

HEAT PUMP WATER TANK

Water Tank Capacity 295L



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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RIC LEGACY

Refrigeration Industries & Storage and Oil Services Company (RIC) stands as one of Kuwait's leading industrial manufacturers. The company has built a strong reputation in manufacturing, storage, and oil services, serving both local and international markets.



1979

Medical Cold Stores Complex constructed, the largest of its kind at the time

1984

RIC listed on Kuwait Stock Exchange



1991

Manufacturing plant rebuilt following war damage

2004

Privatization of RIC

2014

SASO, EUROVENT, AHRI and UL certifications

2016

Acquisition of Gulf Paramount Electrical Services Company



2022

GAC Accreditation obtained for all psychrometric laboratories.

2025

Acquisition and commissioning of a new -50TR psychrometric laboratory

1973

Warehouses were established under an Amiri Decree.



1980

Air conditioning manufacturing plant established in Sulaibiya

1986

Launch of the COOLEX brand



2002

ETL Testing laboratory became fully operational

2010

First COOLEX unit compliant with MEW regulations, factory expansion and GAC market entry

2015

ISO 17025 certification obtained.

2021

Acquisition of Kuwait Pipes Industries factory and corporate name expansion



2023

Launch of COOLEX's first inverter air-conditioning system

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 to ensure a leak free unit.



FAN MOTOR

Asynchronous motors are known for their simplicity, ruggedness, and reliability. They have relatively low maintenance costs. 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 295L.

HPWA Heat Pump is designed and manufactured to provide efficient water heating and cooling for residential applications, delivering comfortable hot or cool water throughout your home. Engineered for optimum performance, high energy efficiency, reliable operation, and easy installation, it offers a smart and convenient solution for year-round water temperature control and comfort.

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.

OPTIONAL FEATURES

PERMANENT MAGNET INVERTER CONSTANT PRESSURE BOOSTING PUMP

A high-efficiency booster pump with a permanent magnet motor and inverter technology that automatically maintains constant water pressure while reducing energy consumption, noise, and operating costs. Suitable for residential and commercial water supply systems.



3-STAGE BIG BLUE WATER FILTRATION HOUSING SET

A heavy-duty three-stage water filtration system designed for residential, commercial, and light industrial applications. It effectively removes sediment, rust, chlorine, taste, odor, algae, and suspended particles while providing high-flow, reliable water filtration.



CIRCULATION PUMP

A compact, three-speed wet-rotor circulation pump designed for domestic hot water and heat pump water heater applications. Featuring a stainless steel pump housing, it provides reliable, energy-efficient, and low-noise water circulation with excellent corrosion resistance and long service life.



PPR (POLYPROPYLENE RANDOM COPOLYMER) PIPING AND FITTINGS

are high-performance thermoplastic piping systems designed for the distribution of hot and cold potable water, HVAC systems, applications.



BASE RAIL & FRAME ASSEMBLY

is the primary structural support of a Heat Pump Water Tank.

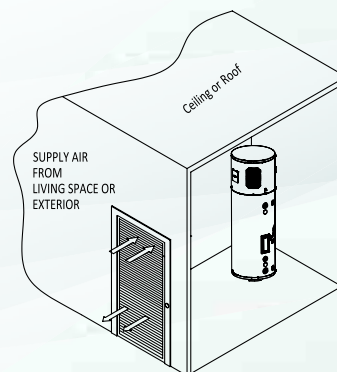
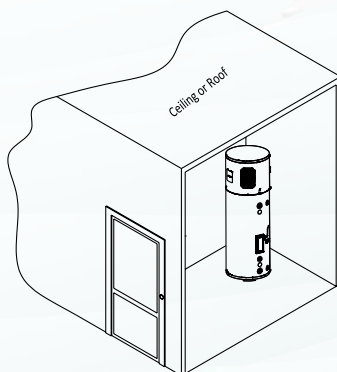
SPACE, AIRFLOW AND VENTILATION

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.

