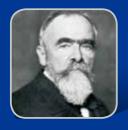




In 1902, Dr. Willis Carrier invented the first modern air conditioning system in the world, which making him one of the 100 most influential people of the 20th century.



The first refrigeration technology invented by Mr. Carl von Linde was patented, marking the application of modern refrigeration technology in scientific research, industry and commerce and families.

Carrier Company

Carrier is a world leader in heating, air-conditioning and refrigeration solutions.

Haier Carrier

Haier Carrier Refrigeration Equipment Co., Ltd. (Qingdao) was a joint venture established by Haier Group and US Carrier in 2001. After more than ten years of development, it has become a world-class facility. Its products include supermarket display cabinets (more than 1,000 specifications), compressor units (scroll, piston and screw), and heat exchangers (air-cooled condenser and air cooler). It can provide customers with whole sets of freezing and refrigerating solutions. Relying on the support of Carrier's R&D centers in Mainz, Germany and Shanghai, China, the company now has a nationally recognized laboratory, and the products and system technologies of Haier Carrier are leading in the world. The company is committed to providing advanced energy-saving systems, including carbon dioxide systems, for customers in the Asia Pacific region.

In the past ten years, relying on abundant resources of the parent company, Haier Carrier has become a world-class facility that owns the ISO9001 certification and the ACE certification of United Technologies (Carrier's parent). With strong R&D strength, we are able to provide world-class freezing and refrigerating integrated solutions such as D2D hot gas defrosting (national patent), Ground Water (GSHP technology dedicated for freezing and refrigerating purposes), HybridCO2OL (carbon dioxide cascade refrigeration technology), and CO2OLtec (carbon dioxide transcritical refrigeration technology).

Carrier new intelligent production base

Carrier is committed to innovative revolution and intelligent manufacturing. Since December 18, 2018, its new intelligent production base has been relocated to No. 3734, Tuanjie Road, Huangdao District, Qingdao.

The area of the new factory has been greatly expanded, and more newly upgraded production lines have been equipped, which has increased the production capacity by about 45%; the laboratories have been comprehensively upgraded and the number has doubled. The laboratory has a complete set of experimental verification system and experimental equipment. At present, there are 3 double-station commercial display cabinet laboratories, which adopt domestic or international advanced equipment; and product parameters meet or exceed national standards, so as to protect food safety; An 24-hour multi-functional testing laboratory for aircooled, water-cooled condensing units, as well as air coolers and condensers, can be used for timely detection to ensure energy-saving and reliable products, responsible for the end user.



Certificate of honor and qualification certificates





CHINASHOP Golden Wings







CHINASHOP Golden Wings-Practical Fresh Food 3rd Prize





CHINASHOP Golden Wings-Effective Stop-loss in Supply Chain 2nd Place

DNV BUSINESS ASSURANCE

MANAGEMENT SYSTEM CERTIFICATE



CHINASHOP Golden Wings-2018 Most Market-potential Products Of the Year



The Best Partner Award Lawson East China 1000 Stores Achievement Award



2017-2018 Golden Cold Chain Award - in China's Cold Chain Industry Top Ten Refrigeration and Thermal Insulation Equipment Suppliers









DNV Business Assurance Management System Certificate



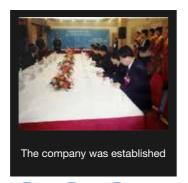
GCCA Credit Certification



National Industrial Product Production License

History of Innovation

In Carrier, innovation is our philosophy all the time



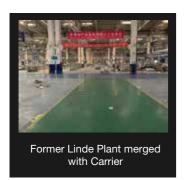




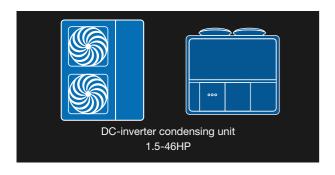
















Authoritative Certification

EEL Energy Efficiency Label Compulsory Certification





Energy Saving Products

Over 90% registered models are of EEL 3 or above. Carrier has the largest number of product certifications in the industry. *

- It became compulsory in September 2013 supervised by Quality and Technology Supervision Bureau. And the remote cases are covered. (Plug-in cases are also covered from 2018)
- All products for sales are of EEL 5 at least
- It must be labeled on all cabinets
- All products registered by Carrier can be found on the website below and all new products are energy saving.

