Haier Biomedical
Intelligent Protection of Life Science

ULT Freezer Solutions

North America

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JAN 2021

Qingdao Haier Biomedical Co.,Ltd.

No.280 Feng Yuan Road, High-tech Zone,
Qingdao, 266109, P.R. China
Tel: +86-0532-88935593
Website: www.haiermedical.com

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VIP insulation and multilayered sealing design

70mm insulating layer with 25mm VIP and 4 layers of gasket improves energy efficiency and reduces heat loss to deliver excellent warm up times in event of power failure.

Optional IoT Module

Real time monitoring of cabinet temperature, temperature setting, high and low temperature alarm value, temperature curve, alarm log and event log.

- · User-settable parameters such as set point and alarms.
- · Real-time cabinet temperature display, alarm information, power supply and compressor start/stop state.
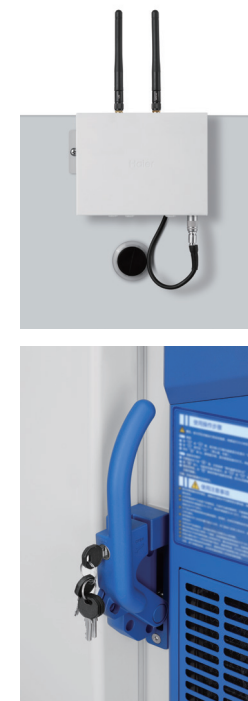- · Standard USB port capable of storing >15 years of operating data for compliance.

Filter is easy to remove and clean without the need for tools.

4 casters + 2-foot locks, easy to move, lock and level.

Ergonomic design for easy door opening and closing. Lockable and equipped with 4 keys as standard with the ability to add a padlock for extra security when required.

Double stainless-steel inner doors to prevent cooling loss when opening the outer door, easy to clean.

Microprocessor control system

· Microcomputer electronic thermostat, LED temperature display, display precision 1°C, adjustable cabinet temperature set point -40°C~-86°C.
· Cabinet temperature/voltage/ambient temperature checking are available.
· Multiple alarm functions: high temperature alarm, low temperature alarm, sensor fault alarm, power failure alarm, low battery power alarm, open door alarm and high ambient temperature alert.
· Sound and light alarm mode, attachable to remote alarm interface.
· Battery backup alarm function operates continuously for >24hrs in the event of a power outage.
· Standard configuration: RS485 port and USB interface.
· Standard 5V power supply available for test equipment.
· Optional IoT module.

Superior thermal insulation performance

70mm super thick insulation layer design, aviation vacuum insulation material VIP, thickness of 25 mm or more, 4 layers of silicone seal, superior thermal insulation and energy saving effect.

Porthole

Portholes as standard, allows for independent testing of cabinet temperature.

Security lock

Standard door lock and padlock to ensure sample security and prevent unauthorised access.

USB data storage

Capable of storing more than 15 years of data.

