

PRODUCT SPECIFICATIONS

Model	HLR-118SF	HLR-310SF	HLR-118FL	HLR-310FL		
<b>Parameters</b>						
<b>Technical Data</b>	Type	Under-Counter	Upright	Under-Counter	Upright	
	Climate Class	N, ST	N, ST	N, ST	N, ST	
	Cooling Type	Forced Air Cooling	Forced Air Cooling	Forced Air Cooling	Forced Air Cooling	
	Defrost Mode	Auto	Auto	Auto	Auto	
	Refrigerant	R134a	R600a	R134a	R600a	
	Noise(dB(A))	38	40	38	40	
<b>Performance</b>	Temperature Range(°C)	3~16°C Adjustable	3~16°C Adjustable	3~16°C Adjustable	3~16°C Adjustable	
	Ambient Temperature(°C)	16~38°C	16~38°C	16~38°C	16~38°C	
<b>Control</b>	Controller	Microprocessor	Microprocessor	Microprocessor	Microprocessor	
	Display	LED	LED	LED	LED	
<b>Electrical Data</b>	Power Supply(V/HZ)	220/50	220/50	220/50	220/50	
	Power(W)	140	210	140	210	
	Electrical Current(A)	1.03	1.26	1.03	1.26	
	Capacity(L/Cu.Ft)	118/4.2	310/10.9	118/4.2	310/10.9	
<b>Dimension</b>	Net/Gross Weight(approx)	(kg)	44/49	72/83	44/49	72/83
		(lbs)	97/108	158.7/183	97/108	158.7/183
	Interior Dimension(W*D*H)	(mm)	515×415×630	560×500×1290	515×415×630	560×500×1290
		(in)	20.3×16.3×24.8	22.0×19.7×50.8	20.3×16.3×24.8	22.0×19.7×50.8
	Exterior Dimension(W*D*H)	(mm)	597×635×835	605×598×1840	597×635×835	605×598×1840
		(in)	23.5×25×32.9	23.8×23.6×73.6	23.5×25×32.9	23.8×23.6×73.6
	Packing Dimension(W*D*H)	(mm)	608×690×910	660×670×2020	608×690×910	660×670×2020
		(in)	26.8×27.2×35.8	26×26.4×79.5	26.8×27.2×35.8	26×26.4×79.5
<b>Alarms</b>	Container Load(20'/40'/40'H)	48/102/102	27/57/57	48/102/102	27/57/57	
	High/Low Temperature	Y	Y	Y	Y	
	Power Failure	Optional	Optional	Optional	Optional	
	Sensor Error	Y	Y	Y	Y	
	Door Ajar	Y	Y	Y	Y	
	Remote Alarm	Optional	Optional	Optional	Optional	
<b>Accessories</b>	Caster	2	4	2	4	
	Foot	2	2	2	2	
	Shelves/Baskets	2/1	4/0	2/1	4/0	
	Water tray	1	1	1	1	
	Padlock Adapter Kit/Quantity	/	1	/	1	
	Built-in Key Door Lock/Quantity	2	2	2	2	
<b>Others</b>	Certificate	CE ATEX	CE ATEX	CE ATEX	CE ATEX	
Temperature Setting Mode	Password Protection	Password Protection	Password Protection	Password Protection		
Temperature Sensor	1 Resistance Thermometer	1 Resistance Thermometer	1 Resistance Thermometer	1 Resistance Thermometer		
Power Consumption (kWh/24h)	0.7	0.8	0.7	0.8		
<b>Material</b>						
Exterior Material	Sprayed Cold Plate	Sprayed Cold Plate	Sprayed Cold Plate	Sprayed Cold Plate		
Interior Material/Colour	PS Plate/White	PS Plate/White	Antistatic PS Plate/Black	Antistatic PS Plate/Black		
Insulation	Cyclopentane/Isopentane	Cyclopentane/Isopentane	Cyclopentane/Isopentane	Cyclopentane/Isopentane		
Outside Door/Quantity	Foaming Door/1	Foaming Door/1	Foaming Door/1	Foaming Door/1		
Outside Door Sealing Structure	Sealing Strip	Sealing Strip	Sealing Strip	Sealing Strip		
Shelves Material/Quantity	Tempered Glass/2	Tempered Glass/4	Tempered Glass/2	Tempered Glass/4		
Adjustable Shelves	Y	Y	Y	Y		
<b>Function Parameters</b>						
Alarm System	Y	Y	Y	Y		
Boot Delay Protection	Y	Y	Y	Y		
Display Screen Password Protection	Y	Y	Y	Y		
<b>Compressor</b>						
Compressor Type	Fully Closed	Fully Closed	Fully Closed	Fully Closed		
Brand	Secop	Donper	Secop	Donper		
Compressor Power(W)	172	138	172	138		
Compressor Quantity	1	1	1	1		
<b>Condenser</b>						
Type(Forced Cooling)	Back Condenser	Wire and Tube Forced Condenser	Back Condenser	Wire and Tube Forced Condenser		
Material(Forced Cooling)	Steel Tube	Steel Tube	Steel Tube	Steel Tube		
Outside Fan	No	EBM	No	EBM		
Internal Temperature Uniformity	±3	±3	±3	±3		
Internal Temperature Accuracy	1	1	1	1		

