

# Haier

## Smart Frequency Conversion

Hydrocarbon refrigeration, supreme energy savings



DW-86L828BP/959BP

- Smart frequency conversion, fluorine & chlorine-free hydrocarbon refrigerant, three-level energy savings design and environmental.
- Superior temperature uniformity of less than 3 °C
- Ultra silence design of less than 43.5 dba sound level with proprietary design



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**Haier Biomedical UK Ltd.**

**Haier Biomedical**  
Intelligent Protection of Life Science

### Main Applications ➤

The ultra-low temperature freezer is designed for preservation of viruses, germs, red blood cells, white blood cells, skin, bacteria, semen, and other biological materials and seafood as well. It is also suitable for applications in blood banks, hospitals, disease control & prevention centers, research institutes, electronic, chemical and other labs, biomedical engineering institutes, and long range fishing companies.

## Product Advantages

### Advantages

- World-leading frequency control technology improves working efficiency of freezer's refrigeration system significantly. Total energy consumption is less than 8.2 kwh/24 hr., a 30% reduction of that of a typical ULT freezer.
- Fluorine free refrigerant protects the ozone layer and reduces the global warming with a GWP of 3.
- Double-foamed inner doors and five-gasket sealing design reduces leakage of cold air.
- Optimized super-thick VIP insulation technology improves insulation efficiency by 20%.
- Large capacity to preserve up to 60,000 samples.
- Variable-speed controlled fan motor allows even more energy savings.

### Features

- Smart frequency control improves system's performance. The control system actively monitors the key parameters of the system, such as loading, and door opening, and controls the motor frequency accordingly to achieve the maximum coefficient of operation (COP).
- Superior energy savings:
  - Level 1: High efficiency thermal insulation structure minimizes cold air leakage.
  - Level 2: High capacity hydrocarbon refrigerant and efficient cooling system.
  - Level 3: Optimal operation of compressor: High energy cooling mode permits a quick temperature pulldown or recovery. Low energy bcooling mode is activated when compressors operate at its maximum COP to maintain freezer temperature.

### Safety

- Multiple alarms: door ajar alarm, high and low temperature alarm, sensor error alarm, low battery alarm and high ambient temperature alarm.
- Over-current and overload protection.
- Ambient temperature and voltage display.
- Electromagnetic radiation isolation design, and no electromagnetic pollution



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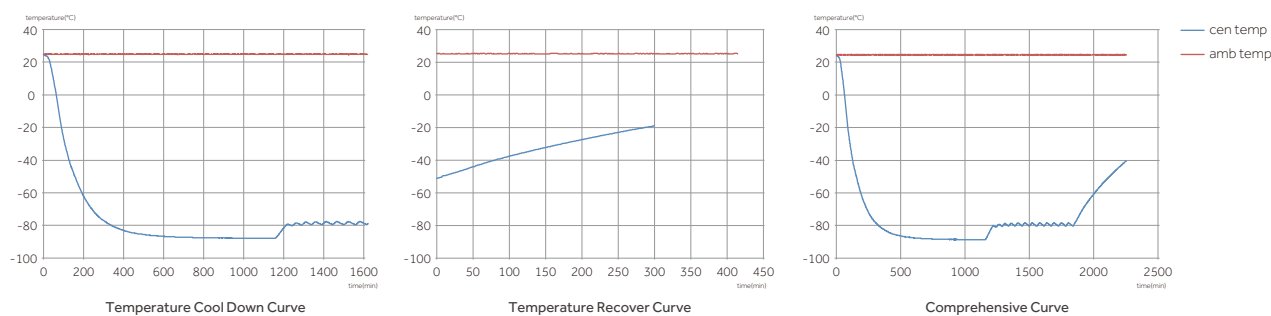
### Ergonomic Design

- Heated pressure equalization port design for easy re-opening of the door.
- Standard USB port for downloading temperature data saved up to 10 years. Data inquiry can be performed in addition to downloading with traceability.
- One-piece handle and spin lock (standard), or padlock / electromagnetic lock (optional).

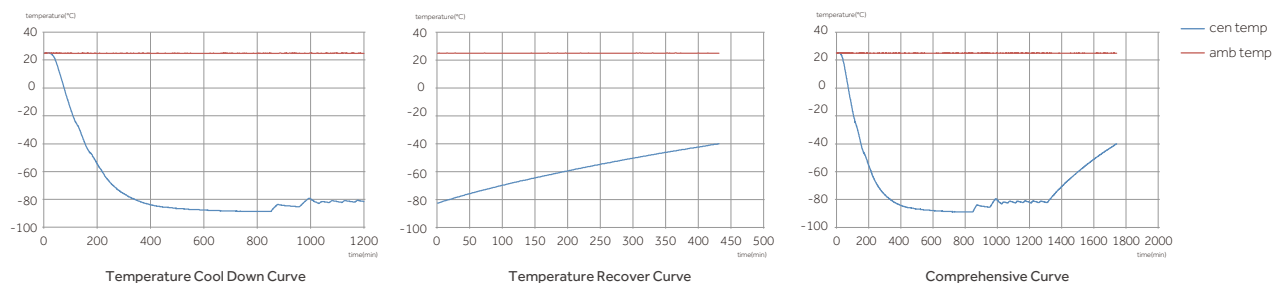
### Benefits

- Hydrocarbon refrigerant is free of fluorine and chlorine. The ozone depleting potential (ODP) is 0 and global warming potential (GWP) is only 3. It is now recognized as the most environment-friendly material in the industry.
- Hazardous substances in all components adopted are in full compliance with the ROHS standards.
- Built-in structure for isolating electromagnetic radiation produces no electromagnetic pollution.
- Low sound level minimizes noise pollution.
- Superior temperature uniformity and stability are within 3 °C. The control system regulates the cooling system output to achieve a better temperature distribution in the chamber while saving energy.
- Proprietary chassis design reduces the sound level to 43.5 dba. Fan speed and compressor motors speed are both intellectually controlled for the optimal temperature performance while emitting the minimum sound energy. Proprietary chassis design absorbs sound energy, specifically high frequency sound waves.
- World-leading frequency control manages energy output for the optimal performance at a minimum cost. The power consumption is as low as 8.2 kwh/24h.
- Precise temperature control produces the temperature stability within 3 °C.
- Fluorine free refrigerant protects the environment with a GWP of 3.

