

Solar Direct Drive Combined Refrigerator/ Freezer



HTCD-90

Scope of Application

The combined refrigerator with freezer can be used to store vaccines, reagents and freeze ice packs. Suitable for remote and sunny regions where power shortages are common.

Innovative Design

- ◉ Safe, secure and reliable
- ◉ Environmentally friendly
- ◉ Solar energy display panel
- ◉ Optimized refrigeration system design

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Product Advantages



Product Features

- The refrigerating chamber and freezing chamber both have separate refrigeration systems; to ensure safe vaccine storage
- Solar direct drive is a greener and environment-friendly technology compared with traditional refrigeration
- Microprocessor control, solar powered display panel shows refrigerator and freezer interior temperature, refrigerator temperature range is 2-8°C, freezer temperature is less than -10°C
- Patented technology within the cooling chamber maintains the interior temperature, to ensure longer holding times when powered off
- Cooling chamber meets the A level WHO/PQS requirements for anti-freezing protection
- Patented technology, better temperature uniformity
- Wide working ambient range will function normally within an ambient range of 5-43°C



Solar Energy Display Panel

Ergonomic Design

- Lockable to ensure no unauthorized access
- Equipped with USB charging socket, for charging a mobile phone, etc
- Quick and efficient sample retrieval, equipped with easy-to-reach storage baskets
- Low noise
- Corrosion-resistant and easy to clean aluminium interior
- Equipped with handles on both sides of the cabinet, making it easier to move around



Specifications



Model		HTCD-90		
Technical Data	Cabinet Type	Chest		
	Ambient Temperature (°C)	5-43		
	Cooling Type	Direct cooling		
	Defrost Mode	Manual		
	Refrigerant	HC		
	Sound Level (dB(A))	< 38		
Performance	Temperature Range (°C)	Freezer ≤-10 Refrigerator: 2-8		
	Waterpack Storage Capacity (kg)	12.52		
	Waterpack Freezing Capacity (kg/24h)	2.43		
	Freezer Protection Level	A		
Control	Controller	Microprocessor		
	Display	Solar LED Temperature display		
Electrical Data	Power supply (V)	24		
	Maximal Current (A)	7		
	Energy Consumption: Stable Running (kWh/24h)	0.86		
	Energy Consumption: Cool Down Test (kWh/24h)	0.81		
	Holdover time at 43°C	137hrs 47mins		
	Holdover time at 32°C	169hrs 6mins		
	Autonomy Time	114hrs 56mins		
	Solar Radiation Reference Period (kWh/m ² /day)	3.5		
Construction	Vaccine Storage Capacity (L/Cu.Ft)	37.5/1.3		
	Gross Volume (L/Cu.Ft)	Refrigerator: 58/2.1 Freezer: 32 /1.1		
	Net/Gross Weight (approx)	kg	83/113	
		lbs	183.0/250.0	
	Interior Dimensions (W*D*H)	mm	Cooling Chamber: 270*345*555 Freezer Chamber: 170*370*575	
		in	Cooling Chamber: 10.6*13.6*21.9 Freezer Chamber: 6.7*14.6*22.6	
	Exterior Dimensions (W*D*H)	mm	1128*720*875	
		in	44.4*28.3*34.3	
	Packing Dimensions (W*D*H)	mm	1190*770*1080	
		in	46.9*30.3*42.5	
Loading Quantities	Container Load (20'/40'/40'H)	26/56/56		
Alarm	Sensor Error	Y		
Accessories	Baskets	2		
	Data Logger	Y		
Others	Certification	CE, WHO/PQS		

Product appearance and specifications are subject to change without notice