



## Solar Direct Drive Combined Refrigerator/ Freezer

## **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
- Solar energy display panel
- Environmentally friendly
- Optimized refrigeration system design

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## **Solar Direct Drive Combined Refrigerator/Freezer**

# 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

### **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



**Solar Energy Display Panel** 



## 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
	Power supply (V)		24
	Maximal Current (A)		7
	Energy Consumption: Stable Running (kWh/24h)		0.86
Electrical Data	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/m²/day)		3.5
	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
Construction		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
oading Quantities	Container Load (20'/40'/40'H)		26/56/56
Alarm	Sensor Error		Y
Accessories	Baskets		2
	Data Logger		Υ
Others	Certification		CE, WHO/PQS

 $\label{product} \mbox{Product appearance and specifications are subject to change without notice}$ 





HTC-110

# Solar Direct Drive Vaccine Refrigerator

## **Scope of Application**

This product is designed to store vaccine, reagents, etc. in remote, sunny regions liable to power shortages.

## Innovative Design

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

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# Product Advantages (

### **Product Features**

- $\bullet \, \text{Solar direct drive, a greener and more environment-friendly technology than traditional refrigeration} \\$
- Microprocessor control, solar powered display panel shows interior temperature
- · Patented technology maintains interior temperature, with longer holding times when power is off
- Cooling chamber meets the A level WHO/PQS requirements for anti-freezing protection
- Patented technology ensures better temperature uniformity
- Inner lid configuration offers additional temperature protection
- Wide working ambient range will function normally within an ambient range of 5-43°C

### **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 ease to clean aluminium interior
- Equipped with handles on both sides of the cabinet, making it easier to move around



#### **Solar Energy Display Panel**



### **Specifications**



	Model		HTC-110
Technical Data	Cabinet Type		Chest
	Ambient Temperature (°C)		5~43
	Cooling Type		Direct cooling
	Refrigerant		HC
	Sound Level (dB(A))		<30
Performance	Temperature Range (°C)		2~8
	Freezer Protection Level		A
Control	Controller		Microprocessor
	Display		Solar LED temperature display
	Power Supply (V)		24
Electrical Data	Maximal Current (A)		5
	Energy Consumption: Stable Running (kWh/24h)		0.58
	Energy Consumption: Cool Down Test (kWh/24h)		0.62
Liecti icai Data	Holdover Time at 43°C		106hrs 17mins
	Holdover Time at 32°C		152hrs 28mins
	Autonomy Time at 43°C		96hrs 24mins
	Solar Radiation Reference Period (kWh/m²/day)		3.5
	Vaccine Storage Capacity (L/Cu.Ft)		59/2.08
	Gross Volume (L/Cu.Ft)		110/3.88
	Net/Gross Weight (approx)	kg	75/105
		lbs	165/231.5
	Interior Dimensions (W*D*H)	mm	545*345*575
Construction		in	21.5*13.6*22.6
	Exterior Dimensions (W*D*H)	mm	1128*720*875
		in	44.4*28.3*34.4
	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		4
	Data Logger		Y
Others	Certification		CE, WHO/PQS

 $\label{product} \mbox{Product appearance and specifications are subject to change without notice}$