Website of China Energy Label: http://energylabel.gov.cn/

All Carrier products can be found on the website above



Carrier is the

Only One Certified by

Commercial Refrigeration Enterprise

- The scope of certification covers cabinets and condensing units, ensuring the right temperature, food safety and advantage of energy efficiency
- Certificated by Hefei General Machinery Product Certification Co., Ltd., a certification authority in refrigeration industry
- Cabinet remote type and plug-in open type

GCCA Credit Certification



Proprietary Technology

Carrier Squeezed Multi-layer Air Curtain

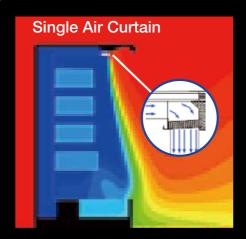
No matter what type of air curtain is adopted, the fundamental purpose is to save energy by isolating the air inside and outside the cabinets and reducing heat and mass transfer through the air curtains.

Single Speed ≤ Dual Speed ≤ Variable Speed

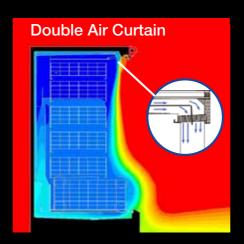
Carrier's Squeezed Multi-layer Air Curtain Design, more efficient and energy saving!

Temperature

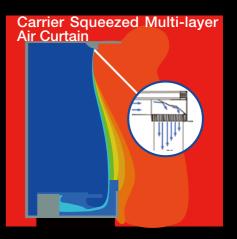
High



Simple and not optimized air curtain design, with much cool air overflow.



Double air curtain relies on physical segmentation (equal to dual speed) and is more energy-efficient than single air curtain (ordinary). However, we can see on the image above that there is still obvious cool air overflow.



Squeezed Multi-layer Air Curtain is developed by the Carrier R&D team after countless CFD simulations and experiments. By optimizing the air speed and direction (similar to continuously variable) at the outlet of the honeycomb, maximally reduce the cold loss of the air curtain. As shown in the image above, with little cool air overflow, the air curtain is more efficient.

In strict accordance with GBT21001 (ISO23953,IDT), Carrier conducts temperature tests and temperature labels, ensuring the temperature performance of the cabinets

Temperature Features

Temperature performance is the basic performance index of cabinets and is also the primary consideration of the users in cabinet selection. According to the temperature ratings in GBT21001, there are different temperature ranges for storage of different food:

| Temperature Class | Temperature Range* | Food to Store |
|-------------------|--------------------|---------------------------------------|
| L1 | -15~-18°C | Frozen food, ice creams |
| M1 | -1~5°C | Fresh meat |
| M2 | -1~7°C | Dairy food, milk, fruits, etc |
| H1 | 1~10°C | Soft drinks, fruits & vegetable, etc. |

^{*} Temperature range refers to the center temperature of the various Test packages (equal to the center temperature of food) in the cabinets in accordance with GBT21001. Both the maximum and minimum temperature, including the normal refrigeration and defrost cycles, must be within the temperature range.

Temperature performance for good display cabinet should be:

- √ Actual temperature is in the range of rated temperature
- $\sqrt{\mbox{Temperature range}}$ must cover the defrosting cycles
- $\sqrt{\mbox{ Little temperature fluctuation in the whole process}}$
- $\sqrt{\mbox{More even temperature distribution}}$

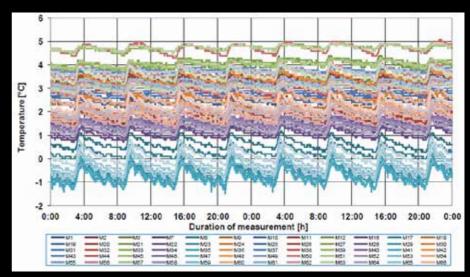
Mechanical arm to open and close the doors

