piping costs can be reduced since a single inlet is usually standard.

Operation and maintenance considerations

Counterflows' tight louvers prevent sunlight from hitting the collection basin and therefore reduce algae growth. Counterflow towers offer easy access from all tower sides. The wet surface is totally enclosed for winter operation and protection from environmental elements, and the towers provide a corrosion-resistant spray system.

Value-Added Options

Welded stainless steel collection basin

For extra protection, all collection basin parts exposed to circulating water (including structural members that project into the basin) and all attaching hardware and basin options are heavy-gauge series 300 stainless steel.

Marley Geareducer

Marley Geareducers decrease downtime and labor costs thanks to longer-lasting fluid. The suggested lubrication interval for our Geareducers is a remarkable five years.

Electric basin heater

This electric immersion heater is used to help prevent freezing during cold weather.

Solid-state water level control package

This package monitors basin water levels with solenoid-valve water makeup. Configurations include makeup along with high- and low-water level alarm and cutoff, and electric basin heater cutoff.

Vibration switch

This option protects against mechanical failure should the tower experience high vibration levels by automatically shutting down the motor. Manual reset ensures inspection to correct initial vibration cause.

Variable speed drive

Our variable speed drive provides the ultimate in temperature and sound control, energy management and mechanical equipment longevity.

Control systems

These range in sophistication from standard fan starters to Programmable Logic Controllers that work in conjunction with your building or process system.

Sound attenuation

Baffles can be installed across the length of the air outlet opening. All baffles are contained within a self-supporting steel box. Splash attenuation is also available.



Triple-Pass Louvers

Fan Unit

PVC Distribution System

Triple-Pass Drift Eliminators

MC120 Fill

The Proof Is in the Details.

The MD tower is first and foremost a Marley – and that alone speaks volumes.



Model	kW	Width	Length	Height [†]	Tons*
MD 5008	5.5	2565	2743	3912	189
	7.5	2565	2743	3912	207
	11	2565	2743	3912	234
	15	2565	2743	3912	255
MD 5010	11	2565	3658	4013	293
	15	2565	3658	4013	317
	18.5	2565	3658	4013	341
	22	2565	3658	4013	360
MD 5016	11	3607	3658	4851	368
	15	3607	3658	4851	403
	18.5	3607	3658	4851	431
	22	3607	3658	4851	460
	30	3607	3658	4851	500

[†]Tower height may vary depending on configuration and cell quantity

*Based on .68 m³/hr per ton at 35°C HW, 29.5°C CW, 25.5°C WB





What makes the Marley counterflow tower stand out from its competitors?

- Triple-pass inlet louvers and drift eliminator for superior splash-out protection and water conservation
- SPX's position as "sole source supplier" for all configurations of cooling towers and fluid coolers
- Marley Geareducer option, offering a five-year, no-oil-change interval
- Available in multi-cell configurations
- The Marley reputation. Our brand name. Our service. Our position as an undisputed industry leader in product quality.



The Bottom Line

As a leading producer of cooling towers for over 100 years, we are committed to building the best. So, when we decide to offer an improved line of towers – like the Marley MD – you can be sure that **we've** made sure it's going to live up to our standards in every way.

ADDITIONAL MD COOLING TOWER PUBLICATIONS

For further information about the MD Cooling Tower – including engineering schematics, data, layout requirements and more – ask your Marley sales representative for a copy of the following publications:



Engineering Data and Specifications



IOM Manual

OTHER SPX COOLING TECHNOLOGIES PRODUCTS

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 SPX Cooling Technologies products.



Marley NC® Class Cooling Tower



Marley MCW Cooling Tower



Marley AV Series Cooling Tower

SPX Cooling Technologies is a world-leading full-line cooling tower and air-cooled condenser manufacturer. The company provides the highest-quality evaporative cooling towers, fluid coolers and evaporative condensers under the Marley, Recold and Balcke brand names.



SPX®

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