Specifications

	Model	DW-86L338J / DW-86L338JA	DW-86L388J	DW-86L486E	DW-86L490J / DW-86L490JA	DW-86L578J / DW-86L578JA	DW-86L628E
Technical Data	Cabinet Type	Upright	Upright	Upright	Upright	Upright	Upright
	Climate Class	N	N	N	N	N	N
	Cooling Type	Direct cooling	Direct cooling	Direct cooling	Direct cooling	Direct cooling	Direct cooling
	Defrost Mode	Manual	Manual	Manual	Manual	Manual	Manual
	Refrigerant	HC	HC	HC	HC	HC	HC
	Sound level (dB(A))	50	50	49	50	50	49
Performance	Cooling Performance (°C)	-86	-86	-86	-86	-86	-86
	Temperature Range (°C)	-40～-86	-40～-86	-40～-86	-40～-86	-40～-86	-40～-86
Control	Controller	Microprocessor	Microprocessor	Microprocessor	Microprocessor	Microprocessor	Microprocessor
	Display	LED	LED	LED	LED	LED	LED
Electrical Data	Power Supply (V/Hz)	220～240/50 | 115/60 | 208～230/60	220～240/50	220～240/50	220～240/50 | 208～230/60	220～240/50 | 120/60 | 208～230/60	220～240/50
	Power (W)	650 | 700 | 1000	650	1000	900 | 1000	750 | 1000 | 1000	1200
	Electrical Current (A)	7.5 | 12 | 7.5	5	10	8 | 8	7.5 | 12 | 9	11
Dimensions	Capacity (L/Cu.Ft)	338/11.9	388/13.7	486/17.1	490/17.3	578/20.4	626/22.1
	Net/Gross Weight (approx) kg	238/278	255/286	290/310	295/335	300/330	301/323
	lbs	524.7/612.9	562.2/630.5	639.3/683.4	650.4/738.5	661.4/727.5	664.0/712.0
	Interior Dimension (W*D*H) mm	465*630*1165	465*716*1310	590*630*1310	590*630*1310	620*716*1310	760*630*1310
	in	18.3*24.8*45.9	18.3*28.2*51.6	23.3*24.8*51.6	23.2*24.8*51.6	24.4*28.2*51.6	29.9*24.8*51.6
	Exterior Dimension (W*D*H) mm	830*893*1846	812*980*1980	945*900*1980	860*900*1980	903*980*1960	1035*900*1980
	in	32.7*35.2*72.7	31.2*38.6*78.0	37.2*35.4*78.0	33.9*35.4*78.0	35.6*38.6*77.2	40.7*35.4*78.0
	Packing Dimension (W*D*H) mm	875*970*2010	893*1078*2135	995*995*2150	925*985*2150	950*1055*2125	1080*965*2150
	in	34.4*38.2*79.1	35.2*42.4*84.1	39.2*39.2*84.6	36.4*38.8*84.6	37.4*41.5*83.7	42.5*38.0*84.6
	Container load (20'/40'/40'H)	12/24/24	12/24/24	12/24/24	12/24/24	12/24/24	12/24/24
Alarms	High/Low Temperature	Y	Y	Y	Y	Y	Y
	Hot Condenser	Y	Y	Y	Y	Y	Y
	Power Failure	Y	Y	Y	Y	Y	Y
	High/Low Voltage	N/A	N/A	N/A	N/A	N/A	N/A
	Sensor Error	Y	Y	Y	Y	Y	Y
	Low Battery	Y	Y	Y	Y	Y	Y
	High Ambient Temperature	Y	Y	Y	Y	Y	Y
	Door Ajar	Y	Y	Y	Y	Y	Y
Accessories	Caster	Y	Y	Y	Y	Y	Y
	Foot	Y	Y	Y	Y	Y	Y
	Porthole	Y/2	Y/2	Y/2	Y/2	Y/2	Y/2
	Shelves/Inner doors	3/2	3/2	3/4	3/4	3/4	3/4
	USB Interface	Y	Y	Y	Y	Y	Y
	Remote Alarm (Dry contacts)	Y	Y	Y	Y	Y	Y
	5V Power Supply Port	Y	Y	Y	Y	Y	Y
	Temperature Recorder	Optional	Optional	Optional	Optional	Optional	Optional
	RS232/485 Port	Optional	Optional	Optional	Optional	Optional	Optional
	CO_2 Backup System	Optional	Optional	Optional	Optional	Optional	Optional
	LN2 Backup System	Optional	Optional	Optional	Optional	Optional	Optional
Others	Certification	CE | UL	CE	CE	CE | UL	CE,ENERGY STAR | UL,ENERGY STAR | UL	CE

· Product appearance and specifications are subject to change without notice
· DW-86L338J/490J/578/628/959 stainless steel interior optional