# Haier Biomedical

Intelligent Protection of Life Science

## Sparkfree Refrigerators ATEX Certified



**360° Explosion Proof Interior**  
with ATEX II C-T6  
EU Explosion Proof Certification.



**Setting Temperature Range +3°C to +16°C**  
with precise control, keeps internal temperature variation within 3°C for great temperature uniformity.



**Clear and Complete Alarm System with One Key Search**  
multiple alarms and data function which allows users to check and save historical data, which is useful and convenient for laboratory inspection processes.

Haier Biomedical's range of ATEX II C-T6 Explosion Proof certified laboratory refrigerators.



**Haier Medical and Laboratory Products Co., Ltd**

Brand Building, Haier Industrial Park, No. 1  
Haier Road, Qingdao, 266101, P.R.China  
Tel: +86-0532-88936011 / 5955  
Website: www.haiermedical.com

## Safer by Design

The new sparkfree laboratory refrigerator, developed in-house, offers 360° internal explosion protection and is fully compliant and certified to the ATEX II C-T6 EU standard. This is one of the highest ATEX rated refrigerators available to life science customers, requiring a safety barrier to protect the temperature sensor. Utilising a zener barrier, the new sparkfree laboratory refrigerators use quick fuse, a current

limiting resistance or voltage limiting diode. This limits the input of electrical energy to ensure that the sensor will not be a source of ignition for flammable and explosive substances in the cabinet. This is different from other sparkfree refrigerators, ensuring that the Haier Biomedical units are safer by design. This means that these appliances can be used in zone 2 environments.



### ATEX II C-T6 EU Explosion Proof Certified

Our 360° all-around explosion proof system uses an antistatic liner, gasket and explosion proof fan motor. It is also equipped with an overcurrent and overvoltage protection system. All components within the unit are earthed to ensure static is discharged safely.



### Multiple Alarms

The refrigerator comes with hi/low temperature alert, door open alarm, sensor error and optional power failure alarm. Optional remote alarm contacts ensure the unit can be monitored remotely and will rapidly alert users when in an alarm state.



### Energy Efficient Design

The carbon-hydrogen cooling system doubles the cooling efficiency and saves half the energy when compared to traditional refrigerants. In addition, the cabinet is fitted with an energy saving explosion proof fan.



### Safe and Secure

Refrigerator doors have a built-in lock and are also equipped with an adapter kit to allow user to add a padlock. The control panel is lockable to prevent anyone turning off the unit by mistake or adjusting the temperature by accident.



### Low Noise Design

Designed to keep noise to a minimum, the refrigerators have a noise level of below 40dB, creating a quieter working environment.



### Toughened Glass Shelves

Adjustable, toughened glass shelves with 40kg capacity allows user to store different sizes of reagents.