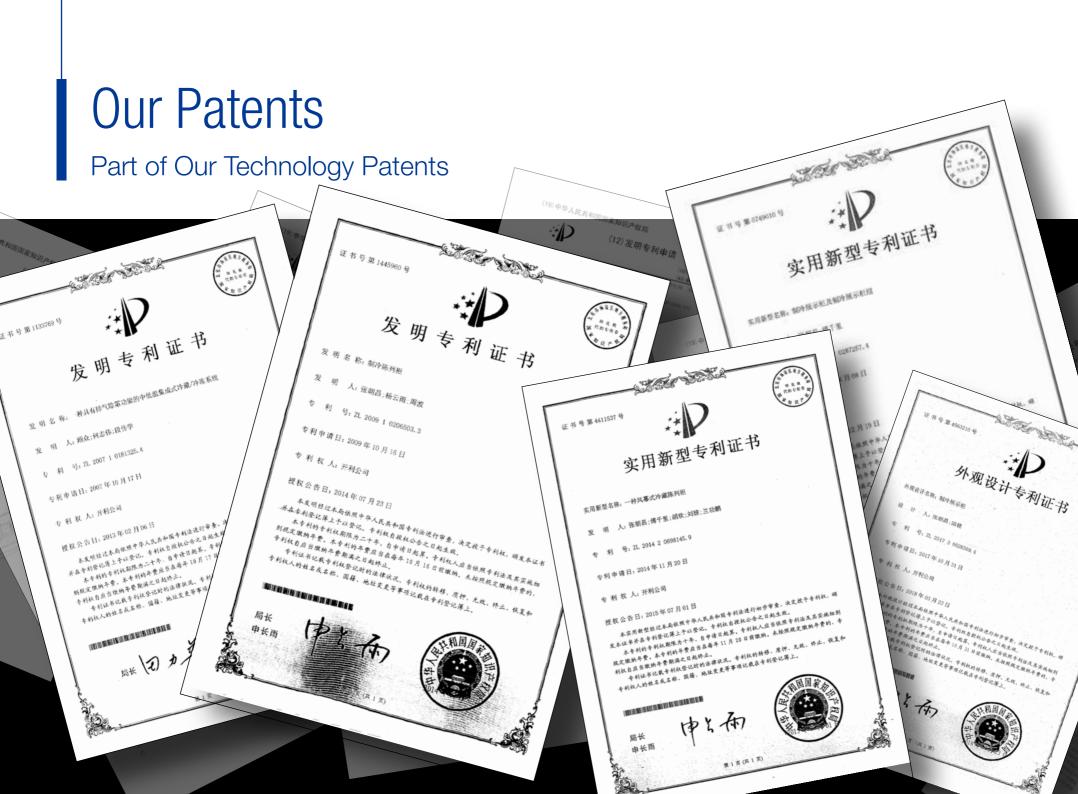
Test packages (M-Package) are used to simulate real food and the temperature point is in the center of the package, closer to the center temperature of the real food.

Temperature probes



Temperature Profile of Carrier E6 Multidecks





Carrier has obtained nearly 100 patents for its core technologies in the field of commercial refrigeration. These patents are applied in Europe, the US, China and other countries and regions in the world, making Carrier ahead in the industry in terms of depth and width.

Integrated System Method

D₂D

Refrigeration Display Case

Refrigeration Circuit, Gas-Liquid Separator and Heating And Cooling System

a Refrigerated Display Case with Auxiliary Air Duct,

Icf with Air Curtain

Shelf with Light Guiding Foil

Hot Gas Defrosting Method

Frame and Refrigerating Apparatus

Even Cleaning a Condenser

Design Application - a New Cabinet with Front Total Transparent and Sliding Glass /Filed

ezer with Bottom Sliding Baskets/Granted

Shelf with Illumination

Bactericidal Surface Protection Pct/Ep2005/001785 Refrigeration Circuit

Shelf with Illumination

Oil Balancing Control for Compressors Working in Parallel

Siphon for Refrigerated Cabinet

Refrigerated Case

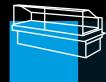
Pct/Ep2005/007259 Refrigerated Shelf Cabinet

Oil Compensation in a Refrigeration Circuit

Oil Accumulation in Co₂ Refrigeration Ejector Cycles

Compressor Oil Distribution Device in Systems with Different Crankcase Pressure SUPERMARKET Commercial Refrigeration Total Solution

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Danaos Rectangular Service Counter

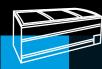




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LD Plug-in Island





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Adventer Integral Chest Freezer (Plug In)







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Adventer Series Crown Case (Remote/Plug-in)





