

Ultra Low Temperature Freezers -86



Power consumption \searrow 40%

Storage capacity \nearrow 38%

Usage cost \searrow 50%



- The Ultra-low Temperature Freezer offers a wide variety of research and storage applications, such as low temperature scientific experiments, preservation of plasma, biomaterial, biological product, and testing low-temperature-resistant properties of military product.
- It is suitable for blood bank, hospitals, sanitation and anti-epidemic, research institutes, electronic industries, university laboratories, military industries, agriculture & fishery companies.

What We Offer

- DW-HL388 -CE
- DW-HL538-CE
- DW-HL668-CE
- DW-HL768-CE

- **Microprocessor-based temperature controller, $-40^{\circ}\text{C}\sim-86^{\circ}\text{C}$ can be set freely , controlling precision is 1°C , Digital temperature display.**
- **LED touch screen controller with 7", clear display, easy to operate. Gorgeously design for excellent appearance.**
- **USB interface for users to download the temperature data**
- **Keyboard lock and password protected configuration page, Delayed start and safe stop interval between restart and being terminated.**
- **Audible and visual alarm: High or low temperature alarm, Power failure alarm, Low battery alarm, Door open alarm, Filter blocking alarm, system failure alarm.**
- **Power supply: 220V /50Hz Single phase**



- Upright type , Stainless steel interior, Outer is painted steel panel, 4units Casters for easy handing
- Front opening lockable door with full height handle, with Vacuum release port
- Adjustable 3units stainless steel shelves with inner door, double silicon gasket seal.
- Two-times foaming technology. 155mm foaming insulation , with VIP+.
- With USB temperature printer, record 7days data. 72 hour battery back up for printer and controller display.
- Universal wheels with fixed support , easy to move and fix
- Optional: Chart recorder, CO2 back up system, storage racks/boxes, Remote alarm system.



Improved handle design



LED touch screen controller with multi level alarms , USB interface to download stored temperature data



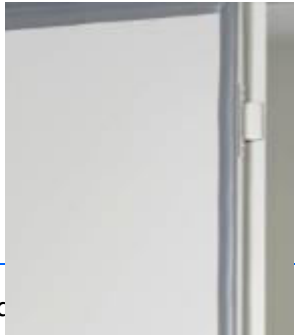
Multi Layered Sealing Structure -VIP +



Test port , diameter 37mm



Improved filter screen , easy to clean



Improved inner door with foaming insulation inside



4 casters with extra fixed legs for better installation

- With keyboard lock and password protection system, prevent from un-authorized change of the parameters.
- Multiple failure alarm system: Sensor failure alarm、 High and low temperature alarm、 Low battery alarm and power failure alarm (optional) 、 door open /ajar alarm 、 filter clogging alarm、 system failure alarm. Make sure the safety of the articles stored inside the freezer
- Door with lock, prevent from the un-authorized opening.
- Start delay and interval stop system to protect the safety operation.

Optional Accessories



CO2 backup system



Chart recorder



Remote alarm dry contact



Medical Refrigeration

CRD ORM REVIEW



RS485 interface ; 72 hours back up battery

Inventory racks with boxes

Inventroy System



CE Compressor



CO2 Back-Up System

- **Description :-** Ensure optimal security for critical samples by using CO2 Back Up System and LN2 Backup Systems with ultra low-temperature freezers. Systems inject liquid CO2 or LN2 into cabinet when cabinet temperature warms to preset level.
- **Features**
- **Temperature is adjustable in 1°C increments to -75°C (CO2), -150°C (LN2).**
- **Digital display constantly indicates actual cabinet temperature.**
- **Indicator lights come on when system is activated.**
- **Additional indicator lights when cylinder is empty.**
- **Liquid flow is shut off automatically when freezer door or lid is opened.**
- **System is powered by rechargeable battery.**
- **Low-battery light indicates when battery requires charging.**



- Is your CO2 back-up system correctly configured?
- ULT freezers typically have a CO2 back-up system, but this cannot be any CO2 system. The CO2 must be delivered to the freezer as a liquid, not as a gas. Liquid CO2 delivery requires a particular withdrawal mechanism and a particular gas cylinder. The withdrawal mechanism is known as a 'dip tube', or an 'eductor tube', and the cylinders are 'dip tube' cylinders, or merely 'liquid withdrawal' cylinders.
- CO2 cylinders for liquid withdrawal have a green grey body with a black eductor tube stripe.

Technical Specification



Model Name	Units	DW-HL388	DW-HL538	DW-HL668	DW-HL768
Description					
Capacity	Ltr	388	538	668	768
Inner Temperature	° C	minus 40 to minus 86	minus 40 to minus 86	minus 40 to minus 86	minus 40 to minus 86
Voltage	V/Hz	220/50	220/50	220/50	220/50
Internal Dimension(Wx DxH)	mm	440*696*1266	585*696*1266	750*696*1268	865*696*1268
External Dimension(Wx DxH)	mm	785*1064*1959	930*1064*1959	1090*998*1968	1205*998*1968
Racks (5x5)	Nos	12	16	20	24
2" Box	Nos	300	400	500	600
Weight (N/G)	Kg	320/345	360/390	390/425	420/455

Competition

- **Imported :-**
- **Thermo Fisher**
- **Haier**
- **NBS**
- **Sanyo-Panasonic**
- **Nuair**
- **Less Known :- Operon , TP**
- **Indian :- Select Refrigeration ; Remi ; Cryoscientific etc...**



Competition....

Target Points:-

- Touch Screen Panel not standard in every model
- Compressor failure rate is high
- Never achieved -86 at ambient of more than 27
- Poor service . Service is done through TV technicians
- TAT is very high
- Door handle prone to frequent breaking down
- Temperature variation is more than what is claimed



Haier



REVCO BRAND

Features:- UFX30086A-421L

•Display -Touch Screen LCD

**•Insulation;- Vaccum Panle
and water blown foam**

•Shelves:-4

**•Temperature Range:- -50 - -
86**

• Expensive

•Boxes:-300

•Vial Capacity:-2ml-30000

Competition....

- The Panasonic MDF-U500VX-PE-86°C Ultra Low Temperature Freezer satisfies an industry demand for safe, long-term storage for the most high-valued materials. Two, independent refrigeration systems, combined with optional liquid CO2 back-up systems, offer a circle of protection unmatched in the marketplace.
- With two independent refrigeration systems, the Panasonic MDF-U500VX-PE TwinGuard freezer maintains a reliable and uniform -86°C ultra low temperature environment. Should one cooling system suffer an unexpected failure, the other circuit will keep irreplaceable samples safely around -70°C until service can be arranged.



Panasonic



- Video 1
- Video 2

Vote Of Thanks
