

# KELVIN

KELVIN TEMPERATURE GENERAL TRADING LLC



 **WONDERFU**



**WINSTON**



1/3 HP | R134A

**E120H**

**VALUE**



 **WEIGUANG**  
MOTORS & FANS



REFRIGERATION | INSULATION | HVAC | PRODUCTS & TURNKEY SOLUTIONS



**Copeland**  
brand products

**embraco**



**WONDERFU**

**SAMSUNG**



**Panasonic**  
INDUSTRY



**Tecumseh**

**WINSTON**

**Suniso**

# Cold Storage Door

COLD ROOM DOORS

## PRODUCT DESCRIPTION

Our Walk-In Cold Room Doors come in three types: Swing, sliding and hinged. Certainly! Kelvin brand cold room doors are meticulously engineered to provide exceptional insulation and durability. Crafted with high-quality materials and precision manufacturing, our doors ensure superior temperature control and energy efficiency for commercial and industrial refrigeration applications. With a focus on reliability and performance, Kelvin cold room doors are designed to meet the rigorous demands of the foodservice, pharmaceutical, and logistics industries.

- Hinged Cold Room .
- Sliding Cold Room .
- Swing Door



Fig (1): Sliding door



Fig (2): Hinged door

## Door Accessories

Kelvin Cold room door accessories are designed components tailored to optimize the functionality and efficiency of cold room doors. From robust handles and hinges to precision-engineered gaskets and door closers, each accessory is crafted to uphold superior insulation, ensure seamless operation, and preserve the integrity of temperature-sensitive environments. With Kelvin Cold room door accessories, reliability and performance are guaranteed, offering peace of mind in critical cold storage applications.



Fig (3): Sliding door accessories



Fig (4): Sliding upper rail

# INTRODUCTION

SANDWICH PANELS

PUR/PIR CORE



Introducing Our Kelvin Temperature sandwich panels: Engineered for optimal thermal insulation, these panels maintain stable temperatures, making them ideal for controlled environments such as cold storage facilities or temperature-sensitive manufacturing processes. Crafted with precision, they ensure energy efficiency and cost savings while providing reliable thermal protection. Upgrade to Kelvin Temperature panels for superior insulation performance.

Specification of construction and cold storage sandwich panels by KELVIN

## 1. Coating of Surfaces:

Galvanized or aluminum sheets (PPGI or PPGL) with thickness of 0.4~0.7mm in different colors (25microns of silicon with 7micron epoxy primer coating). The coating of PPGI are according to JIS 3312/9and PPGL according to ASTM D3359.

## 2. Kind of Surfaces:

Metal sheet/Metal sheet  
Metal Sheet/Thick nylon  
Metal Sheet/ Aluminum foil  
Nylon/Nylon  
Kraft/Kraft  
Aluminum Foil/Aluminum Foil  
Metal Sheet/Kraft



## 3. Kind of Core:

Core of all sandwich panels made by polyurethane B1 and B3 grades with density of 40+2 Kg/m<sup>3</sup> by default according to ASTM D635.





## Direct Driven Cooling Units

- Silent
- Light Weight
- High Efficiency

# MS-Series



## MS series truck cooling unit

- Working by vehicle engine
- Use high quality compressor and European parts
- Evaporator and condenser case by ABS
- Turbo fans for Evaporator and condenser
- Digital control box
- Designed for high ambient



# MS-SERIES

## TRUCK REFRIGERATION UNIT

Model	Type	Refrigerant	DC voltage	Box volume	Temp	Defrost
MS-510	Direct Driven	R134a	12	6 ~ 10 m3	+5 oc	No
MS-510max	Direct Driven	R404a	12	6 ~ 10 m3	-10 oc	Yes
MS-520	Direct Driven	R134a	24	11 ~ 25m3	+5 oc	No
MS-520max	Direct Driven	R404a	24	11 ~ 25m3	-10 oc	Yes



### Custom Specification

- Separator panel inside the cold room to separate the below zero and above zero section.
- Stainless steel locks and fittings
- Installation of 4 corner fittings or crane hook or forklift fork for easy movement
- Floor covering made of ribbed aluminum or stainless



# CONDENSING UNITS

## HORIZONTAL CONDENSING UNIT STANDARD COMPONENTS



### FAN

Condensers come with axial fans featuring high efficiency and low-decibel sound. They also have a detachable guard grille for service and maintenance. The electric motors of the fans are IP54 and F class insulated. All fans are tested and balanced before installation.