24-27 **Adventer Series Ice Cream Freezer (Plug-in)**





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Danaos

Rectangular Service Counter

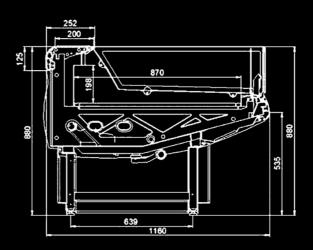




| | Product Model | Product Code | Dimension (mm) | Temp (°C) | TDA (m²) | Net Volume (m³) |
|----------------------------|---------------------|--------------|----------------|------------|----------|-----------------|
| Danaga COLIT Divis in Open | Danaos 188 87 P S X | BG1QBS00000 | 1975*1160*880 | -1~5 | 1.70 | 0.28 |
| Danaos 60Hz Plug-in Open | Danaos 250 87 P S X | BG1QBT00000 | 2600*1160*880 | -1~5 | 2.25 | 0.38 |

Product Features

| Full sized product lines, applicable to stores with various layouts |
|---|
| Modern Appearance, for better product display effect |
| Unibody cabinet, high compressive strength and better thermal insulation properties |
| Temperature optimization, suitable for storage of various daily products and meat |
| Bigger capacity for bigger volume per unit of area |
| Rectangular glass design, for bigger display area |
| Top Squeezed Multi-layer Air Curtain, multiple decks for food storage and bigger capacity |



^{*} All comparisons are based on the product performances of last generation.

LD

Plug-in Island





| | Model | Dimensions /mm | Temperature Range/°C | Net Volume/m³ | Display Area/m² | Net Weight /kg | Frequency (Hz) |
|----------------|---------|----------------|----------------------|---------------|-----------------|----------------|----------------|
| LD Island Case | AIW0.3G | 1570*1065*915 | ≤-15/0~5 | 0.27 | 1.20 | 160 | 60Hz |
| | AIW0.4G | 2065* 1065*915 | ≤-15/0~5 | 0.29 | 1.58 | 200 | 60Hz |
| | AIW0.5G | 2565~1065*915 | ≤ -15/0~5 | 0.36 | 2.00 | 260 | 60Hz |

Product Features

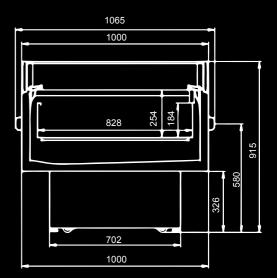
Dual temperature design, switch between MT and LT at will and flexible application

☐ Plug-in island case, plug and play, flexible deployment

☐ Narrow cabinets to save space for markets

Automatic defrost, saving time and efforts

☐ With universal wheels at the bottom, easy to move



^{*} All comparisons are based on the product performances of last generation.

Adventer

Integral Chest Freezer (Plug In)

+10% Storage Capacity

+10% Display Area



= 15% Energy Consumption



Improved Shopping Environment





Adventer

Integral Chest Freezer (Plug In)

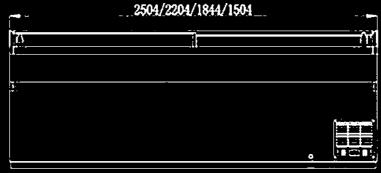


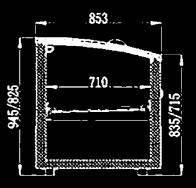


| Cabinet | Model | Dimensions /mm | Temperature Range/°C | Net Volume/m3 | Display Area/m2 | Net Weight /kg | Frequency (Hz) |
|---------------|----------------|----------------|----------------------|---------------|-----------------|----------------|----------------|
| 2500 Run Case | LD-ICF250808AX | 2504*853*945 | ≤-18 | 0.80 | 1.42 | 193 | 60 |
| 2200 Run Case | LD-ICF220808AX | 2204*853*945 | ≤-18 | 0.69 | 1.26 | 160 | 60 |
| 1500 Run Case | LD-ICF150808AX | 1504*853*945 | ≤-18 | 0.43 | 0.82 | 138 | 60 |
| 1840 End Case | LD-ICF180807AX | 1844*853*825 | ≤-18 | 0.45 | 1.03 | 141 | 60 |

Product Features

- ☐ Push-pull up and down glass door
- ☐ Excellent temperature performance, stable and uniform
- ☐ Hot gas defrosting, energy saving and environmental protection
- ☐ Automatic defrosting at night, without affecting the customer use
- ☐ High load line \leq 18 °C 550mm, \leq -20 °C 450mm





^{*} All comparisons are based on the product performances of last generation.

