Haier Biomedical
Intelligent Protection of Life Science

Haier -30℃ Biomedical Freezer

Dual refrigeration system
Intelligent defrosting technology
Energy saving

DW-30L1280F

Specifications

Model		DW-30L1280F
Technical Data	Cabinet Type	Upright
	Climate Class	N
	Cooling Type	Air cooling
	Defrost Mode	Manual
	Refrigerant	HC
	Noise((dB(A))	45.4(220V/50Hz)
Performance	Cooling Performance(℃)	-30
	Temp Range(℃)	-10--30 ℃
Control	Controller	Microprocessor
	Display	LED
Electrical Data	Power Supply(V/HZ)	220～240V/50HZ
	Power(W)	800W(220V/50Hz)
	Electrical Current(A)	4.5A(220V/50Hz)
Dimensions	Capacity(L/Cu.Ft)	1280L
	Net/Gross Weight(approx) (kg)	420/480
	(lbs)	924/1056
	Interior Dimension(W*D*H) (mm)	1320×752×1260
	(in)	52x29.6x49.6
	Exterior Dimension(W*D*H) (mm)	1520X1065X1980
	(in)	60x42x78
	Packing Dimension(W*D*H) (mm)	1570X1080X2130
	(in)	61.8x42.5x83.8
	Container Load(20'/40'/40'H)	7/14/14
Functions	Remote Alarm	Y
	High/Low Temp	Y
	Hot Condenser	Y
	Power Failure	Y
	Sensor Error	Y
	Low Battery	Y
	High Ambient Temp	Y
	Door Ajar	Y
Accessories	Caster	Y
	Foot	Y
	Porthole	Y
	Shelves	12
	USB Interface	Y
	5V Power Supply Port	Y
	RS485 Port	Y
Other	Certificate	CE

Typical Installation and Application

Applicable for blood stations, hospitals, CDC's, scientific research institutes, chemical industry and other related industries, Haier's product can cryopreserve plasma, biological products, components, materials and other items that need to be kept at low temperature.

DW-30L1280F

Dual independent refrigeration systems: Superior safety
Auto defrosting system+constant refrigeration system, has successfully solved the industries problem that inside temperatures rise sharply when fan cooling refrigerators defrost; If one system fails, the other one would reach -25 ℃ quickly, which doubles the safety of the sample; With air cooling technology, the inside uniformity can reach ±3 ℃ (±5 ℃ during the defrosting period).

Intelligent defrosting: prolongs the defrosting cycle, safeguarding the stability of the storage temperature
Compared with traditional timed defrosting, the intelligent defrosting technology reduces the defrosting frequency by two, effectively draws down the temperature fluctuation caused by defrosting during sample storage cycle by intelligently identifying the amount of frost on the evaporator.

Advanced defrosting technology eradicates the hidden danger of electric leakage
Haier applies full-automatic hot gas defrosting technology throughout the whole machine. Compared with heater wire defrosting technology, it eliminates the risk of electric leakage due to wire aging, providing extra security and safety.

Hydrocarbon energy saving: green and environmentally friendly
Using green and eco-friendly hydrocarbon refrigeration system, based on the principle of zero damage to the ozone layer with zero greenhouse effect, while reducing energy consumption to 8kW/24H.

