

800 class

NATURAL DRAFT COUNTERFLOW COOLING TOWER

MARLEY®



Making good on our commitments for over 120 years

SPX Cooling Technologies' commitment to service the electric power industry with quality products and innovations began as early as 1883. By making good products and making good on our commitments, SPX has become the leading force in the world of cooling towers.

Over 150 SPX Cooling representative offices, subsidiaries, licensees, agents, joint venture associates and distributors are strategically located around the world. They respond quickly to customers anywhere. And, as one of the "world class market leaders" in the SPX Corporation, we have the strong financial backing major projects demand.



With a combined total of over 275 natural draft concrete hyperbolic cooling towers installed and operating worldwide, the SPX Cooling Technologies team offers you an outstanding source of design, engineering, manufacturing and construction expertise.

Exceptional performance. Proven design.

Each Marley 800 Class natural draft cooling tower is created by a team involving over 200 specialists, including mathematicians, chemical, civil and mechanical engineers, with expertise in soil mechanics, concrete design, hydraulics, heat transfer, materials and machine design. All dedicated to developing the best solution for your unique application.

Everything about your Marley cooling tower is designed as an integrated system. All the components work in harmony because they are all designed, manufactured, tested for quality and compatibility and warranted by SPX. The alternative relies on components from many different manufacturers which have little chance of working together efficiently and reliably.

Our Research and Development Center is dedicated to enhancing technology to make sure you get the results you want. Engineers and technicians are constantly testing new concrete concepts and reinforcing details, modelling the effects of wind and tower locations, optimizing thermal performance and more.

We guarantee the cold water you specify is the cold water you get. It's this simple: we guarantee your tower will meet your specified thermal conditions when tested to CTI ATC-105 by a CTI-licensed agency. Your tower and its performance are backed by SPX Cooling Technologies, your single-source supplier.



Performance as promised. Why settle for less?

CLOG-RESISTANT MARLEY NS NOZZLE

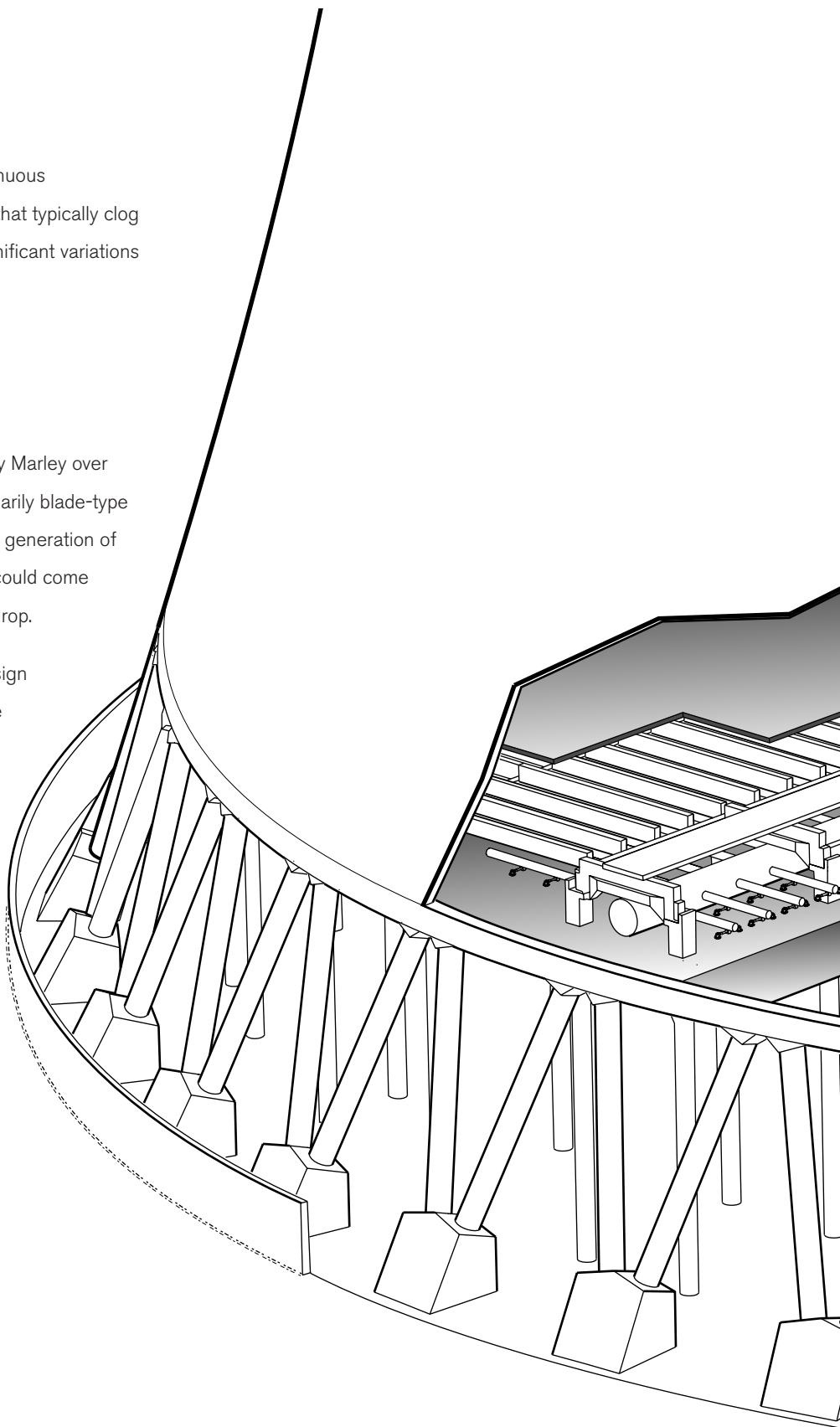
Large orifice, low-pressure design assures continuous maintenance-free operation in water conditions that typically clog other nozzles. Marley NS nozzles also permit significant variations in flow rate for load-trimming.

