

# Closed Cross-Flow Cooling Tower (TC-CTX Series)

Models: TC-CTX-031 to TC-CTX-398 (31 – 398 RT)



### PRODUCT OVERVIEW

Cooling capacity from 31 to 398 tons; multiple units can be combined for larger loads. Casing in magnesium-aluminum-zinc coated or stainless steel plate; coils in stainless steel or red copper; PVC fill. All materials are industrial grade with excellent corrosion resistance.

### OPERATING PRINCIPLE

Induced-draft cross-flow tower: air enters through the side intake grille, passes through spray water and flows horizontally across the coils and fill, then is exhausted by the top fan, continuously removing heat from the fluid in the closed loop.

### PRODUCT SPECIFICATIONS

| Model      | RT  | Fan kW | Fan Air (m³/h) | Pump kW | Pump Flow (m³/h) | Inlet   | Outlet  | Make-up | Overflow & Drain | L (mm) | W (mm) | H (mm) | Net (kg) | Operating (kg) |
|------------|-----|--------|----------------|---------|------------------|---------|---------|---------|------------------|--------|--------|--------|----------|----------------|
| TC-CTX-031 | 31  | 0.75×2 | 13000×2        | 1.1     | 35               | DN80    | DN80    | DN25    | DN40             | 2700   | 1600   | 2550   | 1320     | 2720           |
| TC-CTX-043 | 43  | 1.1×2  | 16000×2        | 1.1     | 40               | DN80    | DN80    | DN25    | DN40             | 2800   | 1650   | 2550   | 1650     | 3050           |
| TC-CTX-052 | 52  | 1.5×2  | 20000×2        | 1.5     | 55               | DN80    | DN80    | DN25    | DN40             | 2800   | 2000   | 2650   | 1850     | 3550           |
| TC-CTX-061 | 61  | 1.5×2  | 22000×2        | 1.5     | 65               | DN100   | DN100   | DN25    | DN40             | 2800   | 2000   | 2650   | 2160     | 3860           |
| TC-CTX-079 | 79  | 2.2×3  | 32000×3        | 2.2     | 80               | DN100   | DN100   | DN25    | DN40             | 3400   | 2200   | 2750   | 2650     | 4850           |
| TC-CTX-098 | 98  | 2.2×3  | 36000×3        | 2.2     | 110              | DN100   | DN100   | DN32    | DN40             | 4500   | 2400   | 3300   | 3140     | 6440           |
| TC-CTX-122 | 122 | 3×3    | 45000×3        | 2.2     | 110              | DN125   | DN125   | DN32    | DN40             | 4500   | 2400   | 3300   | 3400     | 6700           |
| TC-CTX-132 | 132 | 3×3    | 45000×3        | 3       | 140              | DN125   | DN125   | DN32    | DN40             | 4500   | 2400   | 3300   | 3830     | 7130           |
| TC-CTX-152 | 152 | 4×3    | 53000×3        | 3       | 150              | DN150   | DN150   | DN40    | DN40             | 4500   | 2700   | 3450   | 4040     | 7840           |
| TC-CTX-180 | 180 | 4×3    | 59000×3        | 4       | 180              | DN200   | DN200   | DN40    | DN40             | 4500   | 2700   | 3450   | 4250     | 8050           |
| TC-CTX-213 | 213 | 4×3    | 68000×3        | 5.5     | 210              | DN200   | DN200   | DN40    | DN50             | 4500   | 2700   | 3450   | 4580     | 8280           |
| TC-CTX-244 | 244 | 4×4    | 59000×4        | 5.5     | 250              | DN150×2 | DN150×2 | DN40    | DN50             | 5450   | 2700   | 3450   | 4930     | 9630           |
| TC-CTX-274 | 274 | 4×4    | 68000×4        | 5.5     | 250              | DN150×2 | DN150×2 | DN40    | DN65             | 5450   | 2700   | 3520   | 5120     | 9850           |
| TC-CTX-305 | 305 | 4×4    | 76000×4        | 7.5     | 270              | DN150×2 | DN150×2 | DN40    | DN65             | 5800   | 2900   | 3520   | 5590     | 10590          |
| TC-CTX-335 | 335 | 4×4    | 76000×4        | 7.5     | 300              | DN150×2 | DN150×2 | DN40    | DN65             | 5800   | 2900   | 3520   | 5710     | 10710          |
| TC-CTX-360 | 360 | 5.5×4  | 83000×4        | 7.5     | 300              | DN150×2 | DN150×2 | DN40    | DN65             | 6400   | 2900   | 3570   | 6500     | 12300          |
| TC-CTX-398 | 398 | 5.5×4  | 85000×4        | 7.5     | 300              | DN200×2 | DN200×2 | DN40    | DN65             | 6400   | 3000   | 3570   | 6820     | 12820          |

Note: RT = nominal cooling capacity in refrigeration tons.

### APPLICATIONS

Data Center Cooling Source

Liquid Cooling Primary Loop

Industrial Process Cooling