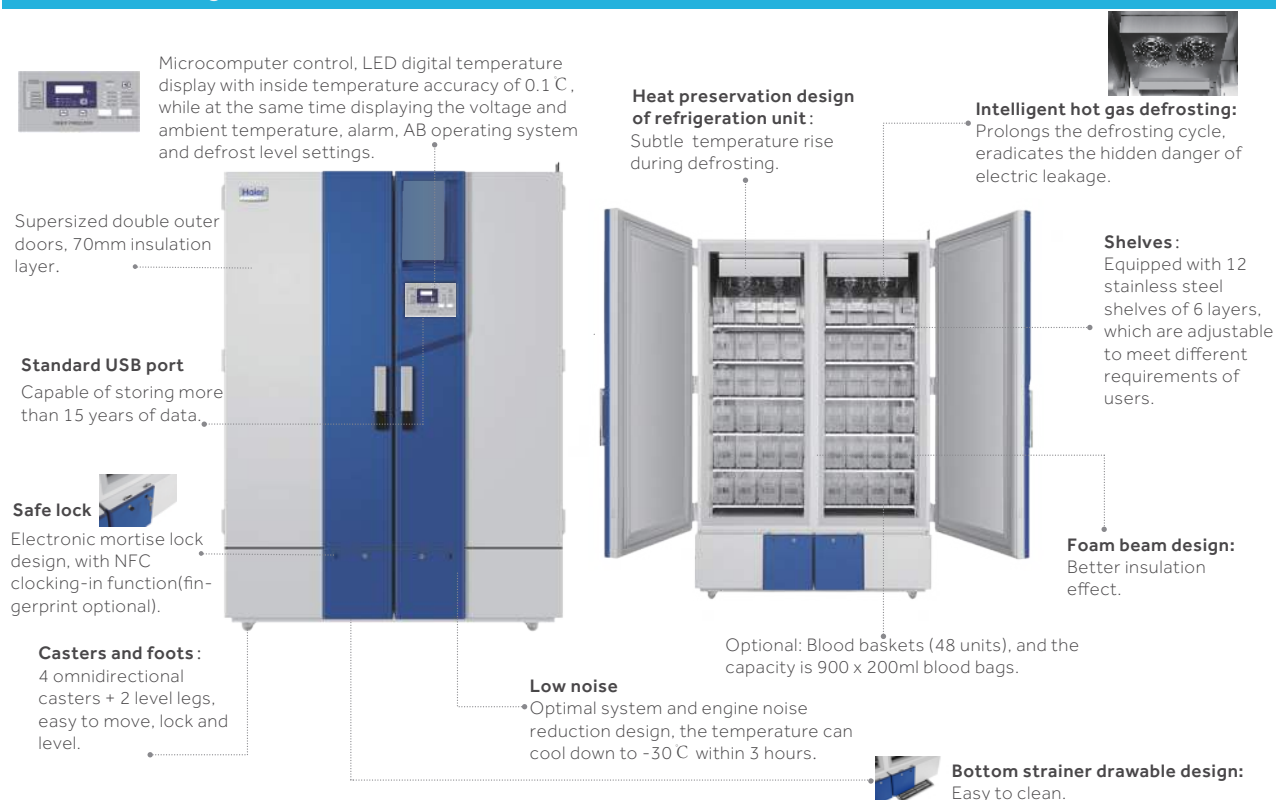## Qingdao Haier Biomedical Co.,Ltd.

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Note: If a slight difference occurs between pictures and actual products, please refer to actual products. Our comp any reserves the right of final interpretation of this brochure, please contact us for any further information as required.

Microcomputer control, LED digital temperature display with inside temperature accuracy of 0.1℃, while at the same time displaying the voltage and ambient temperature, alarm, AB operating system and defrost level settings.

Heat preservation design of refrigeration unit: Subtle temperature rise during defrosting.

Intelligent hot gas defrosting: Prolongs the defrosting cycle, eradicates the hidden danger of electric leakage.

Supersized double outer doors, 70mm insulation layer.

Shelves: Equipped with 12 stainless steel shelves of 6 layers, which are adjustable to meet different requirements of users.

Standard USB port Capable of storing more than 15 years of data,

Safe lock Electronic mortise lock design, with NFC clocking-in function(fingerprint optional).

Foam beam design: Better insulation effect.

Casters and foots: 4 omnidirectional casters + 2 level legs, easy to move, lock and level.

Low noise Optimal system and engine noise reduction design, the temperature can cool down to -30℃ within 3 hours.

Optional: Blood baskets (48 units), and the capacity is 900 x 200ml blood bags.

Bottom strainer drawable design: Easy to clean.

0.1 Microcomputer control system

· Microcomputer electronic thermostat, LED temperature display, display precision 0.1°C, inside temperature -10~-30°C(adjustable).
· Inside temperature, voltage, ambient temperature are displayed simultaneously.
· Multiple alarm functions: including high temperature alarm, low temperature alarm, sensor fault alarm, power off alarm, low battery alarm, open door alarm, high ambient temperature alarm.
· Sound and light alarm mode, attachable to remote alarm interface.
· More than 24 hours constant alarm warning after power outage.
· Standard configuration: RS485 port.
· Standard USB interface and clock-in function.

