Marley cooling tower catalogue pdf









Highest Single Cell Cooling Capacity\*. The NC offers the highest tonnage per cell and the highest ASHRAE 90.1 performance available - up to 2189 tons (9614 kW). Independently Validated Sound Data. Marley towers are the only package cooling towers tested per CTI ATC-128 test code by third-party CTI-licensed test agents and certified acoustical engineers. NC sound levels are independently verified to meet published sound levels. Lower drift means less water escapes the tower, providing sound levels. Lower drift means less water escapes the tower, providing sound levels. Lower drift means less water escapes the tower, providing sound levels. Lower drift means less water escapes the tower, providing sound levels. Lower drift means less water escapes the tower, providing sound levels. Lower drift means less water escapes the tower, providing sound levels. Lower drift means less water escapes the tower, providing sound levels. Lower drift means less water escapes the tower drift means les mechanical and solid-state vibration switches ensure smoother start up, safe operation and long service life. Cold Water Basin Inlet Covers. New optional SunShield<sup>™</sup> Inlet Covers. New optional SunShield<sup>™</sup> Inlet Covers protect the cold water basin from sunlight and debris which can contribute to algae growth. The Marley NC Cooling Tower has set the standard for high efficiency and low maintenance since its introduction in 1968. Our nearly 100 years of cooling tower engineering know-how is utilized so that the NC Cooling Tower you select today provides the broadest range of configurations and the highest cooling tower. Available in a package cooling tower engineering know-how is utilized so that the NC Cooling Tower you select today provides the broadest range of configurations and the highest cooling tower. Marley NC Cooling Tower incorporates Marley-engineered components specifically designed for cooling tower service with time-tested tower design - a combination that has proven effective in thousands of cooling installations around the globe.\*As compared to other leading manufacturers.Factory Assembled Brand: MarleyCTI Certified OSHA Compliant FM APPROVED ASHRAE 90.1 compliant Eurovent certifiedFlow Rate: 303 - 6567 gpm(69-1492 m3/hr)Thermal Capacity: 101 - 2189 tons (444 - 9623 kW) per cellCrossflow Availability: Worldwide Low Operating Costs: Marley high-efficiency heat transfer media, fans, gravity-flow water distribution and efficient mechanical drive systems work together to offer maximum cooling with minimum power use. Extensive NC model configurations offer selection flexibility and value when evaluating first cost and life cycle cost options. Quiet By Design: All Marley NC Cooling Towers are designed for low sound levels using high efficiency low sound fans and heat transfer media with low splash noise characteristics. Sound data is developed and tested per CTI ATC-128 guidelines to ensure accuracy and data reliability. The Quiet Fan option provides sound levels that meet intermediate sound level requirements. Models are configured using premium efficiency motors, quiet gear drive reduction with matched gear sets and high solidity premium efficiency fans. The Ultra Quiet Fan option and Sound Attenuation components are designed for the most extreme sound level requirements. Long Life Construction: Rugged G235 heavy mill galvanized steel is standard; Series 300 stainless steel is an optional upgrade to the tower structure and includes a 5-year limited warranty. Marley Cooling Towers are manufactured in ISO-certified facilities, attesting to our commitment to comprehensive quality processes and systems. Performance for All Seasons: The Marley NC Cooling Tower is designed to operate year round as specified and will adapt to various energy-management approaches. Low Maintenance/Less Downtime: The Marley NC Cooling Tower can be maintained while operating, which translates to less downtime for mission-critical facilities. The water distribution system may be inspected and cleaned without turning off the pumps. The standard gear drive system is designed to operate a full five years without oil change or efficiency loss; comparable belt-drive systems require more frequent adjustment and replacement. AIR MOVEMENT PACKAGE Removable fan guard of welded, heavy gauge rods is hot dip galvanized after fabrication. Eased inlet fan cylinder ensures full area, low-turbulence airflow through the cylinder. High efficiency fan has wide chord design for maximum efficiency at low fan tip speeds. Marley System 5 Geareducer® driveRequires no oil changes for five full years, providing significant maintenance costs savings. Marley SofTork<sup>™</sup> MC coupling, designed specifically for Variable Frequency Drive (VFD) applications absorbs excessive shock loads at start-up. Marley