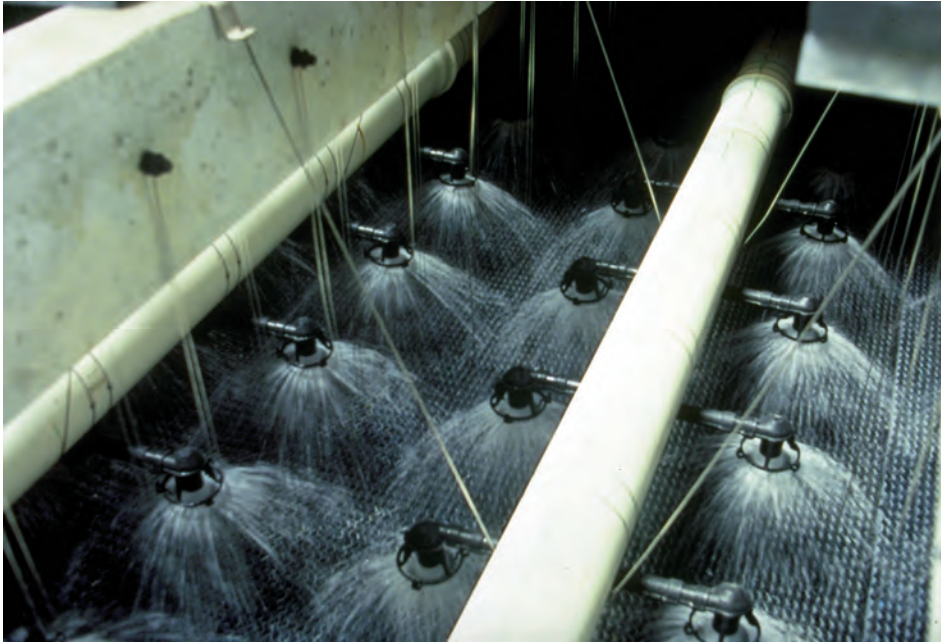
MARLEY XCEL® TU DRIFT ELIMINATOR

The first cellular drift eliminator was pioneered by Marley over 35 years ago when eliminator designs were primarily blade-type configurations. When Marley patented the XCEL generation of eliminators in the early 80s, no other eliminator could come close to XCEL's low drift rate and low pressure drop.

XCEL's unique interlocking self-sealing pack design creates a seamless installed field, eliminating the need for external sealing devices.

XCEL TU eliminators—a more advanced design—meets or exceeds today's demanding specifications for drift emissions, without sacrificing fan horsepower.



