

WaterCool

# Chiller Water Tank

Cooling Capacity 10.5kW



Shower



Wash Dishes



Cool & Comfort Wash

Enjoy the Comfort of Cooling Running Water  
Even When It's 52 °C Outside Temperature



50 Hz

RESIDENTIAL WATER TANK CHILLER

## CHILLER WATER TANK

COOLEX WATER TANK CHILLER (CWTC) is specially designed and engineered for water temperature control to cool water tank for gulf's extremely high climatic conditions. The unit works as a cooler in summer offering the most energy efficient chillers.

### Standard Feature

#### COMPRESSOR

The compressor are high efficiency scroll hermetically sealed type. The compressor are equipped with internal motor protector and necessary accessories for safe operation.



#### EVAPORATOR

High efficiency DX Brazed Plate Heat Exchanger (BPHE) cooler consists of thin corrugated stainless steel plates vacuum brazed together using copper as the brazing material. Although ideal for numerous applications. Plates are brazed at all contact points, ensuring optimal heat transfer efficiency and pressure resistance. The plates are designed to provide the longest possible lifetimes.



#### CONDENSER COIL

The coils are built up seamless copper tubes and mechanically bonded to scientifically designed aluminum fins for maximum heat transfer efficiency. The assembled coils are factory leak tested under water at a pressure of 700 psig for quality and leak free unit.



CWTC chillers were designed and manufactured to provide cool water tank, you can enjoy the comfort of cooling running water from every water source in your home. Made from the optimum performance, high efficiency, reliability, easy installation and lighter in weight.

#### CONDENSER FAN MOTOR

Condenser fan motors are totally enclosed air-over type with class F insulation. The motors are provided with inherent thermal protection and auto rest type.



#### CONDENSER FANS

The fans are selected for optimum efficiency and maximum sound power reduction, propeller type and direct driven, upward discharge and provided with fan grille mounted on the casing.

#### WATER PUMP

Volumetric water pumps able to offer high pressures in relation to comparatively low powers and which have particularly steady operating curves. They are qualified in domestic fittings, to increase the system pressure in aqueducts and for automatic water distribution by small autoclave tanks or by hydrosphere units. For the correct functioning of the pump, use clean water, or non-aggressive liquids only, without sand or other solid impurities.



- Water tank capacity range up to 1000 US gallon.
- Compatible for all types of tanks.

- Microcontroller chiller control for cooling with precise analogue control.
- Easy to install and maintain.

## General Specification

| PHYSICAL DATA                     |                |                                     |                                                              |
|-----------------------------------|----------------|-------------------------------------|--------------------------------------------------------------|
| Description                       | ----           | Water Tank Chillers - Top Discharge |                                                              |
| Unit Model                        | ----           | CWTC-030F7D                         |                                                              |
| Unit Type                         | ----           | Water Cooler                        |                                                              |
| Nominal Cooling Capacity          | TR / (kW )     | 3 / (10.5)                          |                                                              |
| Rated Input Power                 | kW             | 5.0                                 |                                                              |
| Ambient Temperature Range         | °C             | 35 ~ 52                             |                                                              |
| Rated Outlet Water Temperature    | °C             | 29 ±1.0                             |                                                              |
| Nominal Water Tank Capacity Range | Gal/Ltr        | 500 - 1000/1893 - 3785              |                                                              |
| Compressor                        | Power Supply   | V/Ph/Hz                             | 220-240/1/50                                                 |
|                                   | Type           | ----                                | Fully Hermetic Scroll                                        |
|                                   | Quantity       | nos                                 | 1                                                            |
| Refrigerant                       | Type           | ----                                | R410A                                                        |
| Number of Refrigeration Circuits  | nos            | 1                                   |                                                              |
| Condenser Axial Fan Motor         | Type           | ----                                | Propeller Direct Driven (Axial)                              |
|                                   | Power Supply   | V/Ph/Hz                             | 220-240/1/50                                                 |
|                                   | Air Discharge  | ----                                | Top Discharge                                                |
| Condenser Coil                    | Coil Type      | ----                                | Coated Louvered Aluminum Fins & Internal Grooved Copper Tube |
| Evaporator                        | Coil Type      | ----                                | Brazed Plate Heat Exchanger (BPHE)                           |
| Water Pump                        | Pump Type      | ----                                | Volumetric Pump                                              |
| Water Connection                  | Inlet & Outlet | mm                                  | CPVC Pipe (OD32.0 & OD25.0)                                  |
| Unit Dimensions (LxWxH)           | mm             | 700.0 x 700.0 x 670.0               |                                                              |

### NOTE:

Capacity ratings Tons (kW) are based on 82.4°F (28°C) chilled water outlet with (0.0001 ft<sup>2</sup>.hr.°F/Btu) fouling factor @ ambient temperature of 118.4°F (48°C).

COOLEX reserves the rights to update/change in part or as a whole the specifications of the product for the purpose of product improvement and enhancement. Therefore the above information is subject to changes without prior notice.



شركة صناعات التبريد والتخزين والخدمات النفطية

Refrigeration Industries & Storage and Oil Services Co. KSC





**COOLEX**  
COMFORT BEYOND EXPECTATIONS

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