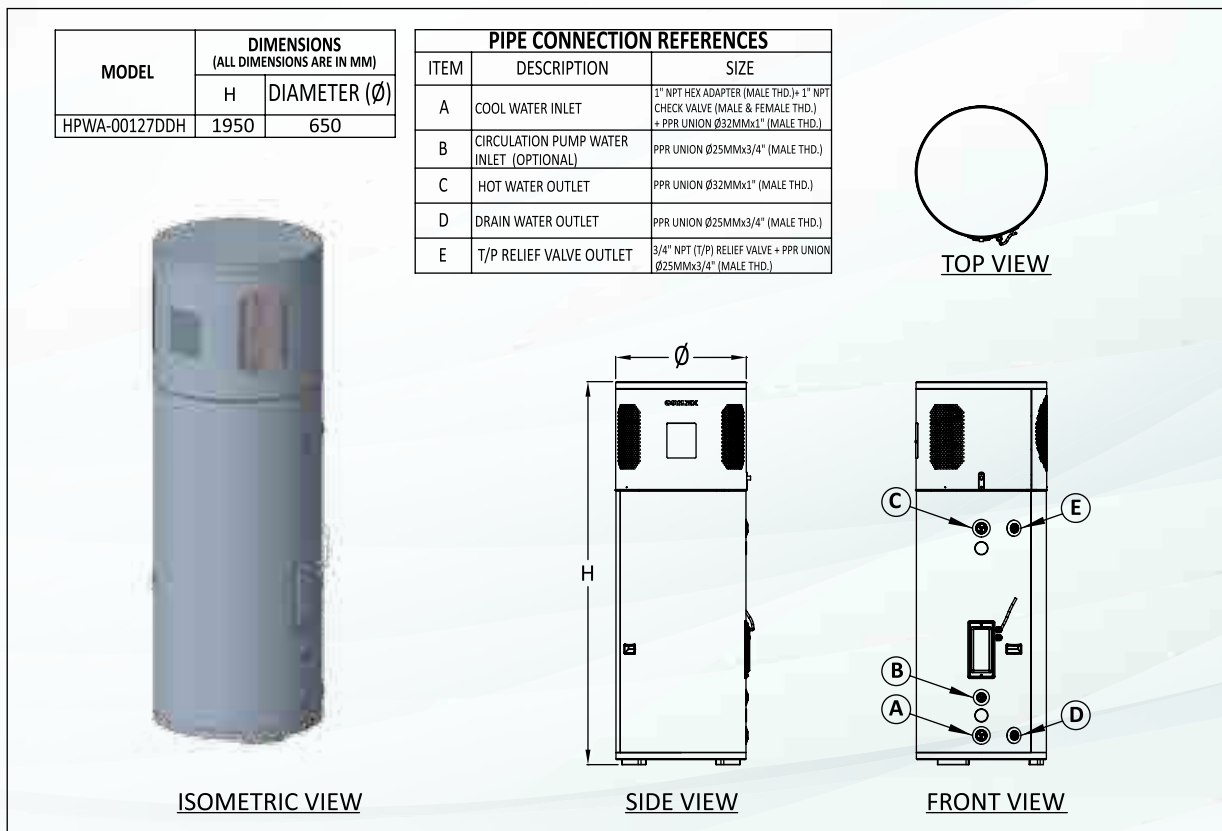
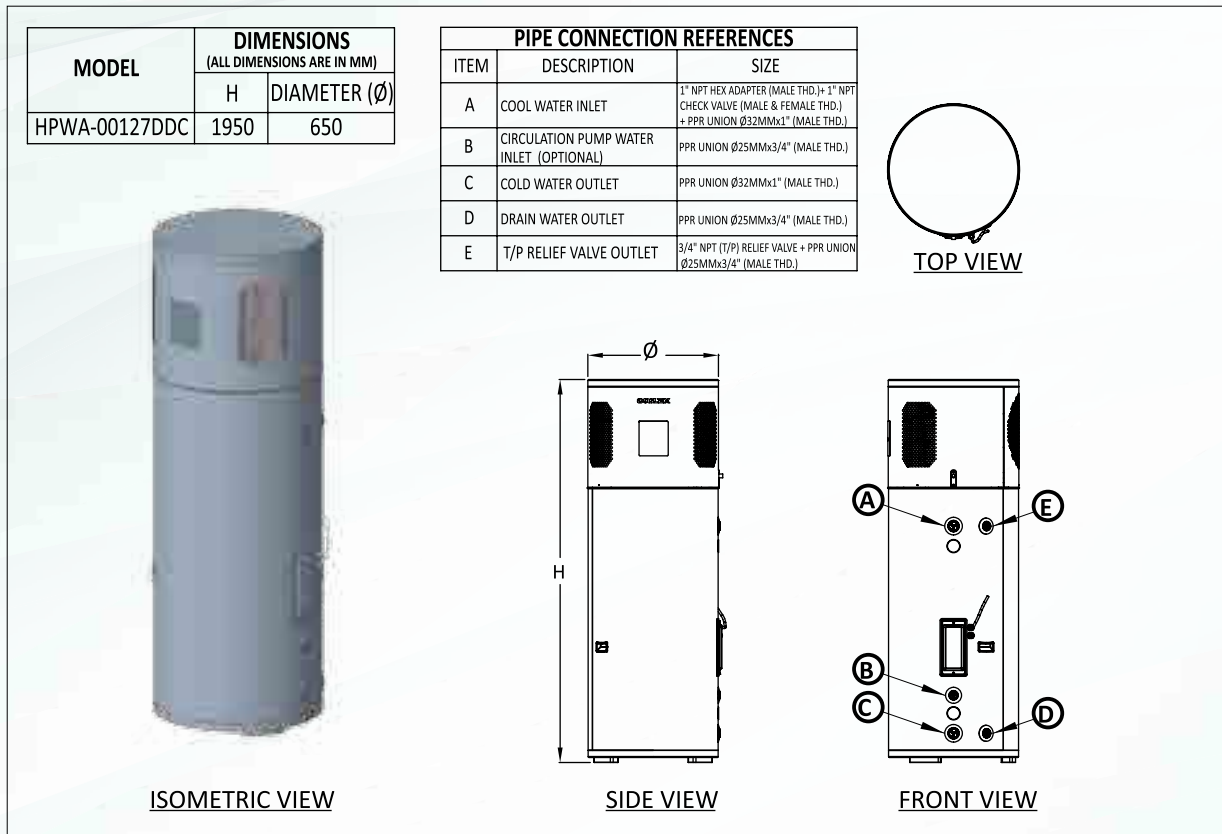
PHYSICAL DATA

