

# Vaccine and Icepack Freezer



HBD-86

## Scope of Application

This product is applicable for cryogenic storage of vaccines and other biological reagents in hospitals, CDC, vaccination stations and other units in areas with insufficient or unstable power supply.

## Innovative Design

- ◎ Hydrocarbon energy-saving
- ◎ Safe and reliable
- ◎ Smart control

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## Product Advantages



### Energy Saving

Frequency conversion compressor with higher efficiency and lower energy consumption.



### Environmentally Friendly

- Hydrocarbon refrigeration system with environmentally safe hydrocarbon refrigerants.
- Built with isopentane foam polyurethane insulation, which complies with European ROHS Directive.



### Superior Temperature Uniformity

The insulation thickness is more than 140mm, which enables at least 7 hours holdover time under power failure. (below -5°C, ambient temperature 43°C).



### Low Noise

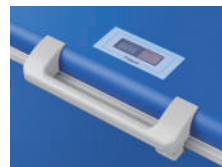
Optimal system and engine noise reduction design, which reduces the sound level to less than 40 dB(A).

## Product Features



### Microprocessor Control System

- Microprocessor electronic temperature controller, LED temperature display, display and control accuracy is 0.1°C.
- Sensor error alarm.
- Two alarm modes: sound alarm and light alarm.



### Security Lock

Mechanical door lock, independent management, safe and secure.



### RTMD

Optional remote temperature recording.



### Material

- The inner liner is coated with zinc plate (the color is grey)
- Steel coatings in blue
- Corrosion-resistant and easy to clean.

## Product Parts Diagram



Solar powered temperature display indicates clearly the internal temperature

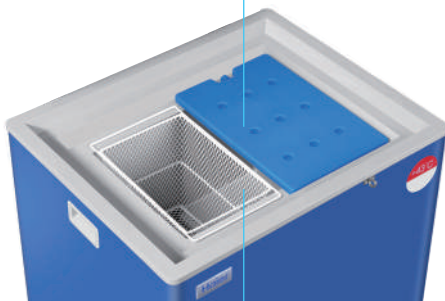
Handle + door lock (standard 2 keys): easy to open the door and secure storage

Drainage port for easier cabinet cleaning



- The system fan provides better air flow and cooling effect
- Compressor start indicator: indicates the running status of the compressor

Equipped with standard 2 ice rows which cover the opening of the cabinet to effectively prevent the rapid loss of cold when opening the door



Equipped with a steel basket, which is corrosion resistant and provides easier access to vaccines and medicines



Features a condenser with dual pipes for higher heat dissipation efficiency

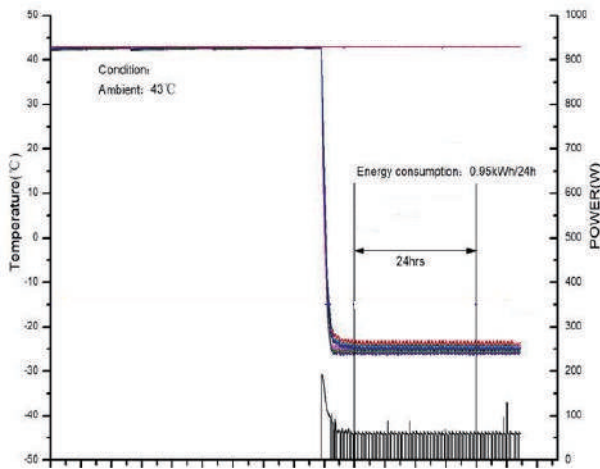
Integrated electric control box: including the main power switch, overload protector, temperature controller

Temperature controller: electronic temperature control, accurate control & display temperature, the minimum display and control temperature is 0.1°C

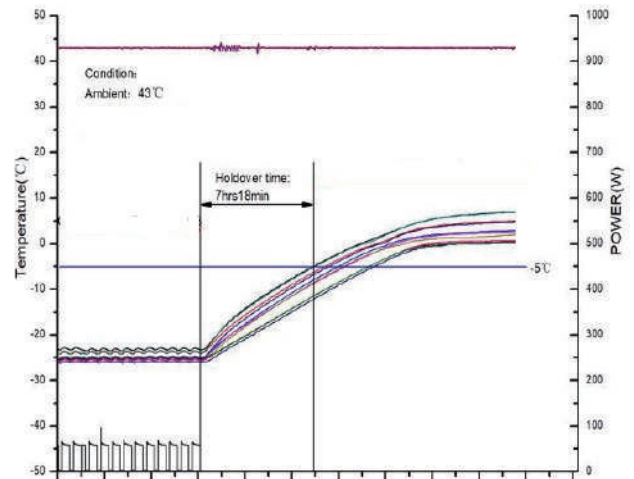
## Typical performance characteristics in 43°C ambient



### Cool Down Curve



### Holdover Time



## Specifications



Model		HBD-86	
Technical Data	Cabinet Type	Chest	
	Ambient Temperature (°C)	< 43	
	Cooling Type	Direct Cooling	
	Refrigerant	CFC-Free	
	Noise (dB(A))	40.6	
Performance	Temperature Range (°C)	-15~-25	
Control	Controller	Microprocessor	
	Display	LCD	
Electrical Data	Power Supply (V/Hz)	220V~240V (50/60Hz)	
	Power (W)	120	
	Electrical Current (A)	1.1	
	Power Consumption: Stable Running (KWh/24h)	0.98	
	Power Consumption: Cool Down Test (KWh/24h)	0.95	
	Holdover Time at 43°C	More Than 7hrs (up to -5°C)	
Dimensions	Vaccine Storage Capacity (L/Cu.Ft)		61/2.2
	Gross Volume (L/Cu.Ft)		86/3
	Net/Gross Weight (approx)	kg	65/90
		lbs	143/198
	Interior Dimensions (W*D*H)	mm	500*366*560
		in	19.7*14.4*22
	Exterior Dimensions (W*D*H)	mm	788*717*872
		in	31*28.2*34.3
	Packing Dimensions (W*D*H)	mm	850*770*1080
in		33.5*30*42.5	
	Container Load (20'/40'/40'H)	36/78/78	
Accessories	Baskets	3	
Others	Sensor Error	Y	
	Certificate	CE, WHO/PQS	
	RTMD	Optional	
	Waterpack Freezing Capacity (kg/24h)	17.6	