

Haier

Ultra-Low Temperature Freezer

- LCD Touch Screen
- Unique Inventory Management System
- World Largest Capacity
- Global Most Energy-efficient
- Multiple Alarm Options



PATRONUS

DW-86L959

DW-86L729

-86°C
ULT Freezer

Touch Screen ^{PATRONUS}

-with Inventory Control at Freezer Site

NEW
Generation

Haier to release the largest ultra-low temperature storage freezer with touch screen control in the global market.



The new freezer offers the largest storage volume in the global market with the capacity of storing 77,000 samples

※ Deadline of survey data: April 2013

Triple protection of padlock, independent key lock and inductive code lock

Stainless steel inner door handle, sturdy and durable

Removable inner door

Temperature recorder (optional)

Imported self locking universal caster wheel

DW-86L959

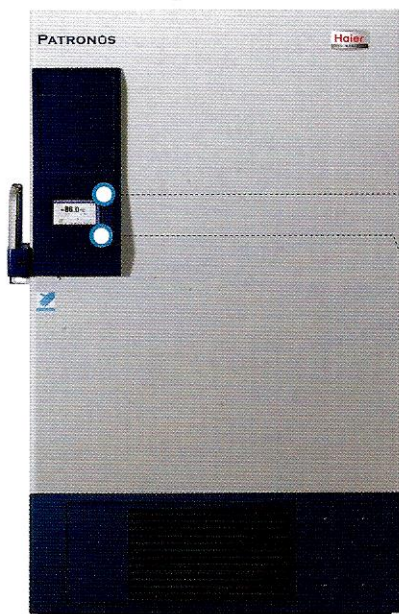
Unique Inventory Management System(IMS)



USB Interface



Access Security Swiping Card



Layered display for sample storage, clear at a glance, easier to manage



Message and notepad function to transmit the information conveniently



Advantages

- ▼ The new freezer design is equipped with a uniquely designed sample management system of touch screen feature
- ▼ The feature makes it possible for fast archiving and retrieving of biological samples for a broader application range. This special feature, developed by Haier, allows a user to record any event and to set up safe and reliable authorizations for access and message checking
- ▼ The feature is designed to allow the equipment to perform self-diagnostics for potential problems and to alert the user to perform maintenance to extend life of the freezer
- ▼ Unlimited battery life which saves cost of replacement battery

Easy to use

- ▼ Current events, storage record, alarm records and other parameters can be downloaded for processing
- ▼ The door handle is designed with consideration for ergonomic factors. It is easy for customers to use
- ▼ Improved security is achieved by programming multiple user authorizations of access. Stored samples of different ownership can be displayed with different colors. Sample positions and status can be displayed clearly and directly
- ▼ The control feature record send permanently stores sample information, alarm record, archiving and retrieving records and environmental condition. Cabinet temperature can be displayed on the front panel. Automatic alarm is triggered when temperature exceeds allowable limits and temperature recording line will change its color

Features

- ▼ Alarm functions include conditions of such as loss of power, door ajar, voltage buck boost alerts, out of specified voltage alarm, sensor failure alarms, low battery capacity alarm, start delay protection, and dirty filter alarm
- ▼ LCD display flashing on touch screen, display, and buzzer alarm
- ▼ Adjustable alarm delay for sound and time
- ▼ Safe mode and licensing mode
- ▼ Energy saving mode and high performance mode

Leading Position

- ▼ The new freezer offers the largest storage volume in the global market with the capacity of storing 77,000 samples
- ▼ The average cost to store one sample is 15% less than that of the common international level
- ▼ Super quiet sound of only 49 decibels, the new ULT can be installed in work spaces
- ▼ Special energy saving feature optimizes the operation for the least energy consumed in the industry
- ▼ This ergonomically designed paper holder provides a convenient platform to organize paperwork