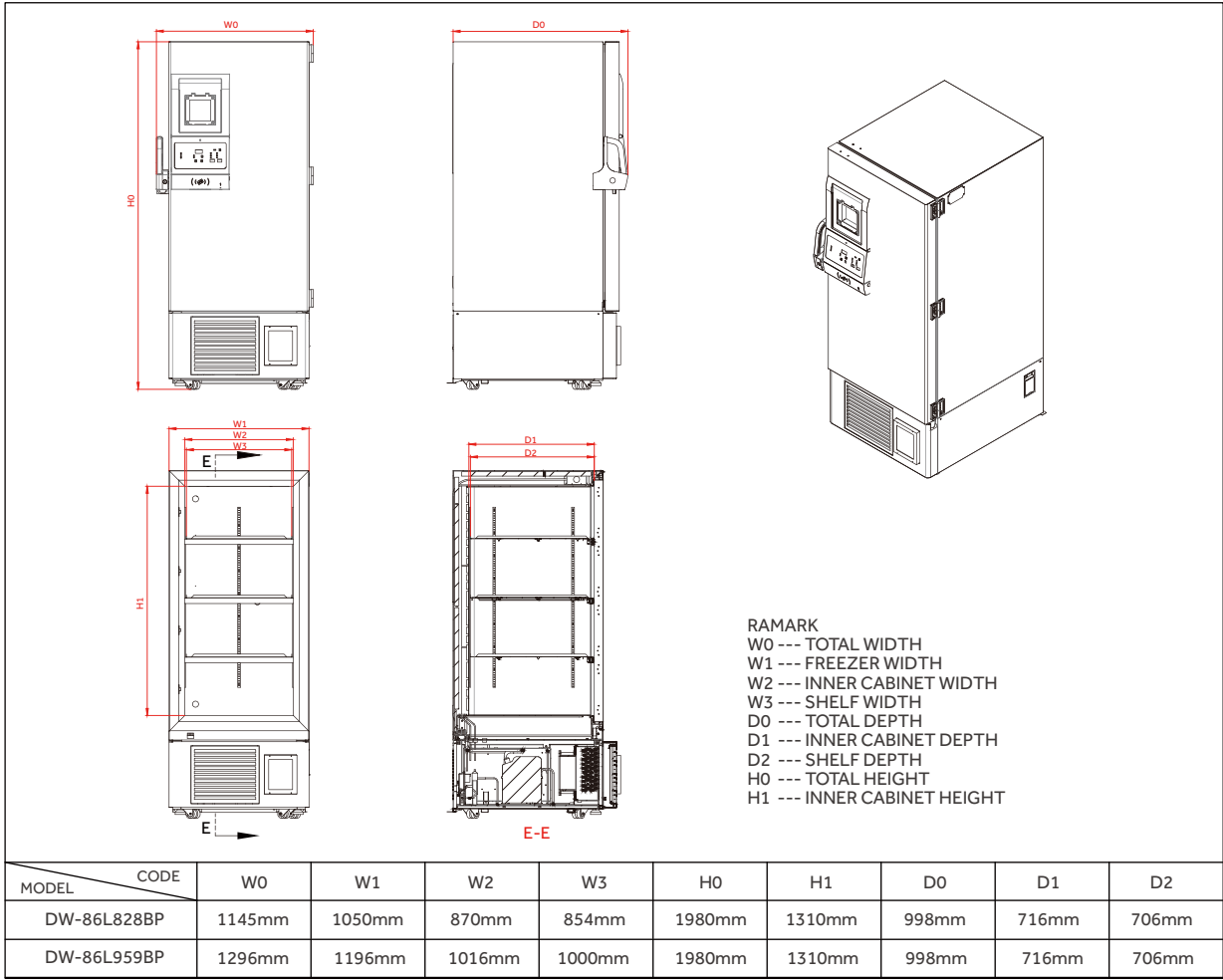
#### DW-86L828BP TYPICAL PERFORMANCE CHARACTERISTICS IN 25°C AMBIENT



#### DW-86L959BP TYPICAL PERFORMANCE CHARACTERISTICS IN 25°C AMBIENT



PRODUCT DIMENSION DRAWINGS



Product Specifications

Model	Voltage (V/Hz)	Rated Power (W)	Inner Cabinet Temperature(C)	External Dimension (W * D * H mm)	Internal Dimension (W * D * H mm)	Effective Volume (L)	Net Weight / Gross Weight (Kg)	Shelf
DW-86L828BP	220~240/50/60	1100	-86	1145*998*1980	870*716*1310	828	380/415	3
DW-86L959BP	220~240/50/60	1300	-86	1296*998*1980	1016*716*1310	959	450/485	3





# WolfLabs

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The specifications listed in this brochure are subject to change by the manufacturer and therefore cannot be guaranteed to be correct. If there are aspects of the specification that must be guaranteed, please provide these to our sales team so that details can be confirmed.

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