

# MESAN EVAPORATIVE COOLING PRODUCTS

## COOLING TOWER FEATURES:



### RUGGED CONSTRUCTION

MESAN is devoted to building the most robust, high quality cooling tower on the market. Every steel shipment undergoes strict metallurgy testing to ensure the steel is of proper quality and is free from defects. Each steel panel and every hole is laser cut in an automated process that safeguards against misalignment and sharp edges. Galvanized steel panels are cut to size prior to being galvanized in order to ensure a complete coating of the surfaces and edges. MESAN towers are only assembled with nuts and bolts, no self-tapping screws. This design ensures that the attachments do not wear away at the panels and loosen, leading to leaks and corrosion.

### FLEXIBILITY

MESAN offers a wide array of styles, sizes, and options to meet your project needs. Some popular options include: induced or forced draft configuration; cross flow or counter flow design; low height; galvanized; stainless steel or fiberglass construction; closed circuit fluid coolers; and ultra-low sound fan, to name a few. Because of MESAN's state of the art metal fabrication equipment, they are the only manufacturers in the market that can offer custom metal finishes and colors.

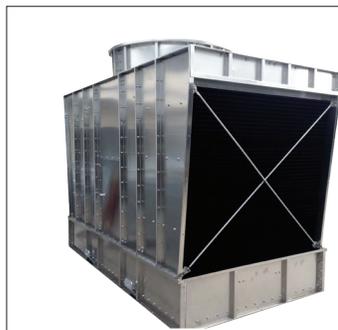


### DEPENDABLE DRIVE ASSEMBLY

Combining the advantages of a gear box with the inexpensiveness of a belt drive system, the MESAN drive assembly offers the best of both worlds. This robust design offers three or more heavy-duty bearings designed to support all the forces imposed on the drive assembly during operation. Two radial bearings reduce rotational friction and securely support the drive assembly, ensuring the shaft remains perfectly aligned. Unlike traditional cooling towers, the MESAN drive also includes radial bearings that support the full weight of the drive assembly and fan. The combination of axial and radial bearings ensures the drive assembly is free of stresses that reduce life span and lead to premature failure in traditional systems using pillow block bearings for support. The shaft and bearings are then concealed and permanently lubricated in a heavy-gauge housing that is completely sealed from the cooling tower discharge air.

### HIGH EFFICIENCY FAN DESIGN

Manufactured in their own state-of-the-art fan facility, MESAN offers an aerodynamic airfoil wide-chord blade design as standard. Installed in a cooling tower, the fans have an extremely high airflow to noise ratio. This results in a cooling tower with the highest combined thermal and energy efficiency, and consequently lowest energy consumption per ton. Combined with their single piece billet steel hub, the fans will afford year after year of worry free operation.



For over 40 years, the MESAN Group has engaged in the design and manufacturing of high quality, high efficiency evaporative cooling equipment for the Asian market. Now they are ready to bring a new era of competition to North America. Designed to exceed current industry standards for quality and performance, MESAN is poised to challenge the status quo. MESAN brings to market significant innovation to the design of cooling towers. Whether it's with their state-of-the-art drive system, low sound solutions, or energy efficient design; MESAN is leap-frogging the competition. MESAN towers are designed to meet thermal performance, low energy consumption, and environmental standards. The towers are manufactured under the strictest standard for quality and environmental control. MESAN has been awarded ISO-9001-2008 and ISO 14000 certification. The entire product line is certified through CTI-STD-201 and meets or exceeds ASHRAE 90.1-2010 efficiency requirements.