PHYSICAL DATA										
Description	----	Coolex Heat Pump Water Tank Heating And Cooling								
Unit Model	----	HPWA-00127DDC	HPWA-00127DDH	HPWA-00127DDD	HPWA-00127DDDF	HPWA-00127DDEH	HPWA-00127DDHF			
Unit Type	----	Cooling	Heating	Cooling	Heating	Cooling	Heating	Heating	Heating	Heating
Tank Capacity	L / (US gal)	295 / (78)								
Tank Rated Working Pressure	Mpa / (bar)	0.8 / (8)								
Permissible Excessive Operating Pressure	Mpa / (bar)	0.8 / (8)								
Electric Element Power	W	-	2500	-	2500	-	2500	2500	2500	2500
Rated Input	W	850								
Rated Output	W	3050								
Max Input Power	W	950	4000	4000	4000	4000	4000	4000	4000	4000
COP	----	3.84								
Power Source	V / Ph / Hz	240 / 1 / 50								
Refrigerant	Type	R134A								
Pipe Connections	-	Refer to Unit Dimensions and Pipe Connection References								
Option 1 - Base Rail & Frame Assembly	-	-				Included				
Option 2 - 3-stage Water Filtration	-	-				Included				
Option 3 - Boosting Pump	-	-				Included				
Option 4 - Circulation Pump	-	-				Included				
Option 5 - PPR Pipings & Fittings	-	-				Included				
Net Weight	Kg	135		235		338		378		216

