

# Haier Biomedical

Intelligent Protection of Life Science

## SmartFrequency Conversion



DW-86L829BP



DW-86L829BP-T

**Haier Biomedical's ultra low temperature freezers with SmartFrequency conversion technology** that provides users with a world-leading energy efficient freezer.



### Intelligent Frequency Conversion Technology

Two frequency conversion compressors, designed with adaptive control, follow user patterns and adjust the refrigeration system, substantially reducing energy without compromising performance.



### Maximum Energy Efficiency

Due to our SmartFrequency refrigeration technology, innovative cabinet design and the use of hydrocarbon refrigerants, this range of freezers have the lowest energy consumption figures to date at just 8.2kWh/day.



### Precise Temperature Control

The innovative control algorithm balances the effects of temperature loss with the unique frequency conversion refrigeration system, ensuring the cabinet temperature stability of  $\pm 3^{\circ}\text{C}$ .

## Smarter by Design

The SmartFrequency Conversion range of ultra low temperature freezers have been designed and developed at the Haier Biomedical R&D Institute and is certified by one of the world's leading energy conservation and environmental protection organisations.



### Frequency Conversion Adaptive Technology

Unlike standard, single speed compressors that cycle on and off, our frequency conversion compressor runs at variable speeds to adjust cooling performance to the conditions inside and outside of the freezer. It allows the freezer to adjust to factors such as start-up and door openings when a higher compressor speed is needed. When conditions are normal or stable, the drive runs at a lower speed while still protecting the samples.



### World-leading Energy Saving Refrigeration Technology

The hydrocarbon refrigeration technology saves energy by 50%, significantly reducing the running costs of the freezer. Hydrocarbon refrigerant contains no fluorine or chlorine and has a global warming potential (GWP) value of just 3, meaning this refrigerant is a more environmentally friendly option compared to HFC refrigerants.



### Minimal Noise Output

Adaptive control technology controls fans and compressors to reduce noise levels to an exceptional 43.5dB.

## PRODUCT ADVANTAGES



### Energy Saving Refrigeration

High efficiency cooling fans and compressors, combined with hydrocarbon refrigerants, ensure energy savings and long-term sample security



### Pressure Equalisation Port

Heated port with spring assisted mechanism to prevent icing on the vent allows users to reopen the main door soon after entering



### USB Interface

Enables users to download historical temperature data for compliance/auditing purposes



DW-86L829BP



### Multilayered Sealing Structure

Triple layer of gaskets split between main and inner doors decreases heat loss and guarantees excellent warm up times in the event of a power failure



### Improved Handle Design

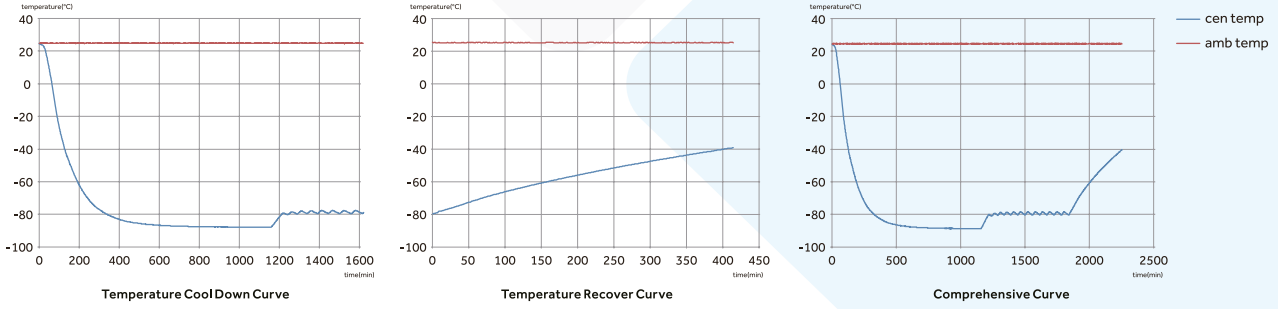
Lockable handle with unique key prevents other Haier freezer owners access to your precious samples, also comes with space for a padlock for that extra security



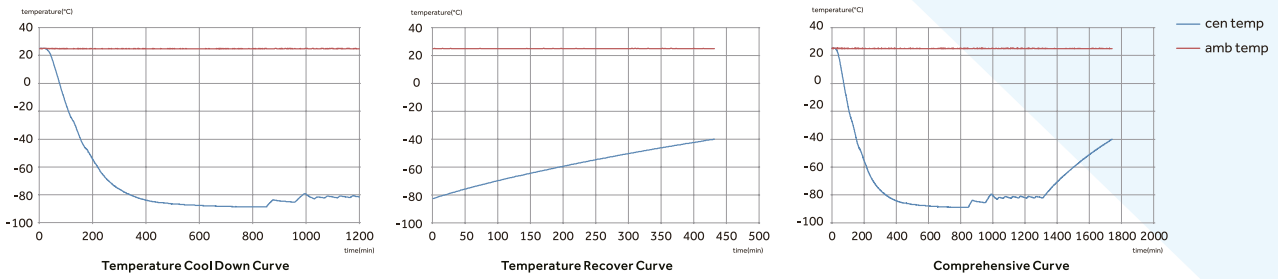
### Multilevel Alarms

Alarming functions that include hi and low temperature, sensor error, power failure, high ambient, clean filter and door ajar

