



MRT SERIES
MOBILE COOLING TOWER



500-Ton Model ◀◀

MRT SERIES 500-TON MODEL



The MRT series is a mobile cooling tower mounted on a step deck trailer, allowing it to be transported to any location to respond to emergency needs such as: *replacements, planned maintenance or unexpected shutdowns.*

GENERAL CHARACTERISTICS

- Cooling Capacity of 1,500 gpm (500 tons) at nominal conditions.
 - Multiple MRT units can be joined together to meet higher capacity requirements.
- Suitable for both HVAC and industrial applications.
- High performance EC Fan assemblies.
- 48' Step Deck trailer for transportation (included or provided by others).
- An **internal dividing wall** that allows the tower to operate as two independent cells.



Ready to use: Ships fully assembled and includes unique features for a quick start.

- ✓ Control Module that supports BACnet/IP protocol to monitor temperature and fan motor status.
- ✓ 150 kVA three phase transformer.
- ✓ Hoses for hot water inlet, cold water outlet and pumps.
- ✓ Storage boxes for hoses and fittings.
- ✓ Optional: Skid with pumps.

CONSTRUCTION & COMPONENTS

TOWER DESCRIPTION

- Factory assembled Mobile Cooling Tower, open circuit, induced draft, counter flow.
- Highly durable construction materials:
 - Corrosion resistant FRP casing and structure.
 - The most reliable non-corroding PVC water distribution system with non-clogging spray nozzles.
 - Fill Media, Drift Eliminators & Louvers manufactured in corrosion resistant self-extinguishing PVC.
 - Seamless body-basin section - no water leaks.
- Direct-drive system with EC fan motors.

COMPONENTS



EC FAN MOTORS

The high performance EC fans assemblies are equipped with permanent magnet, electronically commutated (EC) motors, non-adjustable-pitch fan blades manufactured of aluminum.



BACNET CONTROL PANEL

Outlet water temperature parameters can be easily configured through a control module and an externally mounted **Touch Screen**.

- The module supports MS/TP and **BACnet/IP protocols** to manage temperature, motor and alarm operation. It can be remotely monitored.
- Control module is protected in a NEMA 4X stainless steel housing.



MAIN CONTROL PANEL

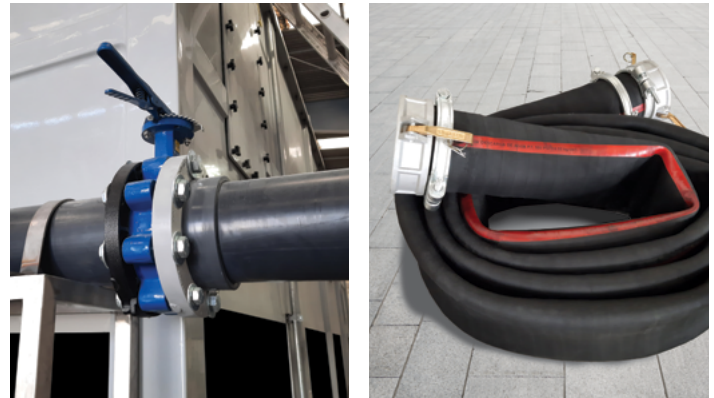
Main Control Panel that supplies power to all devices in the tower, with a Single Point Power Supply. NEMA 3R protection.

CONSTRUCTION & COMPONENTS



STORAGE BOXES

- Stainless steel boxes for storage of piping, hoses, valves and fittings.



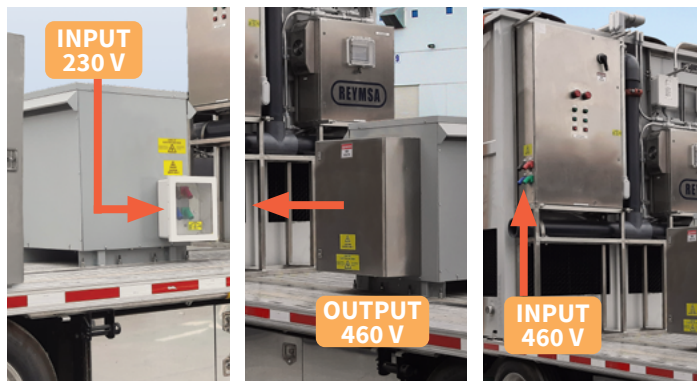
HOSES & FITTINGS

- Hoses and fittings for water inlet, outlet and pumps.



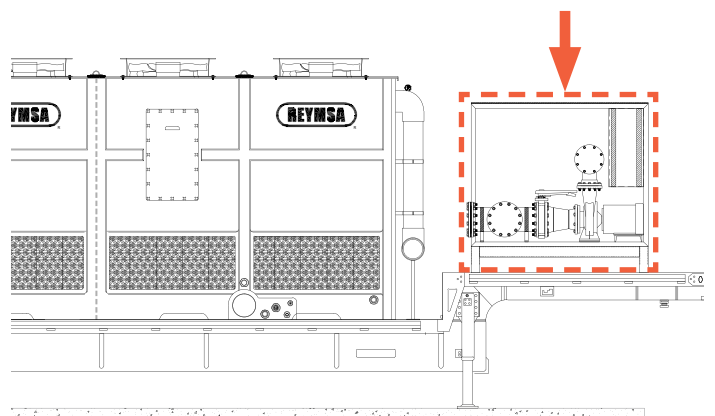
BASIN HEATERS

The cooling tower is provided with basin heater systems and NEMA 4X enclosure for the control panels, designed for wet outdoor use.



3-PHASE TRANSFORMER


The 150 kVA transformer is outdoor rated and includes a gray steel enclosure, Nema 3R. It can connect to 230 V CA and output 460 V CA to power the Main Panel.



SKID WITH PUMPS (Optional)

To facilitate deployment and start-up of the cooling tower, a skid with pumps can be supplied. Two pumps for water outlets and one pump for redundancy.

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