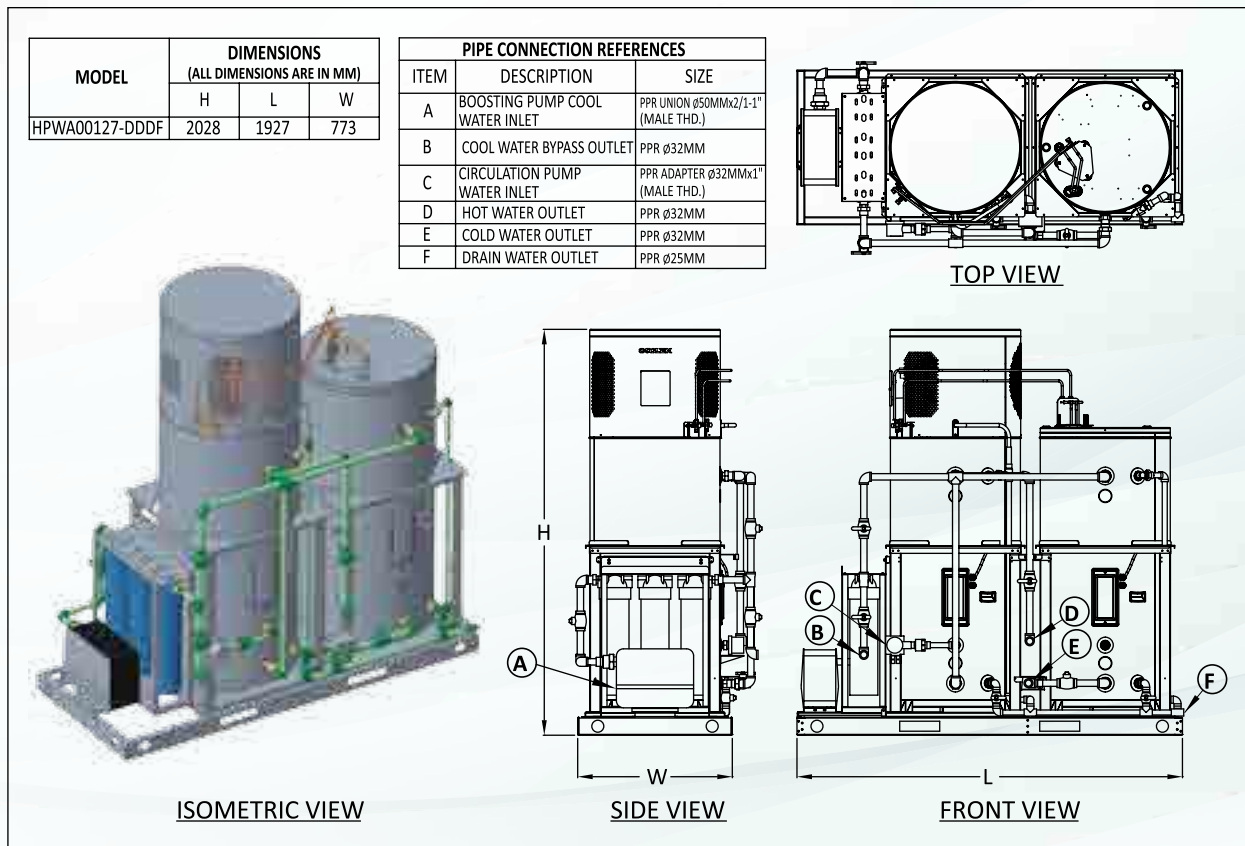
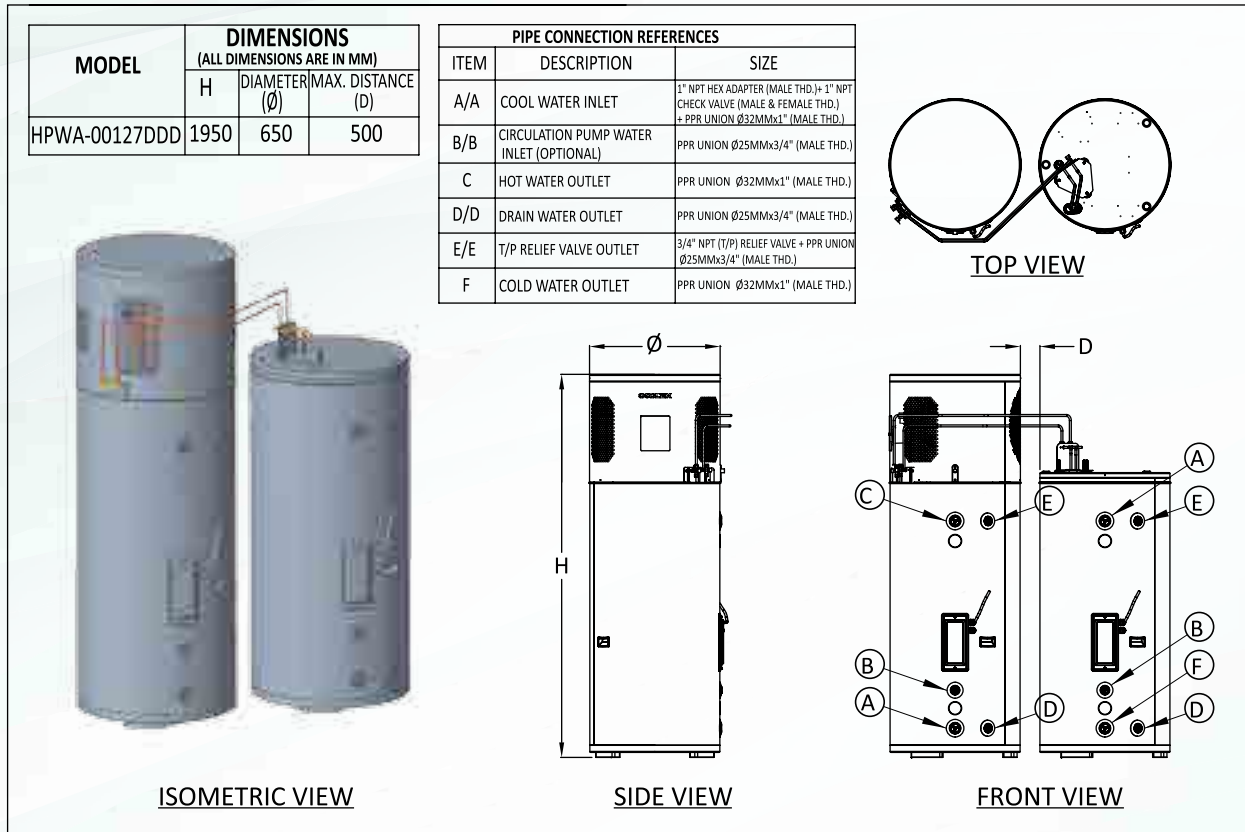
NOTE:

