

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

TABLE OF CONTENT

ABOUT RIC

03

STANDARD FEATURE

04

GENERAL SPECIFICATION

05

ABOUT THE COMPANY

Refrigeration Industries & Storage and Oil Services Company, occupies a leading position as one of the largest industrial companies in Kuwait which was established in 1973. It plays a proactive role in providing various services and diverse activities such as manufacturing, storage, and oil services to meet the needs of customers both inside and outside Kuwait.

Since its inception, RIC has been committed to excellence and advancing its progress, leading to the establishment of the brand (Coolex) in 1986, a true milestone in the Kuwaiti market as the first in the region in the sector of air conditioning systems manufacturing and cooling solutions.

Furthermore, the company has consistently empowered its workforce, enhanced safety and competitiveness, and utilized innovative technologies to launch new products that meet the needs of various sectors, contributing to the company's expansion and supporting growth and prosperity.

To ensure the highest performance in the future, RIC harnesses its continuous research to enhance efficiency and quality, while continuing its efforts to manufacture products capable of adapting to climate, environmental, and energy challenges.



Facts throughout the years

- 1973 Warehouses were established by Amiri Decree.
- 1979 RIC constructed the Medical Cold Stores Complex, the world's largest at that time.
- 1980 RIC Air Conditioning manufacturing plant set up in Sulaibya.
- 1981 Production of Package & Mini-Split A/Cs started under York-Gulf.
- 1984 RIC was listed in Kuwait Stock Exchange.
- 1986 COOLEX brand production Launched.
- 1991 RIC rebuilt the manufacturing plant destroyed during the war.
- 1997 Achieved ISO Certification ISO 9001:1994.
- 2002 ETL Designed testing lab became fully operational.
- 2004 Privatization of RIC.
- 2010 COOLEX becomes the first A/C Unit to Pass MEW's new regulations.
- 2010 RIC Factory Renovation and Expansion into neighboring countries.
- 2012 Achieved UL & AHRI Certification for Coolex Units.
- 2014 Achieved SASO Certification for Concealed Ducted Split Series.
- 2014 Achieved EUROVENT Certification for Air Handling Units AHU.
- 2014 Achieved UL Certification for Air Cooled Chillers.
- 2015 Achieved ISO 17025 Certification for Psychrometric Laboratory.
- 2016 Achieved Energy Efficiency Certification for Concealed Ducted Split Series & Rooftop Package units (Kingdom of Bahrain).
- 2016 Acquisition of Gulf Paramount for Electrical Services Company.
- 2021 Acquisition of Kuwait Pipes Industries & Oil Services factory, resulting in a change of the company's name from Refrigeration Industries & Storage Co. to Refrigeration Industries & Storage and Oil Services Co.

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.

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.

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.



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.



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 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.



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.



- 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 ft².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

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