

## X7™ Fan



The Marley® X7 fan is designed for induced-draft cooling tower applications, offering distinct advantages over other fan designs. The Marley FlareTip™ blade enhancement provides increased performance overcoming tip clearance losses—aiding the movement of air next to the fan cylinder.

The wide chord blade design is well suited for low noise operation as well, delivering superior air flow and pressure capability at reduced speed. The high performance X7 airfoil is one of the most efficient in the industry today.

The hollow 6063-T6 aluminum alloy extruded blade is designed with a deep section airfoil making the X7 robust, yet light and easy to handle. It also withstands the extreme heat and humidity imposed by the rigorous cooling tower environment.

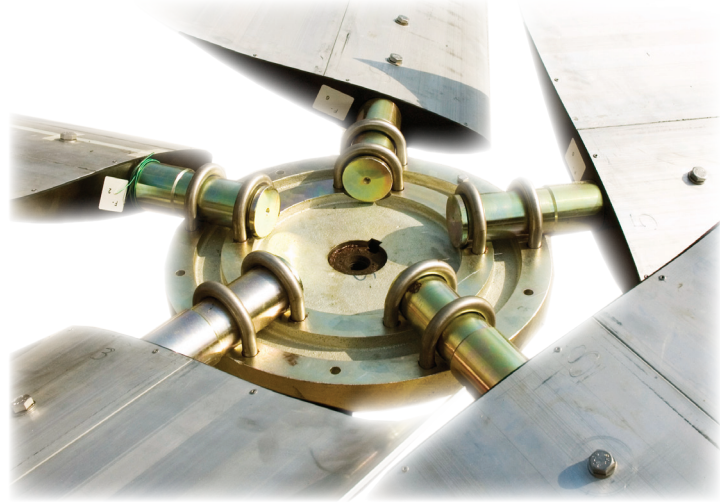
The blade end caps are injection molded impact-resistant, polypropylene with a section on the upper surface to allow for consistent fan pitch setting.

Additionally, all blades are match-moment weight balanced, allowing all X7 blades to be interchangeable without the need to rebalance the entire fan assembly.

Each blade is secured to the hub with two stainless U-bolts that allow blades to be easily rotated to adjust desired pitch angle, delivering precise utilization of fan horsepower.

Superior strength, excellent quality, light weight and outstanding performance makes the X7 fan an outstanding choice for cooling tower applications—and best of all it's made by Marley.

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### ■ High Efficiency

The aerodynamic design optimizes the performance characteristics of the X7 blade. The FlareTip design, adapted from the well-proven and highly successful Marley HP7i and HP7000 fiberglass fan blades, is a characteristic unique among extruded aluminum fan designs. The blade taper and flared tip reduce blade tip losses and distributes airflow evenly across the entire blade length, improving overall fan efficiency.

### ■ Lightweight

The single-piece X7 hub design was chosen specifically to work in a cooling tower environment at the common fan diameter range of factory-assembled package products. This optimization allowed for a significantly smaller overall hub compared to other manufacturer's offerings, yielding significant weight savings. Additionally, the simple and proven U-Bolt method of blade to hub connection results in a minimum quantity of hardware.

### ■ Corrosion Resistance

Marley X7 fans are designed for continuous duty in all cooling tower operating environments. Available in diameters from 66" through 168", the X7 utilizes a single-piece galvanized ductile iron hub with S300 U-bolts. Blade shanks are galvanized carbon steel, and all blade hardware is series 300 stainless steel. 316 stainless hardware and triple-epoxy hub coating is available as an option for more corrosive environments.

**SPX**<sup>®</sup>

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