- COOLEX reserves the right to revise product specifications, in whole or in part, without prior notice to support continuous product improvement and enhancement. Specifications are subject to change without notice.
- Please contact the manufacturer for details regarding optional features (Options 1 to 5) and other available configurations.
- Operating Water Temperature Range:
 - Cooling Mode (Min. to Max.): 20°C to 30°C
 - Heating Mode (Min. to Max.): 35°C to 60°C

UNIT DIMENSIONS AND PIPE CONNECTION REFERENCES



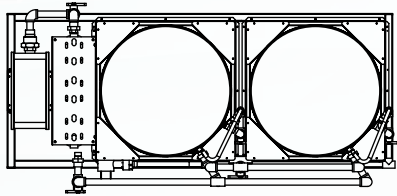
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UNIT DIMENSIONS AND PIPE CONNECTION REFERENCES

MODEL	DIMENSIONS (ALL DIMENSIONS ARE IN MM)		
	H	L	W
HPWA00127-DDEH	2028	1927	773

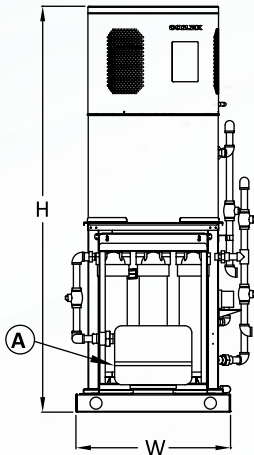
PIPE CONNECTION REFERENCES		
ITEM	DESCRIPTION	SIZE
A	BOOSTING PUMP WATER COOL INLET	PPR UNION $\varnothing 50\text{MM} \times 2/1-1/2"$ (MALE THD.)
B	COOL WATER BYPASS OUTLET	PPR $\varnothing 32\text{MM}$
C	CIRCULATION PUMP WATER INLET	PPR ADAPTER $\varnothing 32\text{MM} \times 1"$ (MALE THD.)
D	HOT WATER OUTLET	PPR $\varnothing 32\text{MM}$
E	DRAIN WATER OUTLET	PPR $\varnothing 25\text{MM}$



