

SWIMMING POOL HEATER

Heating Capacity 5.2kW



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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.

SWIMMING POOL HEATER

COOLEX SWIMMING POOL HEATER (SWP) units are specifically designed and engineered for precise water temperature control in swimming pools. They provide efficient heating during the Gulf's extremely low climate conditions. Each unit operates as a water heater during winter, ensuring maximum performance and energy efficiency.

Key Components Features

COMPRESSOR

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



TITANIUM HEAT EXCHANGER (HEATING)

1. Mould made outer shells ensure superior capacity of pressure bearing and maximize to 2.1MPa in water side.
2. Titanium exhibits outstanding resistance to corrosion.
3. Titanium coils bent by one-step forming technology effectively reduce risk of leakage due to no welding points.
4. Titanium tube with seam, the grades is TA1 made according to standard GB/T3625-1995.



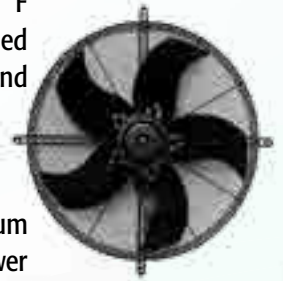
CONDENSER COIL

The coils are fabricated from seamless copper tubes and mechanically bonded to precision-engineered aluminum fins for optimal heat transfer efficiency. Each assembled coil undergoes factory leak testing to ensure a high-quality, leak-free unit.



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, forward 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.



Features & Highlights

- Rotary compressors are designed for smooth operation, providing high efficiency, reliability, and long-term durability.
- Designed to deliver warm water for spas and swimming pools in Gulf countries.
- Applicable for pool water temperature control (heating function) during extremely cold winters.
- The swimming pool heater unit is capable of reliable operation even in low ambient temperatures.
- Microcontroller for heating with precise analogue control to maintain the desired water temperature.
- Eco friendly CFC free refrigerant, without ozone depletion.
- Easy installation, maintain and a lightweight design.

PHYSICAL DATA

PHYSICAL DATA			
Description		----	Swimming Pool Heater
Unit Model		----	SWP-018
Unit Type		----	Water Heater
Nominal Heating Capacity		TR/ kW	1.50 / 5.27
Rated Input Power		kW	2.32
Heating Water Temp. (Min. / Max.)		°C	28 / 34
Recommended Temp. Ranges		°C	28 ~ 30
Recommended Water Flow Rate		m ³ /hr	2.2
Compressor	Power Supply	----	220-240V/1Ph/50Hz
	Type	----	Rotary Compressor (Rolling Piston Type)
	Quantity	nos	1
Refrigerant	Type	----	R410A
Number of Refrigeration Circuits		nos	1
Axial Fan Motor	Type	----	Propeller Direct Driven (Axial) - ϕ 250mm
Condenser Coil	Coil Type	----	Coated Louvered Aluminum Fins & Internal Grooved Copper Tube
Evaporator	Coil Type	----	Water Heat Exchanger (Titanium Tube in PVC shell)
Water Pump	Pump Type	----	Volumetric Pump
Water Connection	Inlet & Outlet	mm	50 (PVC Pipe Fitting Union)
Unit Dimensions (LxWxH)		mm	902 x 402 x 580

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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