### CONDENSER COIL

The copper tubes are staggered and mechanically expanded, while the fins are designed with sine waves to increase the heat transfer coefficient to achieve maximum turbulence within the airflow and optimal heat transfer between the tube and fin plates.



### RECEIVER

All horizontal or vertical receivers come with a safety valve designed, manufactured, and tested according to ASME standards at a pressure of 45 bar. The receiver's capacity is selected according to the compressor model and refrigeration requirements.



### COMPRESSOR

The compressors used for refrigeration are semi-hermetic reciprocating compressors from the Bitzer brand. They are energy-efficient and eco-friendly, providing the required refrigeration capacity with minimum energy consumption.



### VIBRATION ABSORBER

Packless vibration absorbers made of deep-pitch corrugated tubing for increased flexibility and vibration absorption. They are incorporated in discharge lines to dampen the transmission of compressor-induced vibration through the piping system.



### HIGH AND LOW PRESSURE SWITCH

Rime condensing units are equipped with KP15 to protect against low suction or high discharge pressure. They start and stop refrigeration compressors and fans on air-cooled condensers.



## SPECIFICATION



- › Hermetic compressor
- › Power supply 220-230/1N~/50 or 380-400/3N~/50
- › Air + Axial Fan
- › Crankcase heater + Pressure controlled condenser fan speed regulator + Double solenoid valve for defrosting (only units MSB530, BSB545, BSB550)
- › Remote electronic control panel
- › Expansion through capillary tube
- › Filter on the liquid line
- › Cold room light and bulb
- › Cable for door micro switch
- › Cable for door switch heater on low temperature units
- › Condensate water evaporation tray
- › Through the ceiling configuration
- › High and low pressure switches
- › Cables length 5m





# Evaporators

Evaporators meet the requirements of small storage cold rooms, freezer rooms and reach-in coolers. Their sturdy casing made of sheet metal with a low depth enables optimum use of space in the cold room and are specifically designed for high performance in display cool-rooms for maximum retail space.

KELVIN supplies Friga-Bohn and LU-VE evaporators in the Middle East. Our company specializes in supplying these high-quality evaporators to meet the cooling needs of various industries. With an extensive range of products, we provide our customers with reliable and efficient cooling solutions.



- F31HC 4.0mm Medium Temp LU-VE Box Evaporator F31HC125E4 4mm Fin Spacing - Electric Defrost
- New super-efficient TURBOCOIL 2 Heat Exchanger - high efficiency small diameter copper tubes with turbulated aluminium fins
- Suction pressure gauge connection allows checking of suction pressure and correct performance of unit cooler
- Reduced dehumidification
- Reduced frost formation
- Increased air throw
- Greatly reduced internal volume
- Low noise levels
- Low energy consumption
- Very compact overall dimensions

# FRIGA-BOHN

## Cubic unit cooler

### 3C-A

CO<sub>2</sub> HFC WG A2L



Cooling capacity  
**0.7 - 38 kW**



Friga-Bohn specializes in the design, manufacturing, and distribution of a wide range of refrigeration and air conditioning equipment, including evaporators, condensers, and unit coolers. Their products are known for their reliability, energy efficiency, and superior performance. Friga-Bohn's team of engineers and technicians work closely with customers to understand their specific requirements and provide tailored solutions. Whether it's for commercial, industrial, or residential applications, Friga-Bohn is committed to delivering cutting-edge technology and exceptional customer service.

- # Easy maintenance; the design of the 3C-A allows quick access to all components.
- # The optimized coil design, high-efficiency motors, and the ability to select an EC motor (optional) allow an improved energy efficiency.
- # Versatile product with components, design and options that adapt to all your needs.



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