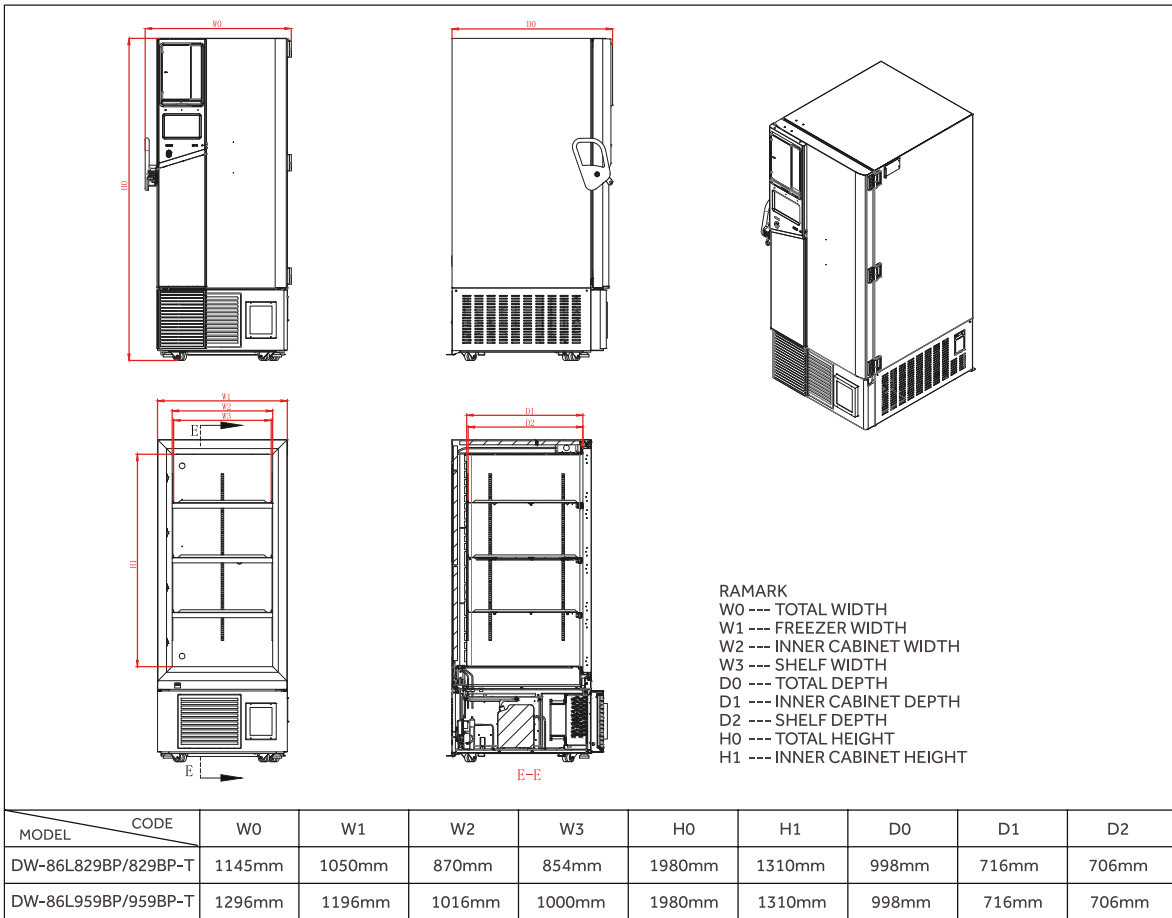
## DW-86L829BP/829BP-T | TYPICAL PERFORMANCE CHARACTERISTICS IN 25°C AMBIENT



## DW-86L959BP/959BP-T | TYPICAL PERFORMANCE CHARACTERISTICS IN 25°C AMBIENT



## PRODUCT DIMENSION DRAWING



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-86L829BP/829BP-T	208 ~ 230/50/60	1100	-86	1145*998*1980	870*716*1310	829	380/415	3
DW-86L959BP/959BP-T	208 ~ 230/50/60	1300	-86	1296*998*1980	1016*716*1310	959	450/485	3



# WolfLabs

**Pricing on any accessories shown can be found by keying the part number into the search box on our website.**

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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Please contact us if this literature doesn't answer all your questions.