

# HEAT PUMP WATER TANK

Water Tank Capacity 300L



Shower



Wash Dishes



Cool & Heat Comfort Wash

**R134A**

Enjoy the Comfort of Cooling & Heating Running Water Even When It's Summer or Winter Season

**50 Hz**

**DOMESTIC HEAT PUMP WATER TANK**

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## ABOUT THE COMPANY

Refrigeration Industries & Storage and Oil Services Company, occupies a leading position as one of the largest industrial companies in Kuwait which 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 manufacturing air conditioning systems 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 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.

## HEAT PUMP WATER TANK

COOLEX HEAT PUMP WATER TANK HEATING AND COOLING (HPWA) is specially designed and engineered for water temperature control either to heat or to cool water for the different climate conditions. The unit works as a water heater or cooler or in combination during summer or winter conditions offering the most energy efficient heat pump system.

### Standard Features

#### COMPRESSOR

The compressor is a high efficiency rotary type equipped with internal motor protector and necessary accessories for safe operation.



#### EVAPORATOR/ 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 450 psig for quality and leak free unit.



#### FAN MOTOR

Asynchronous motors are known for their simplicity, ruggedness, and reliability. They have a relatively low cost of manufacturing and maintenance. These motors do not require brushes or a commutator, reducing wear and tear.



#### REVERSING VALVE

Reversing Valves switch between cooling and heating mode by changing the flow of the refrigerant. The solder connection at the pilot tube and valve allows for increased reliability and low leakage probability.



#### SOLENOID VALVE

Solenoid valves are provided to control the refrigerant flow during the use of combination heating and cooling providing an efficient system control and energy efficient heat pump system.



- Water tank capacity 300L.

HPWA heat pump were designed and manufactured to provide either heating and cooling water tank, you can enjoy the comfort of heating & cooling running water from every water source in your home. Designed for optimum performance, high efficiency, reliability and easy installation.

#### INTELLIGENT MICRO-CHANNEL STABLE AND HIGH EFFICIENT

Using multi-variable micro-channel technology and flexible lamination technology, the heat exchange area is larger, the heat transfer effect is better, and the system energy efficiency is higher, the heat exchanger does not come into contact with the water in the water tank, and there is no corrosion, scaling, or leakage. The whole body is made of high-pressure foam, and the insulation layer is fine, uniform, and tight, and the insulation effect is better. The blue diamond specially protected inner tank has passed 280,000 pressure pulse test and has stable performance.

- **Sufficient Magnesium Anode Rod** protect water tank improve anti-corrosion ability.

- **Enameled Inner Tank** Enjoy Surging healthy Water

Enameled tanks have the advantages of corrosion resistance and high temperature resistance, which solve the industry pain points such as short service life and unstable performance of air source heat pump water heaters and are suitable for various water qualities.

- **Micro-channel** The overall heating speed is increased by 10%. 8% energy saving than ordinary heat pump water heater.

#### MICROCONTROLLER PANEL DISPLAY

Easy to use control display for selecting the different modes and set points of the heat pump water heater/cooler. We can control the set point of Water Heating or Cooling using this board. This board is equipped with touch sensor. Using, this touch sensor, we can turn ON/OFF and Increase/Decrease the set point.

- Easy to install and maintain.



**SPACE, AIRFLOW AND VENTILATION**

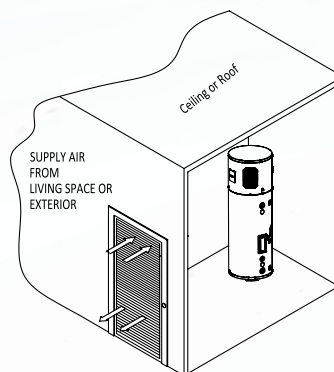
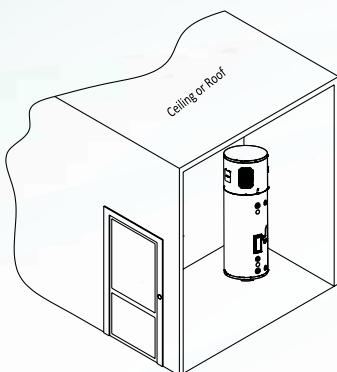
**Best performance and recommendation**

Place the water tank at a distance from your bedrooms, the living room, and other gathering places. The easiest installation projects make use of sufficient space room in a basement, a garage, or a laundry room.

**“This product is not intended for outdoor installation.”**

**Give your water heater enough space and air**

A heat pump water heater needs plenty of air. Look for a sufficient space room. In a smaller space, you can increase ventilation by installing air ducts or louvered doors.



**Ventilate with louvered doors**

Louvered doors are aesthetically pleasing without blocking air flow. Some water heaters have special requirements, but in small spaces you generally can use louvered doors for ventilation. It's important to note this will allow cold air and some additional noise to travel to the adjacent space

*NOTE:*  
Refer to installation and operation manuals for more details.

PHYSICAL DATA					
Description	----	Coolex Heat Pump Water Tank Heating And Cooling			
Unit Model	----	HPWA-00127DDC	HPWA-00127DDH	HPWA-00127DDD	
Unit Type	----	Cooling	Heating	Cooling	Heating
Nominal Cooling Capacity	TR / (W )	1.0 / (3300)	-	1.0 / (3300)	-
Nominal Heating Capacity	TR / (W )	-	1.0 / (3300)	-	1.0 / (3300)
Tank Capacity	Liters	300		300	300
Electric Element Rated Power	W	-	2500	-	2500
Heat Pump Rated Input Power	W	827			
Max Input Power	W	950	4000	4000	
COP	----	4.05			
Power Source	V / Ph / Hz	240 / 1 / 50			
Cooling Water Temp (Min. / Max.)	°C	20 / 30	-	20 / 30	-
Heating Water Temp (Min. / Max.)	°C	-	35 / 60	-	35 / 60
Refrigerant	Type	R134A			
Inlet/Outlet Connection (Dia.)	inc	G3/4			
Net Weight	Kg	135		235	
Unit Dimensions (φxH)	mm	650x1950		650x1460	650x1950

*NOTE:*  
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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