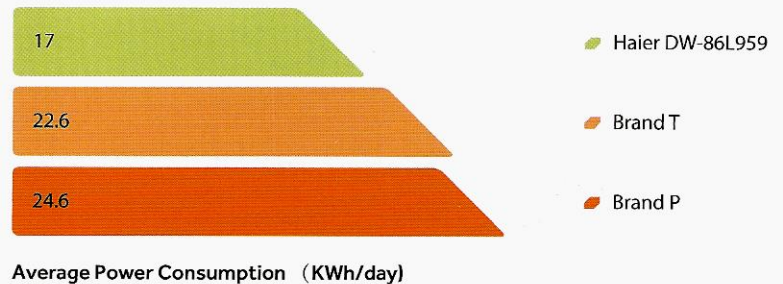
World Largest Sample Storage Capacity

Haier new generation touch screen ULT Freezer DW-86L959, makes use of support racks in size 11*5, which can offer the largest storage volume in the global market with the capacity of storing **77,000** samples.



Energy Efficient

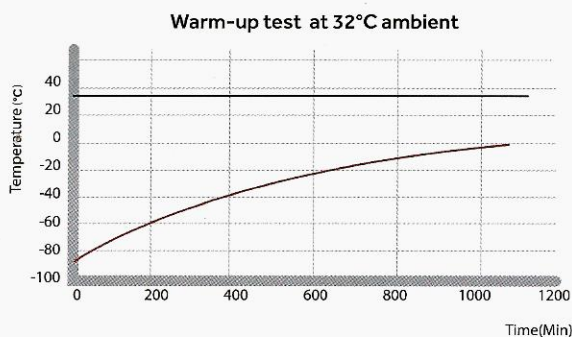
Haier energy consumption is the lowest of all manufactures' largest capacity ULT Freezers



Extended Warm-up Time During A Power Failure

Warm-up time measures the time taken for temperature to rise up (from -80°C to -50°C) at 32°C ambient when the power is interrupted

Haier has the best warm-up time among the ULT freezers compared with competitors' largest volume product



Haier
DW-86L959



Brand P



Brand T



Key Features

LCD Touch Screen



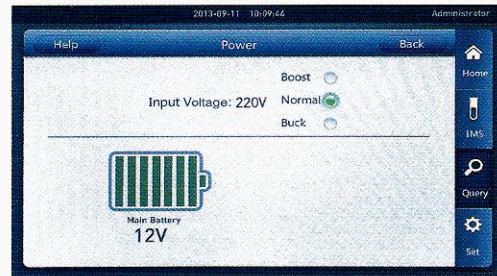
User-friendly menus with complete visualization of freezer status.



Temperature graph can be checked and downloaded easily.

Automatic Voltage Stabilizer

Main power can be adjusted automatically through built-in voltage stabilizer.



Two Modes Selection

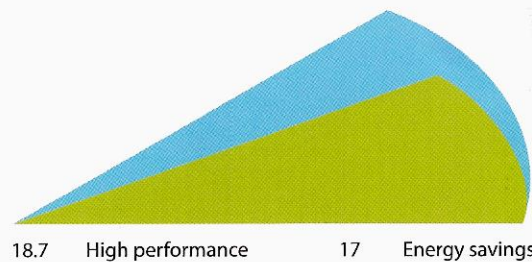
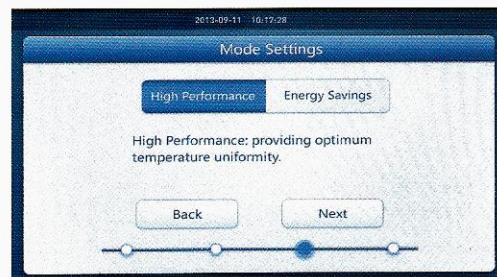
For customers who require the strictest tolerances, our high performance mode provides the tightest temperature uniformity. For most applications, our energy savings mode offers excellent temperature control, plus up to 10% savings on energy usage.

High-Performance Mode

- Designed with GMP applications in mind.
- Outstanding temperature uniformity and peak variation from setpoint

Energy-Savings Mode

- Excellent temperature uniformity Up to 10% energy savings over high-performance mode



Quality Components

The ULT Freezer components were selected from many tear-down and comparison tests. Only the most reliable components were selected.

