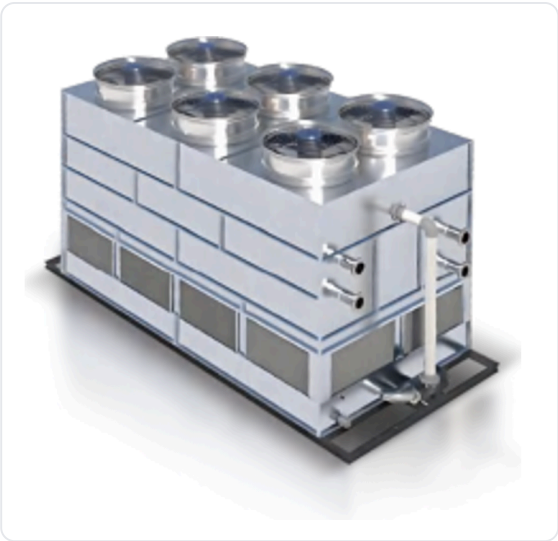


# Counterflow Closed Cooling Tower (TC-CTC Series)

Models: TC-CTC-006 to TC-CTC-440 (6 – 440 RT)



### PRODUCT OVERVIEW

Cooling capacity from 6 to 440 nominal tons. Shell in magnesium-aluminum-zinc coated plate or stainless steel; coils in stainless steel or red copper. Compact structure with a smaller footprint and no pre-cooling fill, making it ideal for high-temperature process fluids. Custom dimensions are available to fit container transport.

### OPERATING PRINCIPLE

Air enters through the surrounding louvers and is drawn vertically upward by the top fan across the heat exchange surface, counter to the spray water, 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-CTC-006 | 6   | 0.55   | 10000          | 0.75    | 20               | DN50    | DN50    | DN20    | DN32             | 1550   | 1000   | 2145   | 430      | 890            |
| TC-CTC-010 | 10  | 0.55   | 10000          | 0.75    | 20               | DN50    | DN50    | DN20    | DN40             | 1550   | 1000   | 2145   | 490      | 1150           |
| TC-CTC-017 | 17  | 0.75×2 | 13000×2        | 0.75    | 20               | DN65    | DN65    | DN20    | DN40             | 2350   | 1100   | 2265   | 500      | 1480           |
| TC-CTC-024 | 24  | 0.75×2 | 13000×2        | 0.75    | 25               | DN65    | DN65    | DN25    | DN40             | 2350   | 1100   | 2265   | 550      | 1610           |
| TC-CTC-031 | 31  | 1.5×2  | 20000×2        | 1.1     | 35               | DN80    | DN80    | DN25    | DN40             | 2800   | 1300   | 2702   | 710      | 1700           |
| TC-CTC-043 | 43  | 1.5×2  | 22000×2        | 1.1     | 35               | DN80    | DN80    | DN25    | DN40             | 2800   | 1300   | 2702   | 800      | 1800           |
| TC-CTC-052 | 52  | 1.5×2  | 22000×2        | 1.5     | 65               | DN100   | DN100   | DN25    | DN40             | 2800   | 1500   | 2952   | 930      | 2100           |
| TC-CTC-061 | 61  | 1.5×2  | 22000×2        | 1.5     | 65               | DN100   | DN100   | DN25    | DN40             | 2800   | 1500   | 2952   | 990      | 2200           |
| TC-CTC-079 | 79  | 2.2×2  | 32000×2        | 2.2     | 100              | DN100   | DN100   | DN25    | DN40             | 2800   | 1700   | 2952   | 1200     | 2550           |
| TC-CTC-098 | 98  | 3×2    | 45000×2        | 2.2     | 100              | DN100   | DN100   | DN32    | DN50             | 3200   | 2000   | 3252   | 1580     | 3180           |
| TC-CTC-122 | 122 | 3×2    | 45000×2        | 2.2     | 110              | DN125   | DN125   | DN32    | DN50             | 3200   | 2000   | 3252   | 1750     | 3350           |
| TC-CTC-132 | 132 | 3×2    | 49000×2        | 2.2     | 110              | DN150   | DN150   | DN32    | DN50             | 3550   | 2000   | 3252   | 2230     | 4130           |
| TC-CTC-152 | 152 | 4×2    | 53000×2        | 3       | 150              | DN150   | DN150   | DN40    | DN65             | 4200   | 2000   | 3612   | 2045     | 4345           |
| TC-CTC-180 | 180 | 5.5×2  | 61000×2        | 4       | 180              | DN200   | DN200   | DN40    | DN65             | 4200   | 2000   | 3612   | 2250     | 5050           |
| TC-CTC-213 | 213 | 5.5×2  | 61000×2        | 4       | 180              | DN200   | DN200   | DN40    | DN65             | 4200   | 2000   | 3612   | 2520     | 5420           |
| TC-CTC-244 | 244 | 7.5×2  | 130000×2       | 5.5     | 230              | DN200   | DN200   | DN40    | DN65             | 5100   | 3000   | 4356   | 3080     | 7580           |
| TC-CTC-274 | 274 | 7.5×2  | 140000×2       | 7.5     | 270              | DN250   | DN250   | DN40    | DN65             | 5100   | 3000   | 4356   | 3660     | 8160           |
| TC-CTC-305 | 305 | 7.5×2  | 140000×2       | 7.5     | 270              | DN250   | DN250   | DN50    | DN65             | 5100   | 3000   | 4356   | 4050     | 8680           |
| TC-CTC-335 | 335 | 11×2   | 150000×2       | 4×2     | 360              | DN250   | DN250   | DN50    | DN65             | 6000   | 3000   | 4474   | 5290     | 9890           |
| TC-CTC-360 | 360 | 11×2   | 150000×2       | 4×2     | 360              | DN250   | DN250   | DN50    | DN65             | 6000   | 3000   | 4474   | 5470     | 10070          |
| TC-CTC-398 | 398 | 15×2   | 170000×2       | 5.5×2   | 460              | DN200×2 | DN200×2 | DN50    | DN65             | 6600   | 3000   | 4550   | 5700     | 11900          |
| TC-CTC-440 | 440 | 15×2   | 170000×2       | 5.5×2   | 460              | DN200×2 | DN200×2 | DN50    | DN65             | 6600   | 3000   | 4550   | 5990     | 13500          |

Note: RT = nominal cooling capacity in refrigeration tons.

### APPLICATIONS

Data Center Cooling Source

High-Temperature Process Fluid

Containerized Deployment