# HARRIS Freezer Family - K6 conform



# HARRIS-HAHL398S

- Volume: 398 liters
- Capacity for 300 2" Boxes
- 12 Racks ZKL304-552B-CT à 25x Boxes per Rack



# **HARRIS-HAHL778S**

- Volume: 778 liters
- Capacity for 600 2" Boxes
- 24 Racks ZKL304-552B-CT à 25x Boxes per Rack



# **HARRIS-HAHL528S**

- Volume: 528 liters
- Capacity for 400 2" Boxes
- 16 Racks ZKL304-552B-CT à 25x Boxes per Rack



# **HARRIS-HAHL858S**

- · Volume: 858 liters
- Capacity for 660 2" Boxes
- 12 Racks ZKL304-552B-CT à 25x Boxes per Rack
- 12 Racks ZKL304-652B-CT à 30x Boxes per Rack



# **HARRIS-HAHL678S**

- Volume: 678 liters
- Capacity for 500 2" Boxes
- 20 Racks ZKL304-552B-CT à 25x Boxes per Rack



# HARRIS-HAHL1008S

- Volume: 1008 liters
- Capacity for 770 2" Boxes
- 14 Racks ZKL304-552B-CT à 25x Boxes per Rack
- 14 Racks ZKL304-652B-CT à 30x Boxes per Rack





# ZKL304-652B-CT

Freezer rack for Harris HAHL858S+1008S for 30 pcs. 2" boxes



ZKL304-552B-CT

Freezer rack for Harris HAHL398S-1008S for 25 pcs. 2" Boxes

# **Cryogenic Boxes**



**ZKPP-81-2** 

81 well, polypropylene could include 81 vials of 2ml



# ZKPC-81-2

81 well, polycarbonate could include 81 vials of 2ml



ZKZH-81-2

81 Well, Paper could include 81 vials of 2ml



# HARRIS - HAHL398S



The new generation of ultra-low temperature refrigeration system can ensure fast refrigeration.

# Five Magic Features for Energy Saving

Imported high-efficiency compressor + separated evaporator + composite heat exchanger + optimized fractional condensation & separation system + high-efficiency thermal insulation system can save energy and reduce power consumption of the freezer by 40%.

# Low Noise Design

Low-noise direct cooling circuit + suspension frame & sound absorbing compartment & low-noise fan can reduce noise generated by the entire freezer to the largest extent.

# Three-dimensional Thermal Insulation

The 6 sides of the cabinet are made from high-efficiency VIP: Vacuum Insulation Panel, and the thermal insulation design of the inner door made from foaming material and the outer door system was awarded with multiple patents, which can improve the thermal insulation performance of the freezer.

# Represented the Environmentally Friendly

Equipped with natural refigeration gases.







# 7' LED Screen Control System

- The 7' LED touch screen has clear display, user-friendly interface and more accurate temperature control, which can indicate operating status clearly;
- The high-precision microcomputer control system and platinum resistor sensors enable users to set temperature inside the cabinet within a range from -40 to -86°C.



- Security System
   The perfect audible & visual alarm system: high and low temperature, senor error, power failure, low battery, door ajar, main board communication error high ambient tempera-ture, samples out of date notification etc;
  • The compressor start delay and stopping
- interval protection can ensure reliable
- Both the touch screen controller and keyboard controller have password protection which can prevent any adjustment of operatiion without permission;





#### **Refrigeration System**

- The applied high-efficiency compressor and
- EBM fan are energy-saving and highly efficient; • The large finned condenser with a space between fins≤2mm, providing affective heat dissination



#### Alarm Upgrading

USB data storage function: can store relevant operating data, which can be downloaded and checked, ensuring improved security and reliability of sample storage.





#### Human-oriented

- 2-layer heat insulating foamed door with inner and outer door seal and the insulation design of the outer door system with multiple patents can prevent loss of refrigerating capacity in an effective way;
- The 6 sides of the cabinet are made from highperformance VIP: Vacuum Insulation Panel material, improving thermal insulation performance to a



# **Human-oriented**

- The new designed assisting handle and vaccum release port let the freezer be operated singlehanded to open and close the outer door.
- The newly added file box makes recording
- easier and more convenient.
   The liner made from High quality galvanized steel sheet for medical use is low-temperature tolerant and corrosion-resistant, which has a long service life and is easy to clean:
- The universal casters and leveling feet design are more convenient for movement and fixation.





Suitable for use in hospitals, health and disease prevention systems, research institutions, colleges & universities, the electronic industry, biological engineering, laboratories in colleges & universities, food storage applications, etc.

Supplies for Cryopreservation

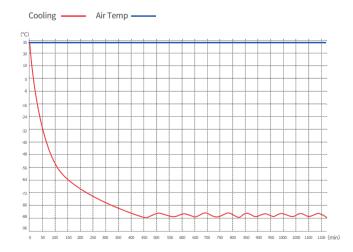
Inventory racks/boxes for cryoprese-

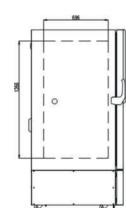
rvation are optional.

# Performance Data / Cooling Curve

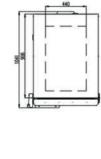


VIP PLUS









# **Specification Chart**

-86°C Ultra-low Temperature Freezer	
Model	HARRIS-HAHL398S
Cabinet Type	Upright
Capacity(L)	398
Internal Size(W*D*H)mm	440*696*1266
External Size(W*D*H)mm	785*1041*1947
Package Size(W*D*H)mm	880*1150*2085
NW/GW(kg)	237/272
Performance	
Temperature Range	-40∼-86°C
Ambient Temperature	16-32°C
Cooling Performance	-86°C
Climate Class	N
Controller	Microprocessor
Display	Touch screen
Refrigeration	
Compressor	1pc
Cooling Method	Direct Cooling
Defrost Mode	Manual
Refrigerant	Natural mixture gas K6 conform
Insulation Thickness(mm)	130
Construction	
External Material	High quality steel plates with spraying
Inner Material	Stainless steel
Shelves	3(stainless steel)
Door Lock with Key	Yes
External Lock	Yes
Access Port	2
Casters	4+(2 leveling feet)
Data Logging/Interval/Recording Time	USB/Record every 1 minute / 365 days
Door with Heater	Hot gas heating
Alarm	
Temperature	High/Low temperature, High ambient temperature
Electrical	Power failure
System	Sensor error, Main board communication error, Built-in datalogger USB failure, Condenser cooling failure, Door ajar, Samples out of date, System failure
Electrical	
Power Supply(V/HZ)	220/50, 220/60, 110/60
Rated Power(W)	1050
Input Power(W)	1287
Power Consumption(KWh/24h)	10.05 (at -80°C)
Rated Current(A)	5.85
Options Accessory	
System	

<sup>\*</sup>The model, parameters and performance specified in this brochure may be changed without prior notice because of product upgrading.

<sup>\*</sup>There may be differences between the product images shown in this brochure and the actual products. When you are buying any product, please check the actual product.



System

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Chart recorder, CO2 backup system, Printer, Backup battery, RS485, Remote alarm contact