## PRODUCT ADVANTAGES



Cabinet Structure



Glass Shelf



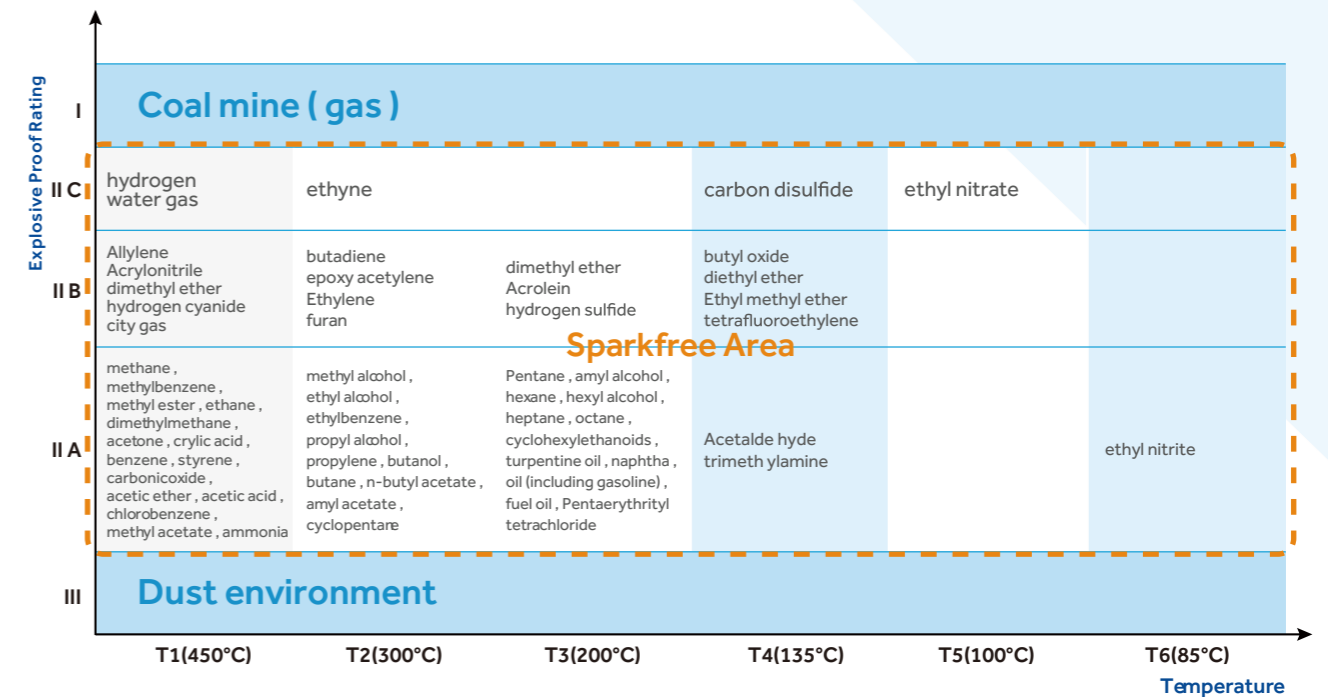
ATEX Certification Label



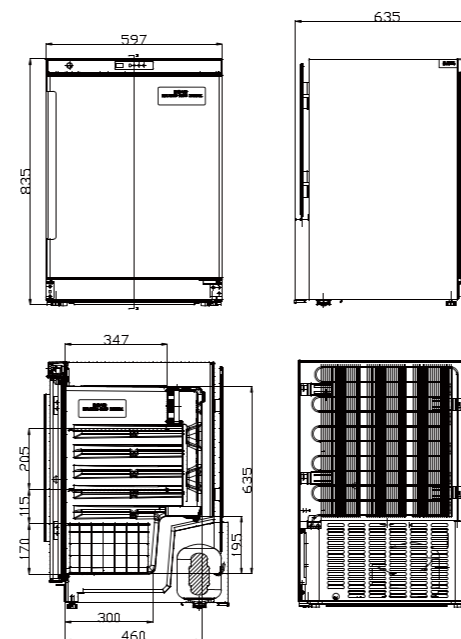
Explosion Proof Cabinet/Fan

## ATEX Certification

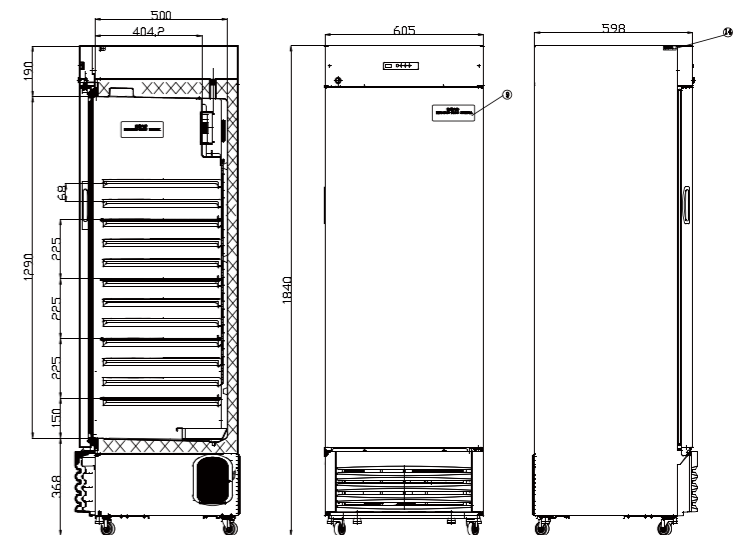
Haier Biomedical sparkfree refrigerators are ATEX certified in the application range II 3G Ex nA II T6. This means that the appliances can be found in the whole 2 zone environment, making our range one of the safest laboratory grade refrigerators available.