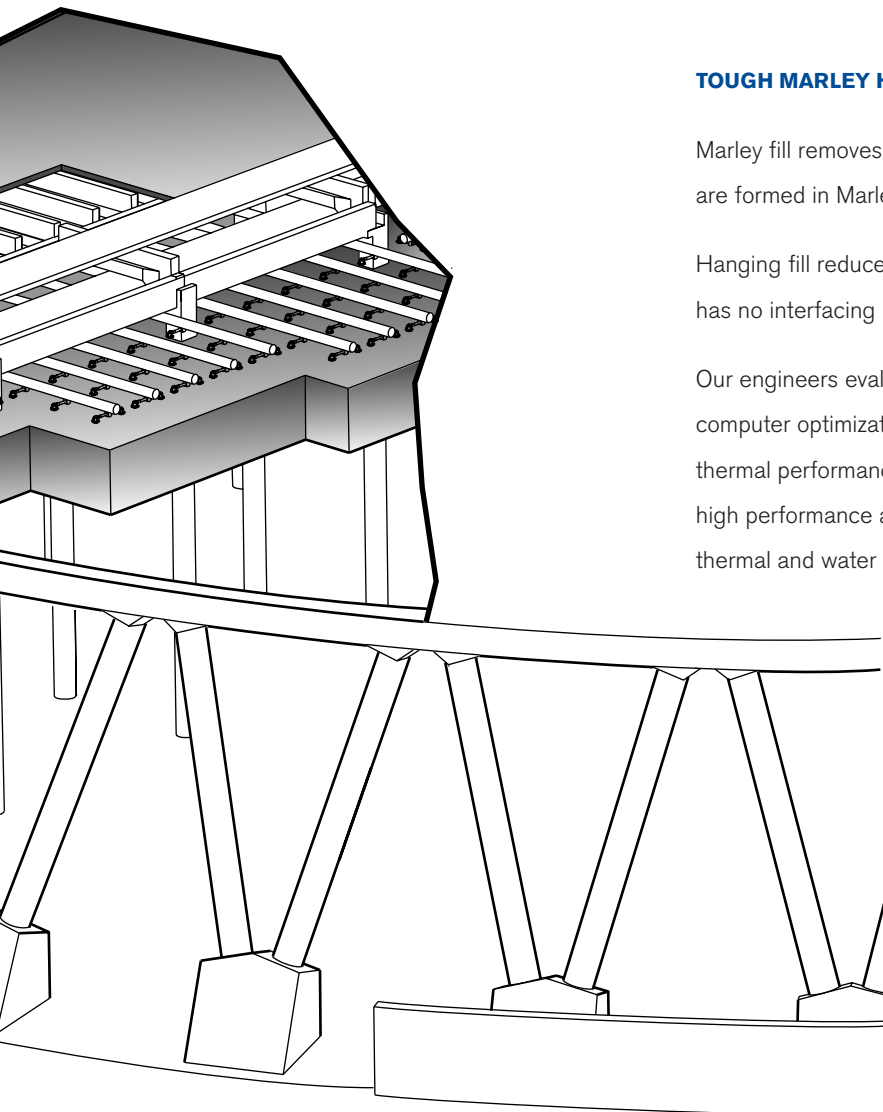


TOUGH MARLEY HIGH-PERFORMANCE PVC FILM FIL

Marley fill removes process heat efficiently, predictably. The PVC fill sheets are formed in Marley plants to exacting quality and strength standards.

Hanging fill reduces air blockages that occur with bottom-supported fill and has no interfacing layers that encourage fouling.

Our engineers evaluate each cooling tower application individually, using computer optimization analysis to select the best fill system which maximizes thermal performance and, they have done extensive development on several high performance and clog-resistant fill designs to meet a wide range of thermal and water quality requirements.



Concrete is the natural choice

Concrete is the choice when you want a natural, locally available construction material, ideally suited for long service life in the harshest cooling tower environment.

A few of the advantages of concrete include:

- **STRUCTURALLY STABLE**

The coefficient of thermal expansion is less than steel, and concrete defies the detrimental effects of heat and ultraviolet light. It naturally maintains its structural integrity whether wet or dry.

- **DURABLE**

Impervious to a broad range of corrosive substances—immune to rot and decay.

- **FIRE RESISTANT**

Marley natural draft concrete cooling towers with our standard hanging PVC film fill system is Factory Mutual approved. Sprinkler systems are not required, saving you on first cost and maintenance expense, too.



- **ENVIRONMENTALLY STABLE**

Concrete is a natural material which will not impact the quality of cooling water circulating through the tower or discharge contaminant into the air.

- **EASILY AVAILABLE**

Our construction superintendents have the knowledge and experience to work with local bridge and building crafts people, and most cities in the world have concrete mix and precast plants.

Get the most from your cooling tower . . . whoever built it

New construction isn't our only strength. We can work with you to enhance, restore and improve the performance of all your cooling towers.

We're familiar with all types of concrete cooling towers from all manufacturers.

The scope of one recent major project involved converting two crossflow towers to a counterflow design to increase performance and eliminate troublesome icing.



A partial list of services includes:

- Thermal performance upgrades
- Structural concrete evaluation and repair
- Performance testing
- Performance analysis
- Concrete shell inspection
- On-site construction management
- Construction supervision for your workforce
- Component replacement

SPX Cooling Technologies can coordinate design and construction between owners, engineers, contractors and plant sites throughout the world. We operate through a comprehensive global network of offices, representatives, subsidiaries, licensees and joint venture partners.

Working in the global arena means we design to and keep current with all international codes and conventions. We understand the labor, financial and other pertinent factors involved in your project.

Our global experience gives us more insight into the particular concerns in your region of the world. We want to put this special blend of expertise to work for you.

You simply cannot work with a more experienced team in the world of cooling towers. Let us show you how SPX can make a world of difference for you.



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