Power Belt<sup>™</sup> drive, for models up to 60 hp, offers 40,000-hour bearing life and easy belt replacement.TEFC fan motor has 1.15 service factor and variable torque and is specially insulated for humid cooling tower duty and extended life.NC air movement package, including the structural support, is guaranteed against failure for five full years. The motor is separately warranteed by the motor manufacturer.WATER DISTRIBUTION SYSTEMMultiple piping options - the right connections for your application - include single inlet, dual inlet, top, side or bottom inlet, side outlet or bottom inlet, side outlet or bottom outlet. Gravity flow distribution systemAllows easy, nonrestrictive, on-line maintenance. Basin covers are standard and can serve as a walking surface with guardrail option. Marley Spiral Target polypropylene nozzles deliver precise distribution of water over the fill area. Marley MX thermoformed PVC film fillIs suspended from structural steel tubing. Integral louvers and eliminators keep circulating water confined to fill, even at low air rates. Drift Eliminators provide drift rates as low as 0.0005% of the design flow rate. STRUCTURECrossflow configuration provides easier and safer on-line maintenance. Steel construction - G235 (Z725) heavy mill galvanized steel is standard; Series 300 stainless steel is optional. Factory assembly ensures final field installation will be uncomplicated. The cooling tower can also ship in pieces for assembly on site. Two large access doors provide non-confining, quick visual inspection of cold water basin, internal structure, drift eliminators and mechanical equipment in the plenum area. QUALITY PARTSHigh efficiency axial fan, with adjustable-pitch blades, permits maximum utilization of rated horsepower and allows field adjustments to optimize performance. Marley System 5 Geareducer drive Requires no oil changes for five full years, the lowest maintenance requirements in the industry. Fewer oil changes reduce waste stream and environmental impact. Independent tests prove Marley Geareducer is up to 12 dBA quieter than gearboxes used by other cooling tower manufacturers. Fan motor is TEFC 1.15 service factor, horizontal-shaft motor designed to Marley specifications and specially insulated for humid cooling tower duty and extended life.SofTork MC couplingIs specifically designed for Variable Frequency Drive (VFD) operation.Forgives minor misalignment between the motor and Geareducer.Absorbs excessive shock loads at start-up.Five-year total mechanical equipment warranty includes mechanical equipment support and exclusive 5-year maintenance-free System 5 Geareducer.POPULAR OPTIONSSingle inlet connection, either side or bottom inlet, and all piping from the inlet connection, either sole or bottom. Ladder safety cages and ladder to elevated bar-grating platform with guardrail. Exterior platform Facilitates mechanical access loor platform with ladder and guardrail is available for outside motor option. Modular tower only. Outside motor location Is easily accessible and protects motor from constant high humidity present inside the tower plenum. Includes Marley full-floating stainless steel driveshaft. Variable flow distribution, including icing, fill scaling and erratic performance. Permits staging of chillers and pumps while efficiently circulating water over all cooling tower cells.Dramatically reduces fan horsepower for a given heat load.Factory-installed terminal control box provides a single location for all controllers that work in conjunction with process and building systems. Variable speed drive provides advanced temperature control, energy management, sound control and mechanical equipment longevity. Solid-state water level alarm and cutoff, and electric basin heater cutoff. Welded stainless steel collection basin All connection basin parts exposed to the circulating water are fabricated of heavy-gauge Series 300 stainless steel. Includes structural members projecting into basin, attaching hardware and all basin options including sumps. Stainless steel distribution basin provides long, trouble-free service life where corrosion is usually most aggressive. Galvanized steel tower option. Extended Geareducer oil line, located at fan deck level near the side of the tower, includes a dipstick to check oil level. Air inlet screens Keep the tower interior free of leaves and debris. Factory-installed, U-edged, galvanized wire mesh screens mount over the air inlets. Horizontal frame design allows easy access to the collection basins. ACCESS INFORMATION ABOUT THE MARLEY NC EVEREST COOLING TOWER HERE. Since it launched in 1968 for all applications, the Marley NC Cooling Tower has consistently demonstrated greater cooling capacity and energy efficiency, with independently verified sound data. Offering the highest tonnage per cell and the lowest measurable drift