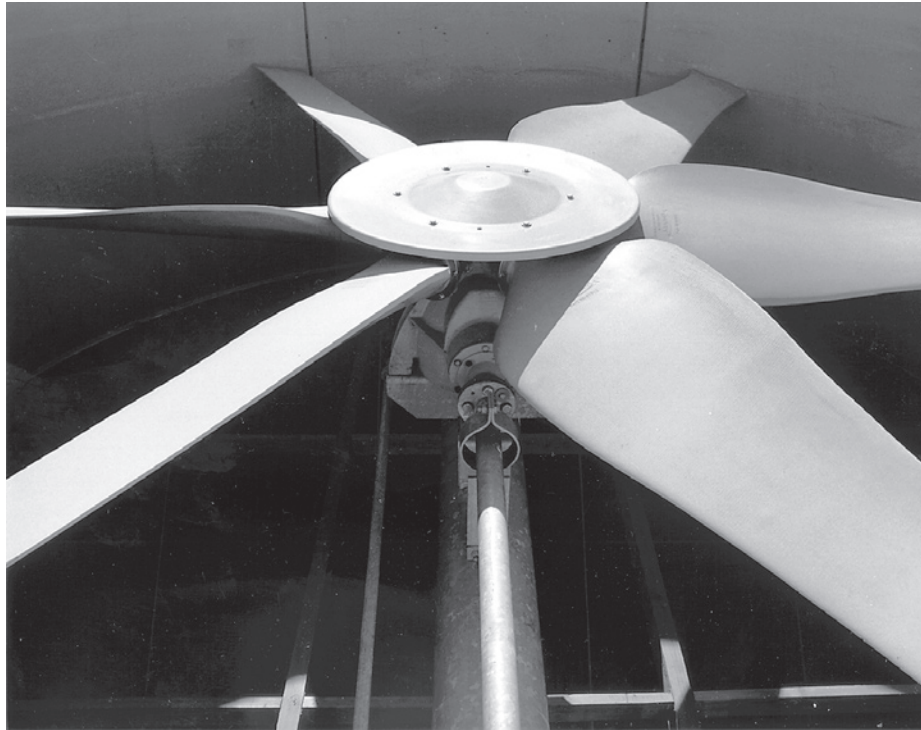


## **/ Marley HP7i Fan /**



Marley HP7i fans are designed specifically for cooling tower applications, offering distinct advantages over other types of fans. The Marley Flare Tip™ blade enhancement provides increased performance overcoming tip clearance losses, aiding the movement of air next to the fan cylinder. The wide blade design is well suited for low noise operation, delivering maximum air flow and pressure capability at reduced speed. The HP7i airfoil is the most efficient in the industry today.

The skin of the HP7i is made with top-quality fiberglass reinforced vinyl ester that is infused with pigment for even distribution across the laminate. There are multiple layers of surface veil on the blade surface leading to superior UV protection compared to fans with only a painted exterior. The HP7i also features a nylon barrier strip molded into the leading edge for additional long-term erosion protection against the corrosive and abrasive effects of cooling tower environments.

The hollow, thick section airfoil blade design makes the HP7i light and easy to handle. Constructed uniformly with a consistent moment weight, HP7i blades are easily interchangeable without the need to rebalance the entire fan assembly.

Blades attach to the fan hub using a heavy-galvanized iron ring integrally molded with each fan blade. By loosening the hub attachment hardware, blades can easily be rotated to achieve desired pitch permitting maximum utilization of fan horsepower.

Superior strength, excellent quality, light weight, plus unmatched aerodynamic performance make the Marley HP7i the fan of choice for today's cooling tower owners.



## / **Marley HP7i Fan** /



### / Suggested Specification /

#### ■ **Single Piece Construction –**

The HP7i blade is a single piece composite design ensuring structural integrity. Fan blades with bolted or glued connections between the blade shank and airfoil section introduce an additional mechanical joint under stress. The one piece composite design ensures the integrally molded leading-edge will not come off or fail and the blade will handle the toughest cooling tower applications.

#### ■ **Twisted Tapered Airfoil –**

This blade design optimizes the performance characteristic of the fan blade. To obtain the highest efficiency possible the HP7i airfoil compensates for low tangential speed near the blade root with a wider chord and increased angle of attack. An airfoil of constant cross section and no twist cannot match the HP7i efficiency. The result of the twisted tapered airfoil is greater cooling tower capacity without increased horsepower.

#### ■ **Heavy-duty Hub Assembly –**

Marley HP7i fans are designed for continuous duty in harsh cooling tower operating conditions. Up through 216" fan diameter the hub is epoxy coated cast iron. Larger diameters utilize a dual-plate hub assembly of heavy galvanized steel plates with epoxy coated cast iron hub and blade sockets. All hub hardware is series 300 stainless steel. 316 stainless and monel hardware material options are available for more severe duty.

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**SP-HP7i-C**