## PRODUCT DIMENSION DRAWING



HLR- 118SF/FL



HLR- 310SF/FL

PRODUCT SPECIFICATIONS

Model		DW-25L92SF	DW-25L92FL	
Technical Data	Cabinet Type	Upright	Upright	
	Climate Class	4	4	
	Cooling Type	Direct cooling	Direct cooling	
	Defrost Mode	Manual	Manual	
	Refrigerant	HC	HC	
	Sound Level(dB(A))	27	27	
Performance	Cooling Performance(°C)	-25	-25	
	Temperature Range(°C)	-10~-25	-10~-25	
Control	Controller	Microprocessor	Microprocessor	
	Display	LED	LED	
Electrical Data	Power Supply(V/Hz)	220-240/50	220-240/50	
	Power(W)	160	160	
	Electrical Current(A)	0.75	0.75	
Dimensions	Capacity(L/Cu.Ft)	92/3.3	92/3.3	
	Net/Gross Weight (approx)	kg	46/51	46/51
		lbs	101/113	101/113
	Interior Dimension (W*D*H)	mm	435*410*630	435*410*630
		in	17.1*16.1*24.8	17.1*16.1*24.8
	Exterior Dimension (W*D*H)	mm	597*625*835	597*625*835
		in	23.5*24.6*32.9	23.5*24.6*32.9
	Packing Dimension (W*D*H)	mm	680*690*910	680*690*910
in		26.8*27.2*35.8	26.8*27.2*35.8	
Container Load(20'/40'/40'H)		48/102/102	48/102/102	
Functions	High/Low Temperature	Y	Y	
	Remote Alarm	Y	Y	
	Power Failure	N	N	
	Sensor Error	Y	Y	
	Low Battery	N	N	
	High Ambient Temperature	N	N	
	Door Ajar	Y	Y	
Accessories	Caster	Y	Y	
	Foot	Y	Y	
	Porthole	N	N	
	Drawers/Inner Doors	3/-	/	
	USB Interface	N	N	
	Temperature Recorder	N	N	
Others	Certification	CE ATEX	CE ATEX	
	Interior Material/Colour	PS Plate/white	Antistatic PS Plate/black	

# Haier Biomedical

Intelligent Protection of Life Science

## Spark Free Freezer



DW-25L92SF/FL

**Interior Designed for Explosion Proof, HC Refrigerant System for Energy Savings, and Smart System Control**



### Explosion Proof Interior

SF series freezers feature standard interior design, door frame, and drawer. FL series freezers feature antistatic interior design, door frame, and stainless steel shelves. All metal parts are grounded reliably and interior design is explosion proof. Certificates include China anti-explosion proof and EU explosion proof ATEX II C-T6



### HC System to save energy

- Hydrocarbon compressor, and hydrocarbon refrigerants complete a true green, environmentally safe refrigeration system
- Cyclo-isopentane polyurethane foam insulation meets EU ROHS directive for a green and safe environment
- Optimized hydrocarbon refrigeration system design ensures a more energy efficient operation



### Excellent temperature uniformity

Cold shelf evaporator design allows a faster cool down, and more uniform temperature distribution, typically  $\pm 3^{\circ}\text{C}$



### Low noise

Unique structural design and system emits only 27 dba in sound level, eliminating unhealthy high pitch noise

### Haier Medical and Laboratory Products Co., Ltd

Brand Building, Haier Industrial Park, No. 1  
Haier Road, Qingdao, 266101, P.R.China  
Tel: +86-0532-88936011 / 5955  
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## Safer by Design



### Micro-processor control system

- Micro processor control with LED temperature display and adjustable range of -10°C to -25°C; 1°C increment;
- Multiple alarms including high temperature, low temperature, sensor alarm and door ajar alarm;
- Alarms are in buzzer and flashing light. Remote alarm contacts are available.



### Safety lock

Unit door is lockable for safety.



### Warning labels

Warning label on the unit front for SF series with non-antistatic interior design.



### Drawers and shelves

Three plastic drawers are standard for SF series units. Three stainless steel shelves are standard for FL series units.