Superior thermal insulation performance

70mm super thick insulation layer design, superior thermal insulation and energy saving effect. Auto-closing door hinge design, the door suspends when its opening angle is more than 70 degrees while it closes once the angle is less than 70 degrees, which is easy to access while avoiding cold energy loss.

Porthole

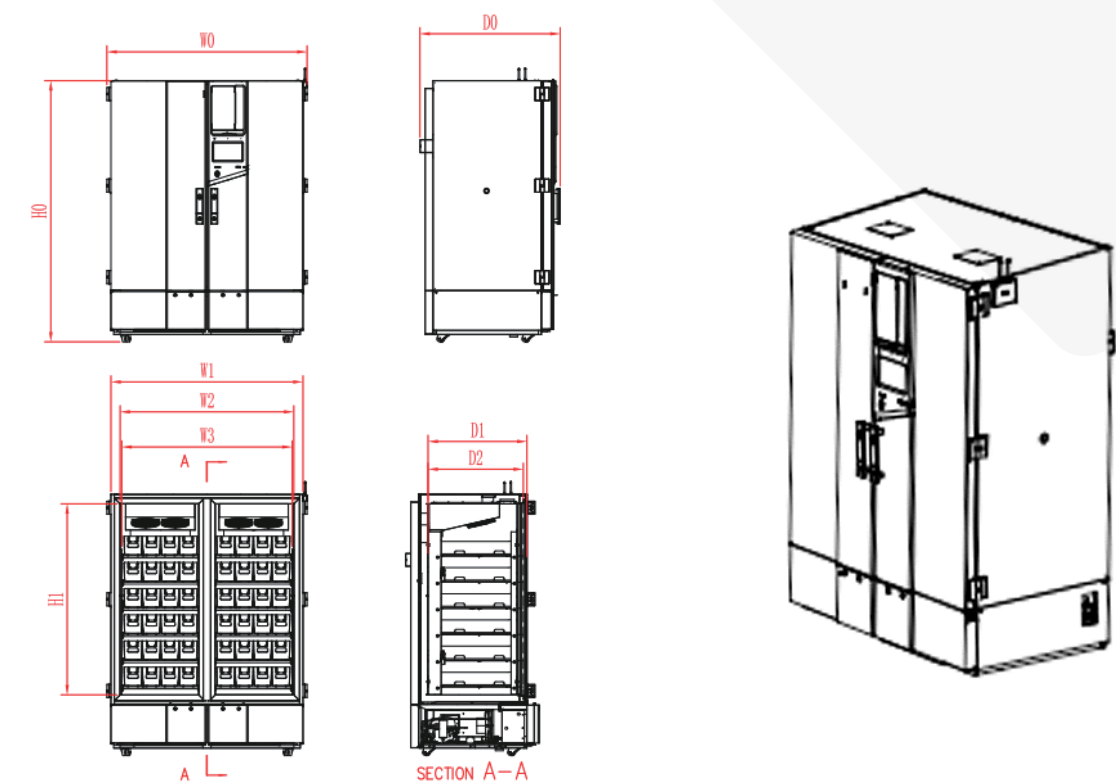Two standard portholes designed for users to test independently.

Pressure equalization port

Equipped with pressure equalization port, easy to open the door.

Material

The accessible parts in the cabinet are all stainless steel (inner liner, door lining, shelves, front and rear vertical beam, blower machine cover), easy to clean and disinfect.

MODEL \ CODE	W0	W1	W2	D0	D1	H0	H1
DW-30L1280F	1520mm	1460mm	1320mm	1065mm	752mm	1980mm	1460mm

The center temperature curve graph of DW-30L1280F at 25 ℃ ambient temperature

temperature/℃

— center of the fourth-level inside cabinet
— ambient temperature

The defrosting curve graph of DW-30L1280F running steadily at 25 ℃ ambient temperature

— 1st level center
— 2nd level center
— 3rd level center
— 4th level center
— 5th level center
— 6th level center

temperature/ C

time/min