

# AV6800 steel cooling tower





The AV 6800 has 134 factory assembled tower models with 125-772 nominal tons per cell.

The Marley AV Series cooling tower is designed to minimize your costs and maximize your cooling performance through quick, easy installation and energy-efficient operation. Its single flow, induced draft crossflow design offers you pump and fan energy savings in a small footprint installation. The AV is an excellent replacement for forced draft counterflow cooling tower installations.

Every AV cooling tower benefits from all the knowledge and experience Marley has compiled from manufacturing cooling products for commercial and industrial use since 1922.



## Key Benefits

### IDEAL REPLACEMENT

The redesigned AV line has expanded cooling capacity ranging from 125-750 tons per cell. It's designed to easily replace forced draft or induced draft counterflow towers and for other space sensitive installations.

### LOW ENERGY COSTS

Highly efficient propeller fans consume half the energy of blowers. And gravity water distribution provides further savings through lower total pump head.

### EASY ACCESS

Large access doors on both endwalls and "stand-up" plenum area help make the AV easy to service with generous access to the basin and mechanical equipment. No "paint can lid" access hatches.

### LOW PIPING COSTS

Single inlet connection for easy and fast installation.

### LONG LIFE

Rugged G-235 galvanized steel frame, quality factory assembly. Optionally available in 301L stainless steel.

### ALL SEASON RELIABILITY

Integral louvers eliminate splash-out so towers operate virtually ice-free in the winter.

### CTI CERTIFIED THERMAL AND SOUND PERFORMANCE

Offering exceptional thermal and sound performance, the AV 6800 design is CTI Thermal and Sound certified, ensuring specified heat rejection and noise levels are delivered, with the long-term reliability expected from Marley.

### REAL WORLD DESIGN

Designed and built to withstand shipping, wind, seismic, operating and live loads.

### TOUGH MX HIGH-PERFORMANCE FILM FILL

Highly-efficient MarKey™ drift eliminators and honeycomb air inlet louvers are integrally molded within the MX fill sheets. The exclusive MarKey drift eliminator achieves the lowest measurable drift rate, down to 0.0005% of circulating water flow, of any standard crossflow configuration.

### ALUMINUM-ALLOY AXIAL FAN

Adjustable-pitch fan blades permit full use of rated horsepower. The fan blades are field-adjustable to optimize tower performance.

### FIVE-YEAR MECHANICAL WARRANTY

# Features

## AV AIR MOVEMENT SYSTEM

- Models available with multiple fans per cell to optimize balance of airflow while maximizing fill media surface area, and minimizing overall tower footprint.
- Heavy duty aluminum alloy fan – adjustable pitch blades.
- 7.5 hp and larger fans are driven by a high quality, solid backed, multi-grooved neoprene and polyester V-belt through a corrosion resistant aluminum alloy fan sheave.
- Heavy-duty, self-aligning, grease-lubricated roller bearings selected with an L<sub>10</sub> design life of 50,000 to 100,000 hours support the fan and shaft.
- TEFC fan motor, 1.15 service factor, variable torque design, specially insulated for cooling tower duty.
- The AV air movement system is guaranteed against failure for full five years from date of shipment. Includes fan, fan shaft and mechanical equipment support.

## AV WATER DISTRIBUTION SYSTEM

- Gravity flow distribution system. Easy, nonrestrictive maintenance. Basin covers are standard.
- Marley Spiral Target polypropylene nozzles for consistent, predictable water distribution.
- Marley MX thermoformed PVC film fill is suspended from the upper tower structure by heavy galvanized steel support members providing clearance between fill and sloping self-cleaning collection basin floor for easy basin cleaning. Integral eliminators and louvers keep circulating water confined to fill over a wide range of air flow rates.

## AV STRUCTURE

- Crossflow configuration — easier and safer to inspect, service and maintain.
- G-235 heavy galvanized steel. Also available in 301L stainless steel.
- Factory-assembled modules, including fan cylinders — make final field installation hassle-free.
- Large access doors — the generous plenum region in the AV tower is nonconfining, permitting quick visual inspection of cold water basin, internal structure, drift eliminators and mechanical equipment.



### Is the Marley AV Right for Your Application?

The best way to see if a Marley AV suits your needs is to run a complimentary product match analysis of your specific installation or plans. You can do it yourself or contact your local Marley sales representative.

**Find out at [spxcooling.com/update](https://www.spxcooling.com/update)**

Enter the key specs you're working with and make your own product selection.

Export Note: For economical transportation, AV towers are also available unassembled and crated for export.  
Safety Note: Always shut down and lock out the fan motor before entering the plenum.

## Optional Equipment and Accessories

Enhance your AV tower installation with options and accessories that will improve the operation, longevity, maintenance, and accessibility of your cooling tower.

### STAINLESS STEEL DISTRIBUTION BASIN

Corrosion is usually most aggressive in the hot water distribution basins — stainless steel provides assurance of long, trouble-free service life.

### MARLEY CONTROL SYSTEM PACKAGE

Factory-wired, factory-installed, factory-tested control center in NEMA 3R enclosure is mounted on tower casing near access door. Complete with thermostat controller for single or two-speed motors to maintain chosen cold water temperature.

### QUIET FAN

Provides lower sound levels for sound sensitive areas while maintaining CTI certification and FM approval. All sound data has been tested in accordance with ATC 128 to ensure accuracy.

### ULTRA QUIET FAN

Offers wide chord acoustic geometry for areas that require a significant reduction in sound while maintaining CTI certification and FM approval. All sound data has been tested in accordance with ATC 128 to ensure accuracy.

### EXTERNAL SERVICE PLATFORM

Provides easy access to distribution system without increasing installed height of tower. Platform with OSHA guardrails is factory mounted, eliminating installation labor cost and time. Field-installed ladder with optional safety cage for easy access.

### STAINLESS STEEL COLLECTION BASIN

All collection basin parts in the wetted area — including structural members projecting in the basin, assembly and attaching hardware, and all basin options, are heavy-gauge 301L stainless steel.

### AIR INLET SCREENS

Factory-installed, U-edged, galvanized wire mesh screens work in concert with the internal cellular louvers.



The AV Engineering Data and Specifications Manual AV-TS provides engineering schematics, data, and information necessary for initial tower layout and details the tower in the form of specification language, providing technical as well as common-sense information on the importance of your specifications. Available at [spxcooling.com](http://spxcooling.com).

The Marley UPDATE™ web-based application software provides model selections perfectly tuned to your cooling water system. Functions include model selection, specifications, model optimization, performance curves, engineering data, and free cooling applications. Available to both registered customers and guests at [spxcooling.com](http://spxcooling.com).

To find the Marley representative nearest you call 800 462 7539 or check the internet at [spxcooling.com/relocator](http://spxcooling.com/relocator)

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