### Under-counter design

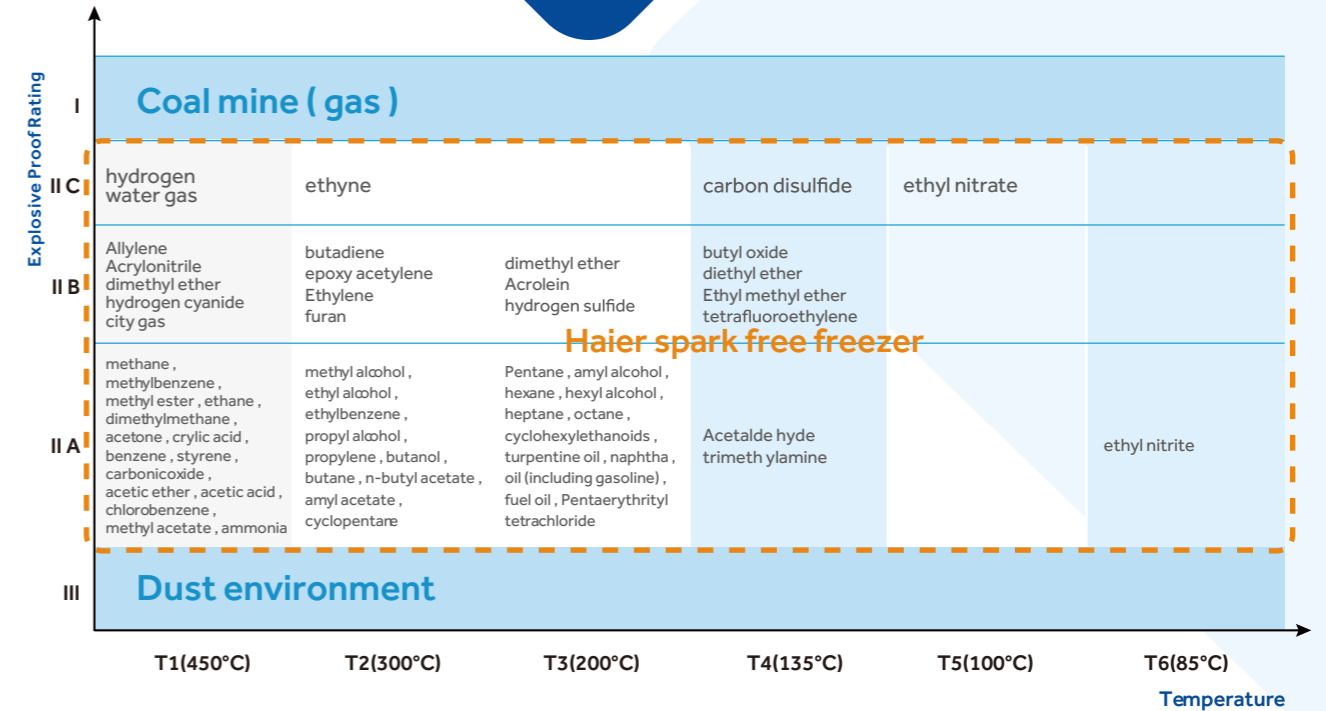
Unit dimensions are designed to fit under a counter.



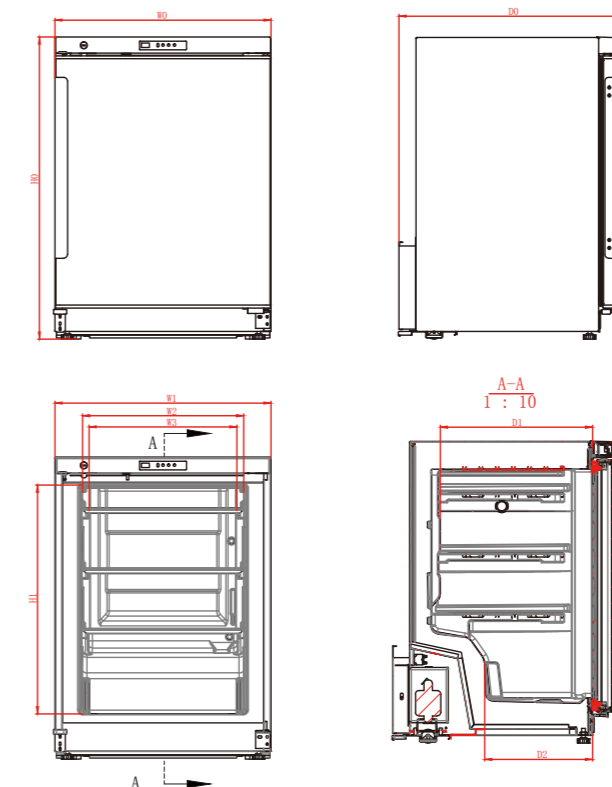
### Caster

Standard caster and leveling leg design for ease of maneuvering and securing the unit on ground.