rates to keep your surroundings clean within the city that doesn't sleep, you can rely on the Marley NC to match your cooling requirements. Visible plume is a major concern in the high-density building environment that is New York City. Plume that obscures the view is not only aesthetically undesirable, but it can also create safety concerns. The Marley NCWD Cooling Tower is designed to reduce visible plume formation. Patented plume abatement technology offers the added benefit of water conservation. space is limited or restricted, the Marley MD Cooling Tower simplifies installation and maintenance for HVAC and industrial customers. Its compact design, lighter weight and single inlet connection make it a versatile option. The counterflow design also provides easy access to the collection basin from all sides. The factory-assembled Marley AV Cooling Tower is designed to minimize costs and maximize cooling tower performance through quick, easy installation, making it an excellent crossflow cooling tower replacement for some forced draft counterflow cooling tower installations. SPX Cooling Technologies, Inc., offers industry-leading Marley cooling towers and aftermarket parts that provide outstanding performance, quality and service providers to maintain most cooling tower designs and brands. Learn more about Marley components here. SPX Cooling Technologies, Inc., provides aftermarket parts for other cooling tower brands, including BAC and Evapco. Get back to your priorities and minimize maintenance requirements with high-quality Marley replacement components for non-Marley towers. Maintaining water chemistry is an essential part of an effective water management plan. The MarlevGard CD Chemical Delivery system is a robust control panel that facilitates delivery of cooling tower treatment agents. The MarleyGard SP Sweeper Piping System removes sediment and debris from cooling tower cold water basins to help prevent algae and bacteria growth. Constant enhancements have made the Marley Aquatower the product of choice in over 50,000 installations since 1947. PVC film enables the Aquatower to reject more heat per unit size, and integral air inlet louvers and drift eliminators save fan horsepower by maximizing airflow through the cooling tower. components are open to view. The Marley NC Everest Cooling Tower offers performance and features that tower above the rest. It is well-suited for both HVAC applications, reducing energy and installation costs for HVAC applications. With up to 50% greater cooling capacity, energy and installation savings, and fewer components and easier maintenance, you'll take cooling to great heights with the NC Everest. Suitable for HVAC and process cooling applications, the Marley MD Everest Cooling Tower takes cooling to a new altitude. Compared with other preassembled counterflow towers, it offers greater than 85% more cooling capacity per cell. It also delivers to the job site 60% faster and installs 80% quicker than field-erected options. The Marley MH Fluid Cooler remains one of the most efficient systems and best choices for HVAC and industrial closed-loop applications. By keeping the process fluid in a clean, closed loop, and combining the function of a cooling tower and heat exchanger into one system, the MH Fluid Cooler provides superior operational and maintenance benefits. Its hybrid design combines heat transfer fill media and heat exchange coils to significantly improve performance over conventional closed-circuit coolers. Available in flow rates of 15, 35, 65, 100, 140, 190 and 250 GPM. Positive filtration down to 10-micron. (lower micron media available). Non-code 304-stainless steel vessel available). Available in multiple footprints, the Marley LW Fluid Cooler is an induced-draft counterflow fluid cooler utilizing patent-pending heat transfer technology. Its closed-circuit design keeps the process fluid in a clean, closed loop. The LW Fluid Cooler's lower height and quiet operation also addresses many municipal restrictions. Installation and maintenance advantages include one-piece assembly, requiring a single lift and fully integrated factory controls. The Recold JW is a quiet, forced draft fluid cooler with a lighter weight, corrosion resistant copper coil. Its low profile design simplifies integration into existing building mechanical systems and can be placed indoors or out. Quality materials and construction provide many years of reliable operation with minimal maintenance requirements. For refrigeration applications, the Recold V Tech Adiabatic Cooling System enhances the utility of an air-cooled system with the efficiency boost of a wet system during peak conditions, providing lower energy usage and smaller footprint than an air-cooled condenser and lower site water usage than an evaporative condenser.

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