

## GENIUS · FRP COOLING TOWERS

# Genius Cooling Towers

FRP counter-flow and cross-flow towers, 10–1500 TR, plus infill, nozzles, fans and motors.

Supplied, installed and serviced in Bangladesh by MHM Engineering



## FILL

**PVC  
honeycomb  
film**

## TYPES

**Counter-flow,  
cross-flow**

## CASING

**FRP,  
galvanised  
steel**

## APPROACH

**3–4 °C**

## FAN DRIVE

**Direct / belt,  
VFD option**

## CAPACITY

**RANGE  
10–1500 TR**

## Overview

Cooling towers reject heat from water-cooled chillers, moulding machines, furnaces and generators. MHM assembles round FRP counter-flow towers in Mirpur and supplies square cross-flow towers for large plants, along with Genius and Newin towers. Genuine infill, sprinklers, nozzles, fan blades and motors are stocked for every model.

Genius — FRP cooling towers. MHM Engineering is the supply, installation and service partner in Bangladesh: selection at local ambient and water conditions, commissioning by our own engineers and spares stocked in Dhaka.

## Range

### Counter-flow round FRP

Bottle-type towers with rotary sprinkler, 10–1000 TR.

### Cross-flow square

Multi-cell towers with gravity basins, 50–1500 TR per cell.

### Tower spare parts

Infill, nozzle, sprinkler, fan, motor and piping.

## Why plants choose Genius from MHM

- **Assembled in Bangladesh** — Shorter lead time and local structural steel to your roof loading.
- **Close approach** — 3–4 °C approach to wet-bulb even in June.
- **Low drift** — PVC eliminators keep drift under 0.01%.
- **Overhaul service** — Drain, descale, re-fill and rebalance in one shift.

## Applications

- Water-cooled chiller plants
- Injection moulding
- Steel re-rolling
- Generator cooling
- Air compressors
- Chemical process

## MHM FRP Counter-Flow Cooling Tower — MHM · MCT-R Series



Round bottle-type FRP counter-flow tower, 10–1000 TR, rotary sprinkler, PVC infill.

|                |                             |
|----------------|-----------------------------|
| Capacity range | 10–1000 TR                  |
| Type           | Counter-flow, induced draft |
| Casing         | FRP, UV-stabilised          |
| Fan motor      | 0.75–22 kW IP55             |
| Origin         | Assembled in Bangladesh     |

| Model     | Capacity (TR) | Water flow (m³/h) | Fan dia (mm) | Motor (kW) | Dia × H (mm) | Dry weight (kg) |
|-----------|---------------|-------------------|--------------|------------|--------------|-----------------|
| MCT-R-050 | 50            | 39                | 1200         | 1.5        | 1900 × 2600  | 380             |
| MCT-R-100 | 100           | 78                | 1500         | 2.2        | 2600 × 3000  | 640             |
| MCT-R-200 | 200           | 156               | 2100         | 5.5        | 3600 × 3600  | 1150            |
| MCT-R-300 | 300           | 234               | 2400         | 7.5        | 4300 × 3900  | 1650            |
| MCT-R-500 | 500           | 390               | 3000         | 11         | 5500 × 4400  | 2700            |
| MCT-R-800 | 800           | 624               | 3600         | 18.5       | 6900 × 5200  | 4300            |

## MHM Cross-Flow Cooling Tower — MHM · MCT-X Series

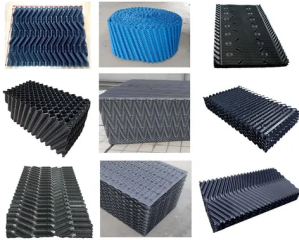


Square cross-flow tower, 50–1500 TR per cell, low pump head, easy hot-basin cleaning.

|                   |                           |
|-------------------|---------------------------|
| Capacity per cell | 50–1500 TR                |
| Type              | Cross-flow, induced draft |
| Basin             | Gravity hot-water basin   |
| Fan motor         | 2.2–37 kW                 |
| Origin            | Assembled in Bangladesh   |

| Model      | Capacity (TR) | Water flow (m³/h) | Fan dia (mm) | Motor (kW) | L × W × H (mm)     | Dry weight (kg) |
|------------|---------------|-------------------|--------------|------------|--------------------|-----------------|
| MCT-X-100  | 100           | 78                | 1500         | 3          | 2400 × 2400 × 3200 | 950             |
| MCT-X-250  | 250           | 195               | 2400         | 7.5        | 3600 × 3600 × 3800 | 2100            |
| MCT-X-500  | 500           | 390               | 3000         | 15         | 4800 × 4800 × 4400 | 3900            |
| MCT-X-800  | 800           | 624               | 3600         | 22         | 6000 × 6000 × 4800 | 6100            |
| MCT-X-1500 | 1500          | 1170              | 4800         | 37         | 8400 × 8400 × 5600 | 11200           |

## Cooling Tower Spare Parts Kit — MHM · Genuine Spares



Infill, nozzles, sprinklers, fans, motors and piping for MHM, Genius and Newin towers.

Infill **PVC 0.38 / 0.5 mm**

Nozzles **PP, 25–65 mm**

Sprinkler **ABS rotary head**

Fan blades **Aluminium alloy**

Origin **MHM / Genius / Newin**

| Part code              | Item                          | Fits tower       | Material        | Unit |
|------------------------|-------------------------------|------------------|-----------------|------|
| <b>MHM-SP-INF-050</b>  | Infill block 300 × 300 × 1000 | MCT-R 10–100 TR  | PVC 0.38 mm     | pc   |
| <b>MHM-SP-INF-100</b>  | Infill block 300 × 300 × 1500 | MCT-R 100–500 TR | PVC 0.5 mm      | pc   |
| <b>MHM-SP-SPR-3</b>    | Rotary sprinkler head 3 in    | MCT-R 50–200 TR  | ABS / SS304     | set  |
| <b>MHM-SP-NOZ-40</b>   | Spray nozzle 40 mm            | MCT-X all        | PP              | pc   |
| <b>MHM-SP-FAN-1500</b> | Fan blade set 1500 mm         | MCT-R/X 100 TR   | Aluminium alloy | set  |
| <b>MHM-SP-MOT-055</b>  | Tower motor 5.5 kW 6P         | MCT-R 200 TR     | IP55, class F   | pc   |

### Talk to an MHM engineer

+880 1321-206755 · [sales@mhmmachineries.com](mailto:sales@mhmmachineries.com) · 846, East Shewrapara, Mirpur, Dhaka-1216, Bangladesh. Site survey, load calculation and a written proposal are free for plants in Bangladesh.