## Application range



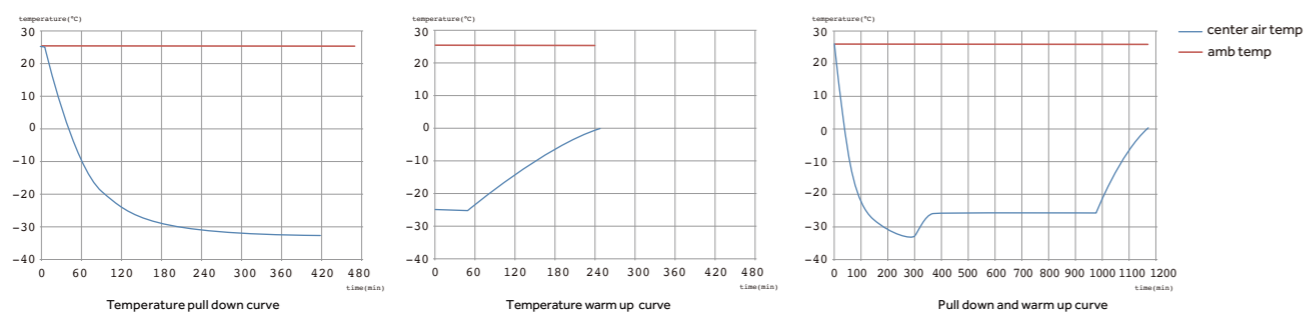
## PRODUCT DIMENSION DRAWING



RAMARK  
W0 --- TOTAL WIDTH  
W1 --- FREEZER WIDTH  
W2 --- INNER CABINET WIDTH  
W3 --- SHELF WIDTH  
D0 --- TOTAL DEPTH  
D1 --- INNER CABINET DEPTH  
D2 --- SHELF DEPTH  
H0 --- TOTAL HEIGHT  
H1 --- INNER CABINET HEIGHT

MODEL	CODE	W0	W1	W2	W3	H0	H1	D0	D1	D2
DW-25L92SF/FL		642mm	597mm	435mm	410mm	835mm	630mm	625mm	410mm	294mm

## TYPICAL PERFORMANCE CHARACTERISTICS IN 25°C AMBIENT



PRODUCT SPECIFICATIONS

Model		DW-30L278SF	DW-30L278FL	
Technical Data	Cabinet Type	Upright	Upright	
	Climate Class	4	4	
	Cooling Type	Direct cooling	Direct cooling	
	Defrost Mode	Manual	Manual	
	Refrigerant	HC	HC	
	Sound Level(dB(A))	40	40	
Performance	Cooling Performance(°C)	-30	-30	
	Temperature Range(°C)	-10~-30	-10~-30	
Control	Controller	Microprocessor	Microprocessor	
	Display	LCD	LCD	
Electrical Data	Power Supply(V/Hz)	220-240/50	220-240/50	
	Power(W)	330	330	
	Electrical Current(A)	2.0	2.0	
Dimensions	Capacity(L/Cu.Ft)	278/9.8	278/9.8	
	Net/Gross Weight (approx)	kg	115/135	115/135
		lbs	254/298	254/298
	Interior Dimension (W*D*H)	mm	515*440*1220	515*440*1220
		in	20.3*17.3*48	20.3*17.3*48
	Exterior Dimension (W*D*H)	mm	742*718*1810	742*718*1810
		in	29.2*28.3*71.3	29.2*28.3*71.3
	Packing Dimension (W*D*H)	mm	805*725*1970	805*725*1970
in		31.7*28.5*77.6	31.7*28.5*77.6	
Container Load(20'/40'/40'H)		23/46/46	23/46/46	
Functions	High/Low Temperature	Y	Y	
	Remote Alarm	N	N	
	Power Failure	Y	Y	
	Sensor Error	Y	Y	
	Low Battery	N	N	
	High Ambient Temperature	N	N	
	Door Ajar	N	N	
Accessories	Caster	Y	Y	
	Foot	Y	Y	
	Porthole	N	N	
	Drawers/Inner Doors	6/-	6/-	
	USB Interface	N	N	
	Temperature Recorder	N	N	
Others	Certification	CE ATEX	CE ATEX	
	Interior Material/Colour	PS Plate/white	Antistatic PS Plate/black	

# Haier Biomedical

Intelligent Protection of Life Science

## Spark Free Freezer



DW-30L278SF/FL



**Interior Designed for Explosion Proof, HC Refrigerant System for Energy Savings, and Smart System Control**



### Explosion Proof Interior

SF series freezers feature standard interior design, door frame, and drawer. FL series freezers feature antistatic interior design, door frame, and drawer. All metal parts are grounded reliably and interior design is explosion proof. Certificates include China anti-explosion proof and EU explosion proof ATEX II C-T6



### HC System to save energy

- Imported hydrocarbon compressor, and hydrocarbon refrigerants complete a true green, environmentally safe refrigeration system
- Cyclo-isopentane polyurethane foam insulation meets EU ROHS directive for a green and safe environment
- Optimized hydrocarbon refrigeration system design ensures a more energy efficient operation