- Industrial grade hermetically sealed compressors are reliable and have high performance.
- Best known efficiency coalescent oil separator eliminates no oil entering and enhances the entire system's performance.
- Germany EBM Condenser fans generate high airflow and have quiet operation.
- High efficient corrosion resistant and pressure resistant heat exchanger used for maximum heat transfer.

Low Noise

Super quiet sound of only 49 decibels, which is very low for such a large volume capacity.

Multiple Alarm Options

- The control feature record send permanently stores sample information, alarm record, archiving and retrieving records and environmental condition. Automatic alarm is triggered when temperature exceeds allowable limits and temperature recording line will change its color.
- Alarm functions include conditions of such as loss of power, door ajar, voltage buck boosts alerts, out of specified voltage alarm, sensor error, low battery capacity alarm, start delay protect, and dirty filter alarm.
- Adjustable alarm delay for sound and time, alarm sound could be adjusted as per need.

Racks & Boxes(Optional)

ULT Model	Rack Model	Rack Description	Rack Dimensions(W*D*H)	Q'ty of Racks	Q'ty of Boxes	Q'ty of Samples	
						9*9 box	10*10 box
DW-86L729	DCJ-55-A	2 inch stainless steel rack 5*5	138*680*287(mm) 5.4*26.8*11.3(in)	20	500	40500	50000
	DCJ-55-B	2 inch stainless steel drawer rack 5*5	140*688*289(mm) 5.5*27.1*11.4(in)	20	500	40500	50000
DW-86L959	DCJ-115-A	2 inch stainless steel rack 11*5	141*694*636(mm) 5.6*27.3*25.0(in)	14	770	62370	77000
	DCJ-55-A	2 inch stainless steel rack 5*5	138*680*287(mm) 5.4*26.8*11.3(in)	28	700	56700	70000
	DCJ-55-B	2 inch stainless steel drawer rack 5*5	140*688*289(mm) 5.5*27.1*11.4(in)	28	700	56700	70000

Specification

	Model	DW-86L729	DW-86L959
Technical	Cabinet Type	Upright	Upright
	Climate Class	N	N
	Cooling Type	Direct cooling	Direct cooling
	Deforst Mode	Manual	Manual
	Refrigerant	CFC-Free	CFC-Free
	Noise Lever(dB)	49	49
Performnace	Cooling performance(°C)	-86	-86
	Temperature Range(°C)	-40~-86	-40~-86
Control	Controller	Microprocessor	Microprocessor
	Display	Touch Screen LCD	Touch Screen LCD
Electrical Data	Power Supply(V/Hz)	220~240/50	220~240/50
	Power(W)	1200	1300
	Electrical Current(A)	7	9
	Capacity(L/Cu.Ft)	729/25.7	959/33.9
	Net/Gross Weight(approx)	310/332(kg) 683.4/731.9(lbs)	450/485(kg) 992.1/1069.2(lbs)
Dimensions	Interior Dimensions(W*D*H)	766*710*1310(mm) 27.0*28.0*51.6(in)	1016*710*1310(mm) 40.0*28.0*51.6(in)
	Exterior Dimensions(W*D*H)	1046*1000*1980(mm) 41.2*35.2*78.0(in)	1296*998*1980(mm) 51.0*39.3*78.0(in)
	Packing Dimensions(W*D*H)	1078*1034*2130(mm) 42.4*40.7*83.9(in)	1328*1034*2130(mm) 52.3*40.7*83.8(in)
	Container load (20'/40'/40'H)	10/22/22	8/18/18
Functions	High/Low Temperature	Y	Y
	USB Interface	Y	Y
	Hot Condenser	Y	Y
	Power Failure	Y	Y
	High/Low Voltage	Y	Y
	Sensor Error	Y	Y
	Low Battery	Y	Y
	High Ambient Temp	Y	Y
Door Ajar	Y	Y	
Accessories	Caster	Y	Y
	Foot	Y	Y
	Test Hole	Y,2	Y,2
	Shelves/Inner doors	3/4	3/4
	Remote Alarm	Y	Y
	Temperature Recorder	Optional	Optional
	Rs232/485 Interface	Optional	Optional
	CO2 Backup System	Optional	Optional
LN2 Backup System	Optional	Optional	
Others	Certificate	CE	CE