

PRODUCT SPECIFICATIONS

Model	HLR-118SF	HLR-310SF	HLR-118FL	HLR-310FL		
<b>Parameters</b>						
Technical Data	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	
Performance	Noise ((dB(A))	38	40	38	40	
	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	
Control	Controller	Microprocessor	Microprocessor	Microprocessor	Microprocessor	
	Display	LED	LED	LED	LED	
Electrical Data	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	
Dimension	Capacity (L/Cu.Ft)	118/4.2	310/10.9	118/4.2	310/10.9	
	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	
Alarms	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	
	Sensor Error	Y	Y	Y	Y	
Accessories	Door Ajar	Y	Y	Y	Y	
	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	
Others	Built-in Key Door Lock/Quantity	2	2	2	2	
	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.



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## 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



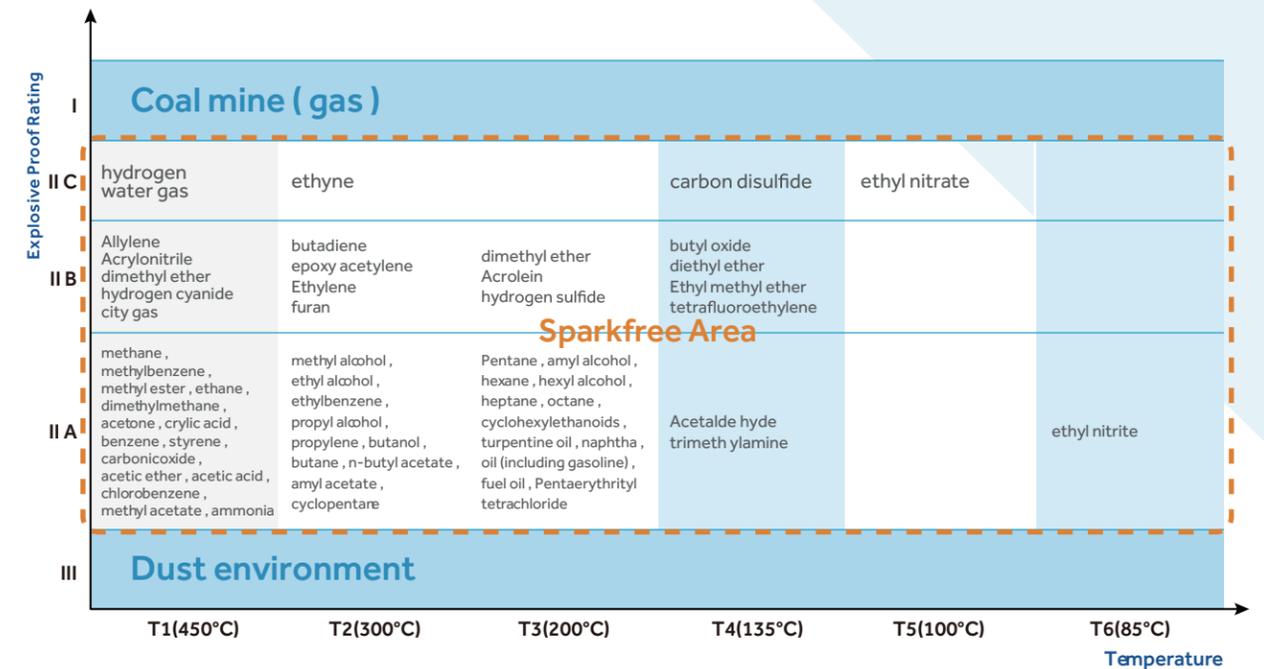
ATEX Certification Label



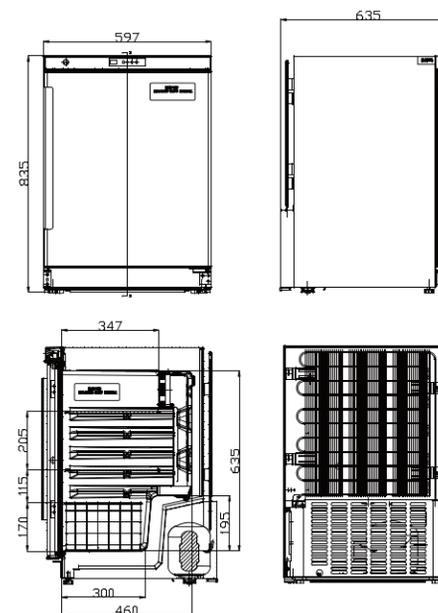
Explosion Proof Cabinet/Fan

## ATEX Certification

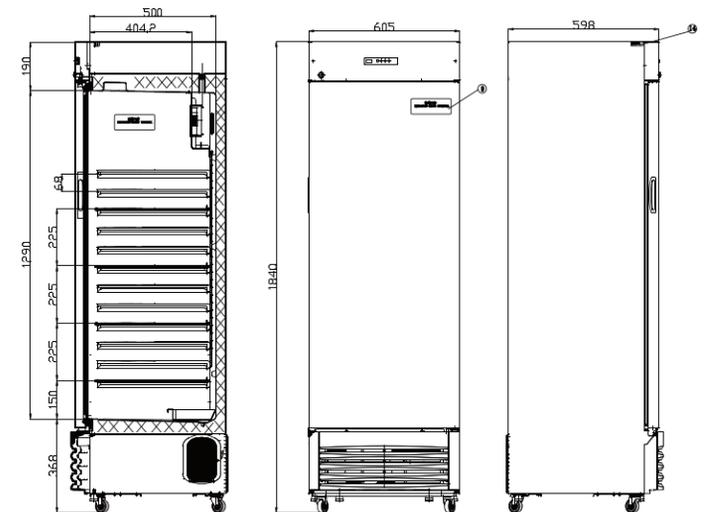
Haier Biomedical sparkfree refrigerators are ATEX certified in the application range II 3G Ex nA II T6. This means that the appliances can be found in the whole 2 zone environment, making our range one of the safest laboratory grade refrigerators available.



## PRODUCT DIMENSION DRAWING



HLR- 118SF/FL



HLR- 310SF/FL