### Excellent temperature uniformity

Cold shelf evaporator design allows a faster cool down, and more uniform temperature distribution, typically  $\pm 4^{\circ}\text{C}$



### Low noise

Unique structural design and system emits only 40 dba in sound level, eliminating unhealthy high pitch noise

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## Safer by Design



### Micro-processor control system

- Micro processor control with LCD temperature display and adjustable range of -10°C to -30°C ; 0.1°C increment;
- Multiple alarms including high temperature, low temperature, sensor alarm and power failure alarm;
- Alarms are in buzzer and flashing light. Continuous alarm for more than 24 hours after power failure



### Good thermal insulation

The super-thick insulation layer and removable door gasket design are adopted to improve the thermal insulation and energy-saving effects and enhance the reliability of the refrigerator



### Drawers

The SF series of freezers are provided with six common plastic drawers and the FL series are provided with six drawers made of anti-static materials. Each drawer has a label sticker slot to meet different storage and identification requirements



### Caster

Standard caster and leveling leg design for ease of maneuvering and securing the unit on ground



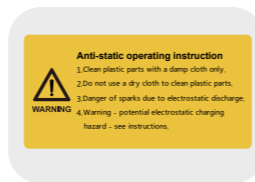
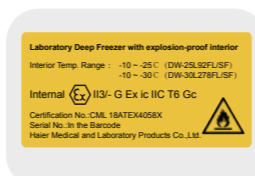
### Safety lock

Dual-lock design of lock catch + built-in lock. A padlock can be added to the lock catch to ensure double safety

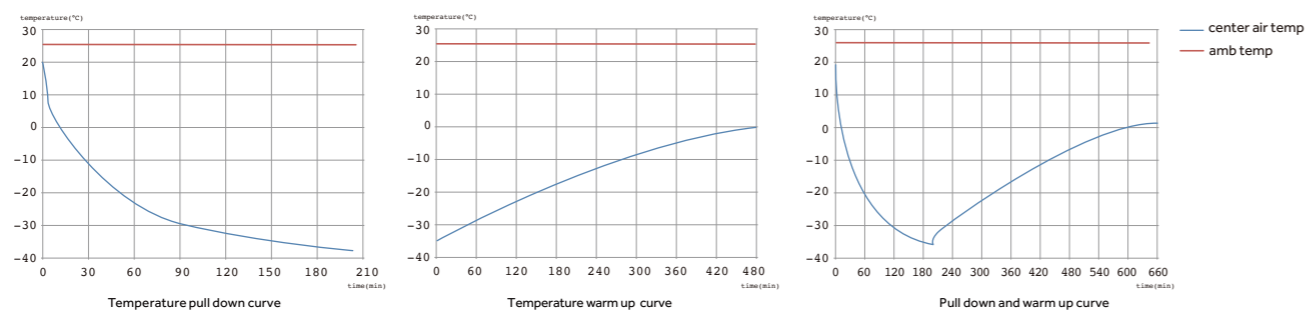


### Warning labels

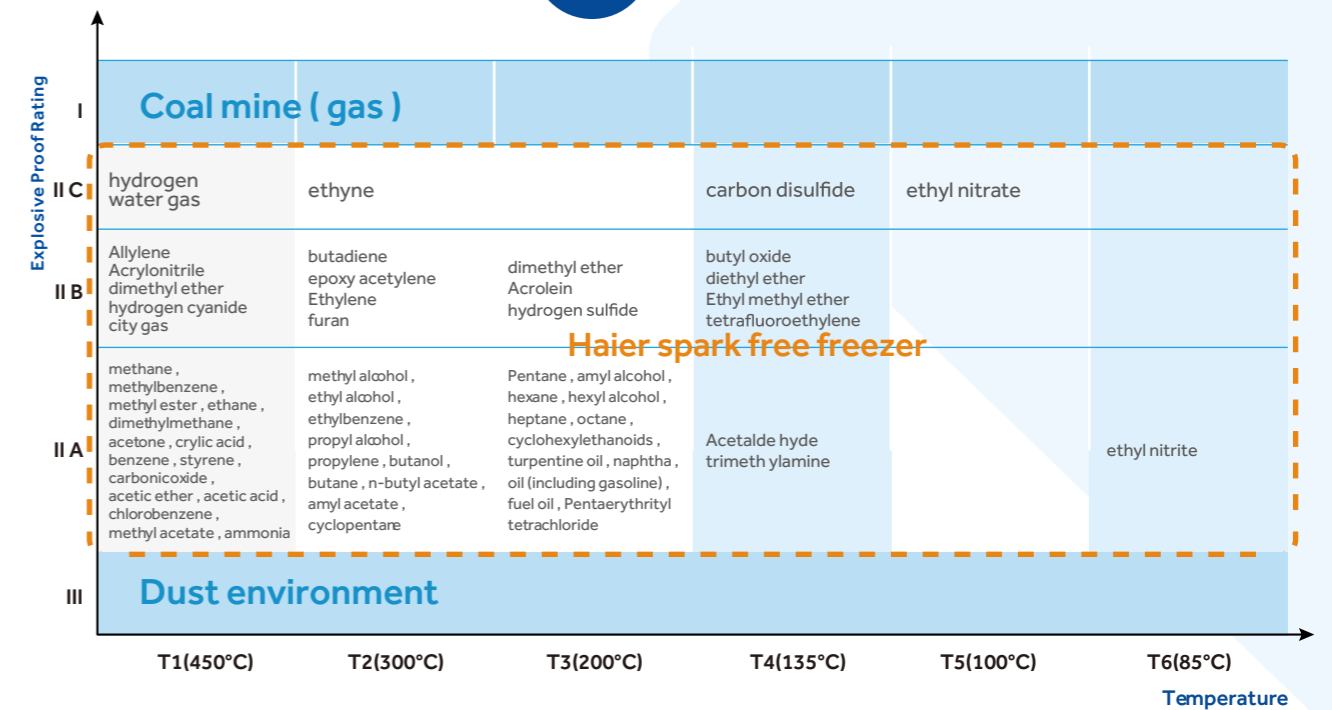
Warning label on the unit front for SF series with non-antistatic interior design