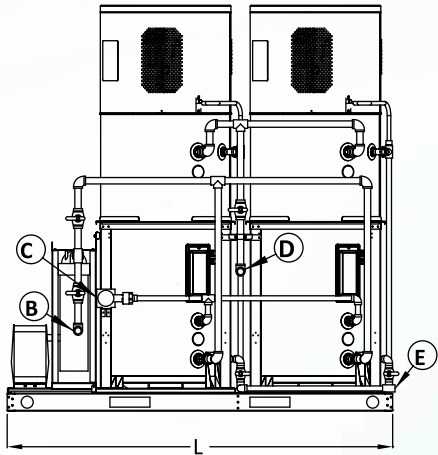
TOP VIEW



ISOMETRIC VIEW



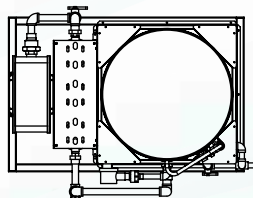
SIDE VIEW



FRONT VIEW

MODEL	DIMENSIONS (ALL DIMENSIONS ARE IN MM)		
	H	L	W
HPWA00127-DDHF	2028	1178	773

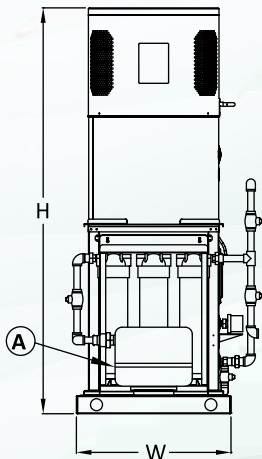
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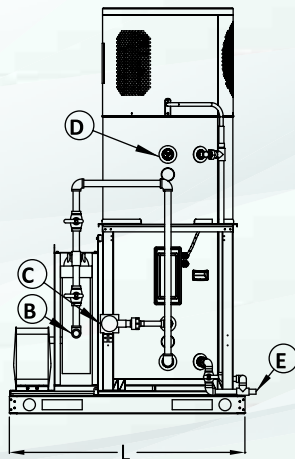
TOP VIEW