-86°C ULT Freezer

Specifications

	Model	DW-86L728J	DW-86L728JA	DW-86L828J	DW-86L828JA	DW-86L100J	DW-86W100J	DW-86W420J	DW-86W420JA
Technical Data	Cabinet Type	Upright	Upright	Upright	Upright	Upright	Chest	Chest	Chest
	Climate Class	N	N	N	N	N	N	N	N
	Cooling Type	Direct cooling	Direct cooling	Direct cooling	Direct cooling	Direct cooling	Direct cooling	Direct cooling	Direct cooling
	Defrost Mode	Manual	Manual	Manual	Manual	Manual	Manual	Manual	Manual
	Refrigerant	HC	HC	HC	HC	HC	HC	HC	HC
	Sound level (dB(A))	50	50	50	51.5	46.8	49	50	50
Performance	Cooling Performance (°C)	-86	-86	-86	-86	-86	-86	-86	-86
	Temperature Range (°C)	-40～-86	-40～-86	-40～-86	-40～-86	-40～-86	-40～-86	-40～-86	-40～-86
Control	Controller	Microprocessor	Microprocessor	Microprocessor	Microprocessor	Microprocessor	Microprocessor	Microprocessor	Microprocessor
	Display	LED	LED	LED	LED	LED	LED	LED	LED
Electrical Data	Power Supply (V/Hz)	220～240/50	120/60	208～230/60	220～240/50	208～230/60	220～240/50	120/60	220～240/50	220～240/50	208～230/60
	Power (W)	1000	1000	1000	1000	1100	680	680	550	1000
	Electrical Current (A)	10	18	10	10	10	3	6.5	4	7.5
Dimensions	Capacity (L/Cu.Ft)	728/25.7	728/25.7	828/29.2	828/29.2	100/3.5	100/3.5	420/14.8	420/14.8
	Net/Gross Weight (approx) kg	345/385	345/385	380/410	380/410	108/132	138/160	310/357	310/357
	Net/Gross Weight (approx) lbs	760.6/848.8	760.6/848.8	837.7/903.9	837.7/903.9	238/291	304.2/352.7	683.4/787.0	683.4/787.0
	Interior Dimension (W*D*H) mm	766*716*1310	766*716*1310	870*716*1310	870*716*1310	330*481*630	470*450*480	1367*462*652	1367*462*652
	Interior Dimension (W*D*H) in	30.2*28.2*51.6	30.2*28.2*51.6	34.3*28.2*51.6	34.3*28.2*51.6	13*19*25	18.5*17.7*18.9	53.8*18.2*25.7	53.8*18.2*25.7
	Exterior Dimension (W*D*H) mm	1049*980*1980	1049*980*1980	1145*980*1980	1145*980*1980	770*660*810	769*825*1120	2130*870*1020	2130*870*1020
	Exterior Dimension (W*D*H) in	41.3*38.6*78.0	41.3*38.6*78.0	45.1*38.6*78.0	45.1*38.6*78.0	30*26*32	30.3*32.5*44.1	83.9*34.3*40.2	83.9*34.3*40.2
	Packing Dimension (W*D*H) mm	1090*1050*2150	1090*1050*2150	1190*1045*2150	1190*1045*2150	830*710*970	845*855*1250	2195*895*1130	2195*895*1130
	Packing Dimension (W*D*H) in	42.9*41.3*84.6	42.9*41.3*84.6	46.9*41.1*84.6	46.9*41.1*84.6	32*28*38.5	33.3*33.7*49.2	90.6*38.2*45.8	90.6*38.2*45.8
	Container load (20'/40'/40'H)	12/20/20	12/20/20	8/20/20	8/20/20	44/88/88	12/24/48	6/12/24	6/12/24
Alarms	High/Low Temperature	Y	Y	Y	Y	Y	Y	Y	Y
	Hot Condenser	Y	Y	Y	Y	Y	Y	Y	Y
	Power Failure	Y	Y	Y	Y	Y	Y	Y	Y
	High/Low Voltage	N/A	N/A	N/A	N/A	Y	N/A	N/A	N/A
	Sensor Error	Y	Y	Y	Y	Y	Y	Y	Y
	Low Battery	Y	Y	Y	Y	Y	Y	Y	Y
	High Ambient Temperature	Y	Y	Y	Y	Y	Y	Y	Y
	Door Ajar	Y	Y	Y	Y	Y	Y	Y	Y
Accessories	Caster	Y	Y	Y	Y	Y	Y	Y	Y
	Foot	Y	Y	Y	Y	Y	Y	Y	Y
	Porthole	Y/2	Y/2	Y/2	Y/2	Y/1	Y/1	Y/1	Y/1
	Shelves/Inner doors	3/4	3/4	3/4	3/4	1/2	-/1	-/3	-/3
	USB Interface	Y	Y	Y	Y	Y	Y	Y	Y
	Remote Alarm	Y	Y	Y	Y	Y	Y	Y	Y
	5V Power Supply Port	Y	Y	Y	Y	Y	N/A	N/A	N/A
	Temperature Recorder	Optional	Optional	Optional	Optional	/	Optional	Optional	Optional
	Rs232/485 Interface	Optional	Optional	Optional	Optional	-/Y	Optional	Optional	Optional
	CO₂ Backup System	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional
	LN₂ Backup System	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional
Others	Certification	CE,ENERGY STAR	UL	CE,ENERGY STAR	UL	CE	UL	CE	CE	UL

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