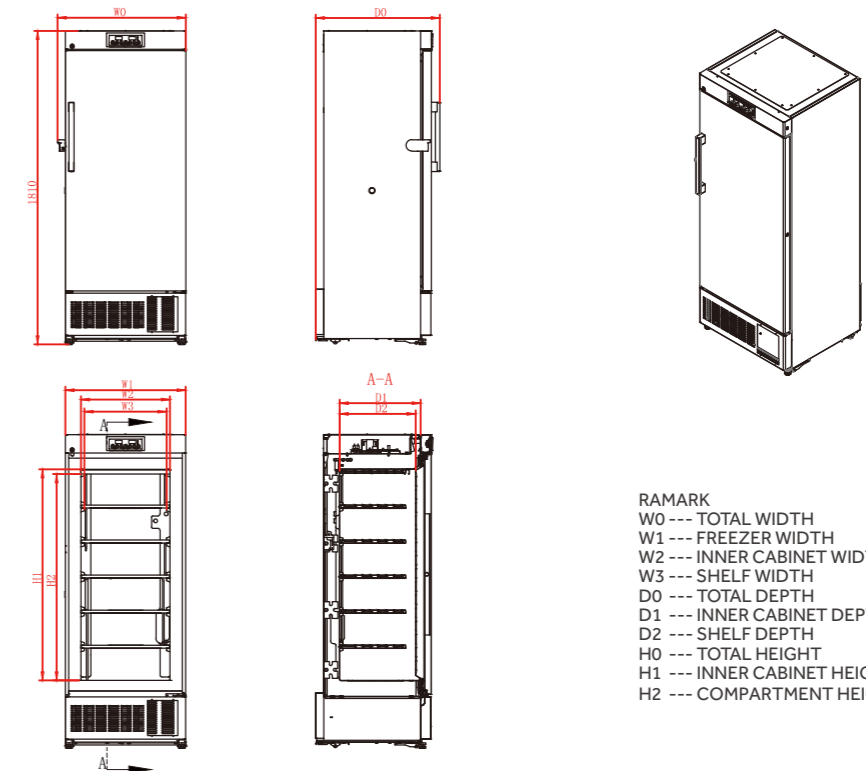
## TYPICAL PERFORMANCE CHARACTERISTICS IN 25°C AMBIENT



## Application range



## PRODUCT DIMENSION DRAWING



RAMARK  
W0 --- TOTAL WIDTH  
W1 --- FREEZER WIDTH  
W2 --- INNER CABINET WIDTH  
W3 --- SHELF WIDTH  
D0 --- TOTAL DEPTH  
D1 --- INNER CABINET DEPTH  
D2 --- SHELF DEPTH  
H0 --- TOTAL HEIGHT  
H1 --- INNER CABINET HEIGHT  
H2 --- COMPARTMENT HEIGHT

MODEL	CODE	W0	W1	W2	W3	H0	H1	H2	D0	D1	D2
DW-30L278SF/FL		742mm	695mm	515mm	475mm	1810mm	1220mm	1192mm	718mm	468mm	440mm