Adventer Series

Crown Case (Remote/Plug-in)

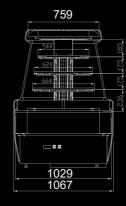


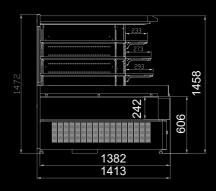


| Model | Coding | Demention (mm) | Operating temp / °C | Net volume (L) | Display area / m² |
|-----------|-------------|----------------|---------------------|----------------|-------------------|
| CCSP1410X | BG1MSU00000 | 1413*1067*1472 | 1-10 | 495 | 2.90 |

Product Features

360 degrees display without blocked shopping channels;
 Fully transparent glass shelf with double-illuminating LED;
 Stainless steel grille and handrail;
 Enhanced ventilation design at corners for well-distributed temperature;
 Higher evaporating temperature (-5°C), more energy-efficient and environmental friendly.





Plug-in

^{*} All comparisons are based on the product performances of last generation.

Adventer Series

Ice Cream Freezer (Plug-in)

- Excellent Temperature Performance
- + 10% Display Area
- -20% Energy Consumption
- Give Attention to Display and Storage





Product Features

- Up-down sliding glass doors at both sides convenient for simultaneous shopping;
- Optional bearing platform at the top convenient for putting other promoted goods or acting as a compact showcase;
- Luxury front glass window for improving the display effect;
- ☐ Be adaptable to high ambient temperature such as suitable for a working condition of 32°C and 70% relative humidity in southern areas.

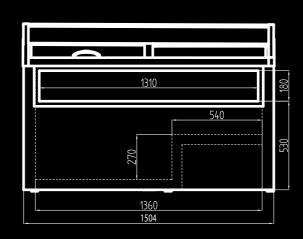
Adventer Series

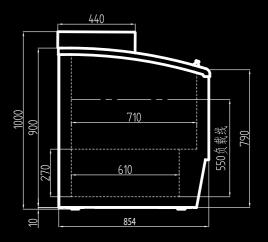
Ice Cream Freezer (Plug-in)





| Model | Coding | Dimensions/mm (L x W x H) | Operating Temperature/°C | Net volume (L) | Display Area/m² | Power/Ftrquency V/HZ |
|---------|-------------|---------------------------|--------------------------|----------------|-----------------|----------------------|
| CIF15GX | BG1MLD00000 | 1504*854*1000 | <-18 | 405 | 0.53 | 220/60 |





^{*} All comparisons are based on the product performances of last generation.

LD Series

LD Multideck





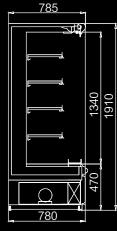






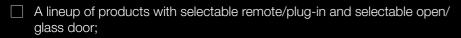


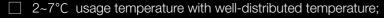
| Product Code | Model | Dimension(mm) | Temp.(°C) | Volume(L) | Display Area(m²) | Voltage(V)/ |
|--------------|------------|---------------|-----------|-----------|------------------|-------------|
| BG1MXL00000 | LD09205MEX | 997*805*1910 | 2~7 | 430 | 1.3 | 220/60 |
| BG1MXM00000 | LD12205MEX | 1310*805*1910 | 2~7 | 580 | 1.67 | 220/60 |
| BG1MXN00000 | LD18205MEX | 1935*805*1910 | 2~7 | 870 | 2.61 | 220/60 |
| BG1MXP00000 | LD20205MEX | 2560*805*1910 | 2~7 | 1160 | 3.48 | 220/60 |
| BG1MXQ00000 | LD12205MBX | 1350*815*1910 | 2~7 | 690 | 1.09 | 220/60 |
| BG1MXR00000 | LD18205MBX | 1935*815*1910 | 2~7 | 1040 | 1.63 | 220/60 |
| BG1MXS00000 | LD12205LBX | 1350x815x1000 | ≤-18 | 690 | 1.09 | 220/60 |



LD open type, plug-in

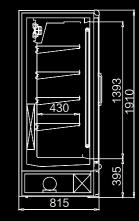
Product Features





Mature product with reliable performance;

Consistent appearance of chiler/freezer to improve overall display effect of stores.



LD Glass door, plug-in

^{*} All comparisons are based on the product performances of last generation.



REDUCE YOUR CARBON FOOTPRINT AND ENERGY COSTS. NATURALLY.

Let's Work Together!

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