ISOMETRIC VIEW

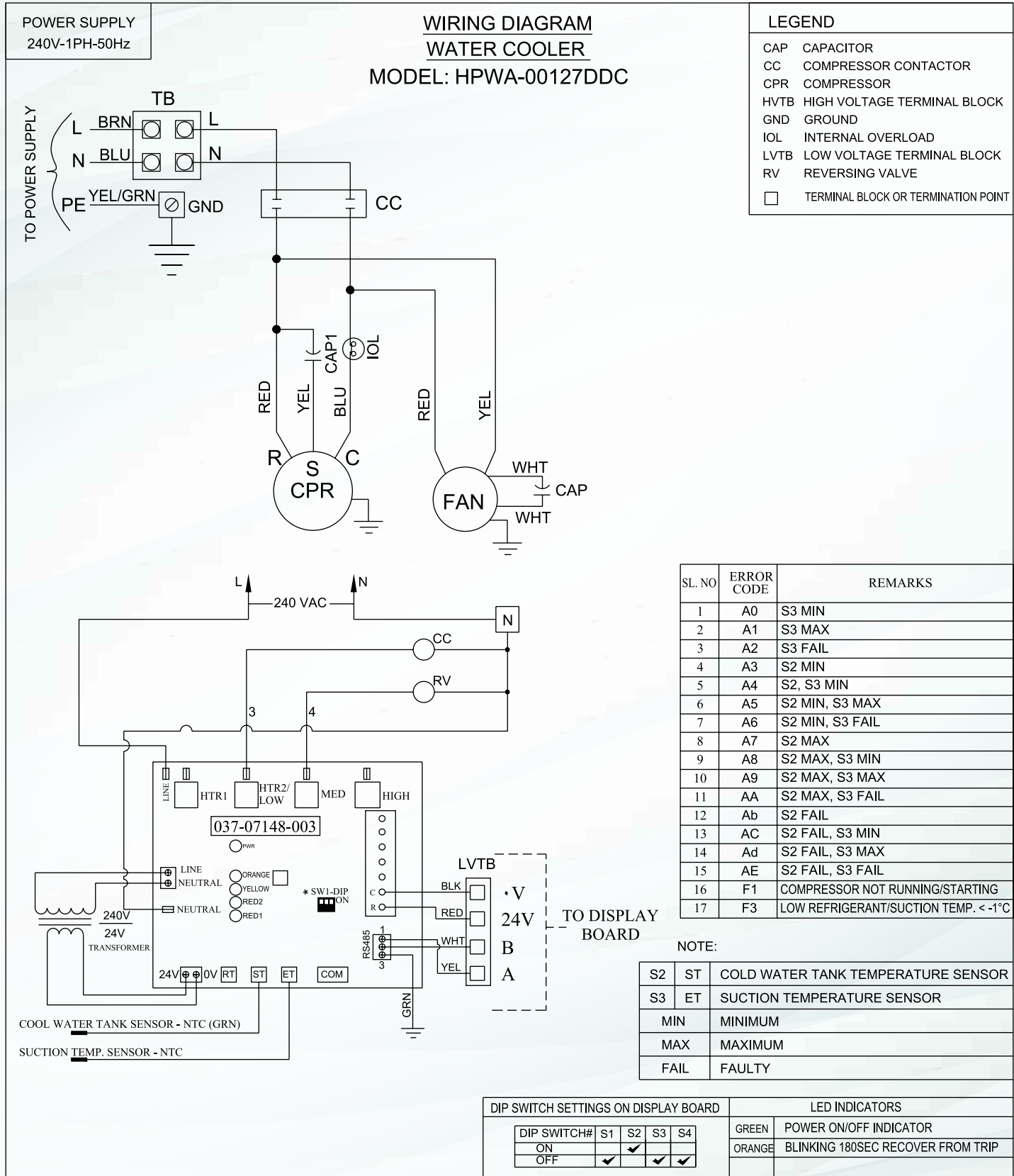


SIDE VIEW

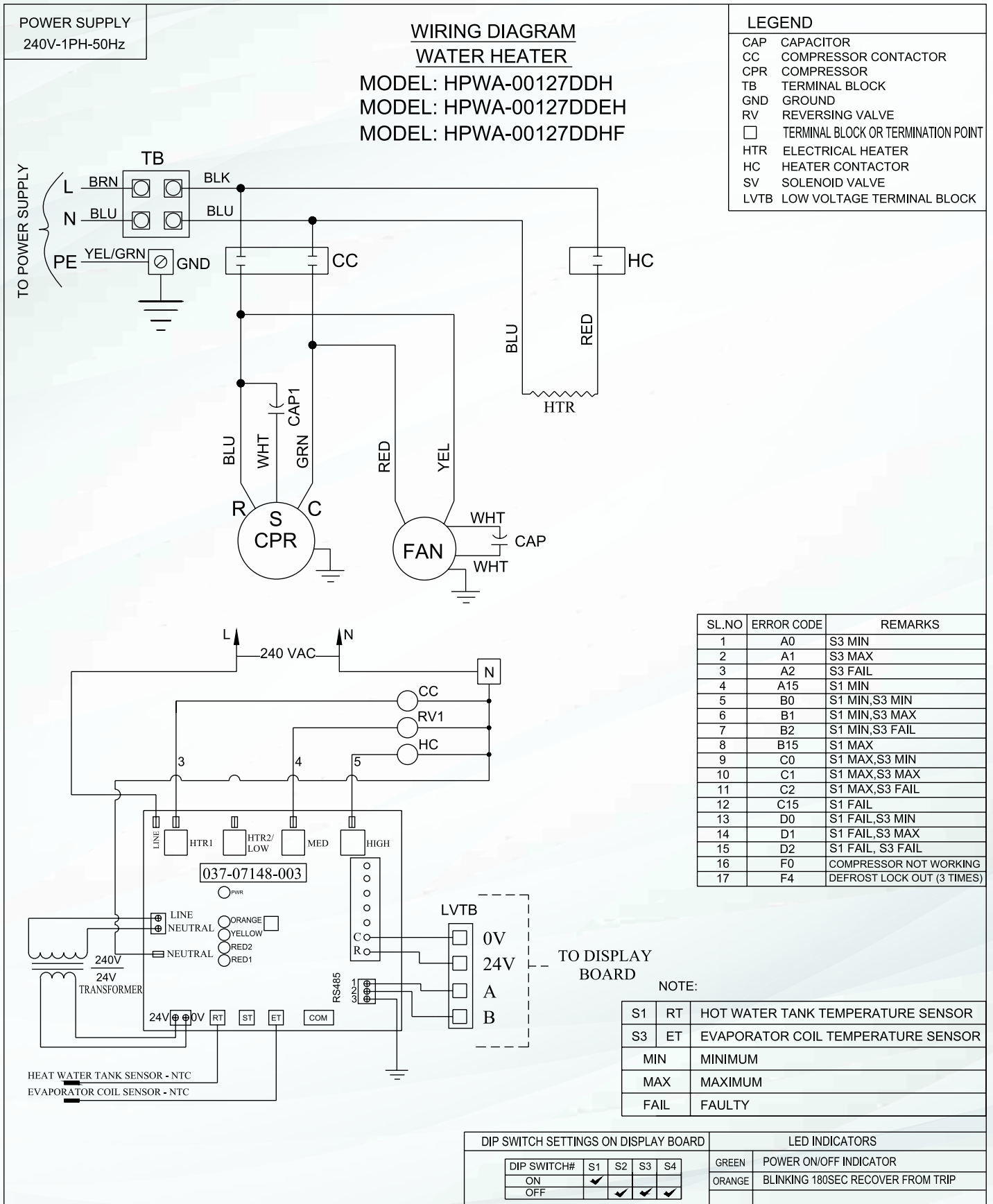


FRONT VIEW

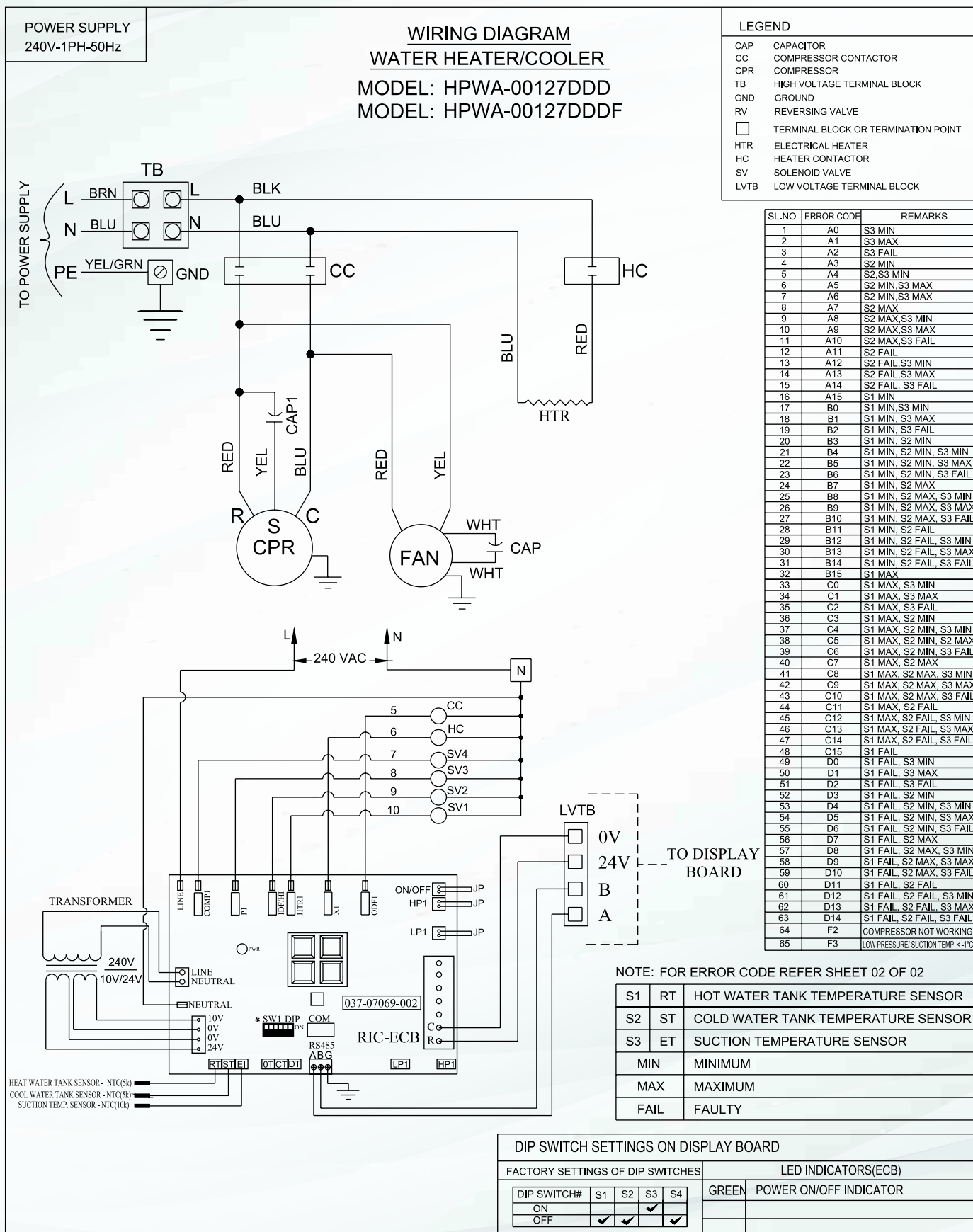
TYPICAL WIRING DIAGRAMS



TYPICAL WIRING DIAGRAMS



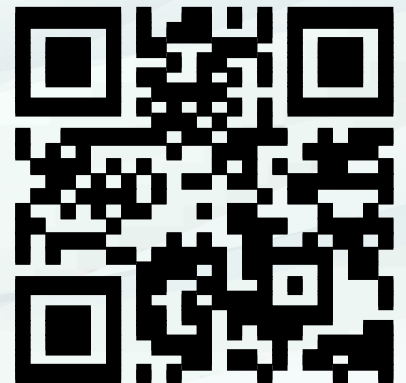
TYPICAL WIRING DIAGRAMS





شركة صناعات التبريد والتخزين والخدمات النفطية

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