

Sparkfree Refrigerators

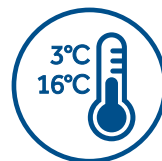
ATEX Certified



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



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 excellent 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.

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 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.



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.



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.



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



Energy Efficient Design
The hydrocarbon cooling system doubles the cooling efficiency and reduces energy costs by 50% when compared to traditional refrigerants. In addition, the cabinet is fitted with an energy saving explosion proof fan.



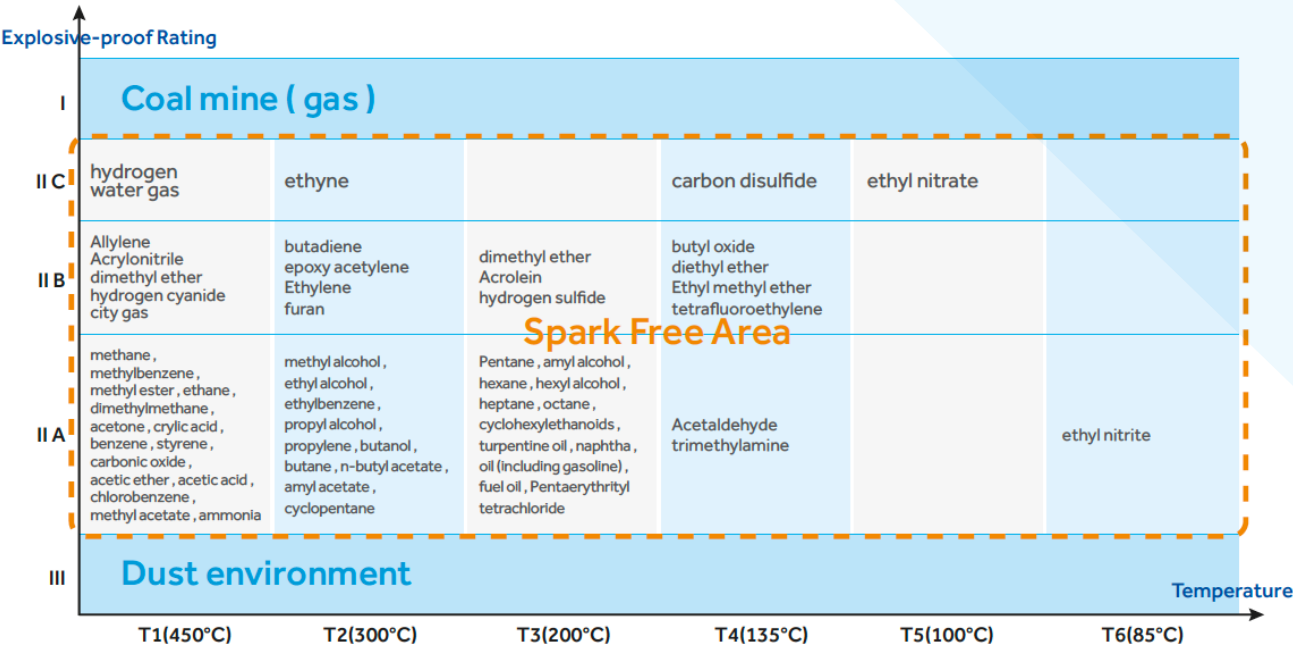
Flexible Configuration
Adjustable, toughened glass shelves with 40kg capacity allow user to store different sizes of reagents.

PRODUCT ADVANTAGES

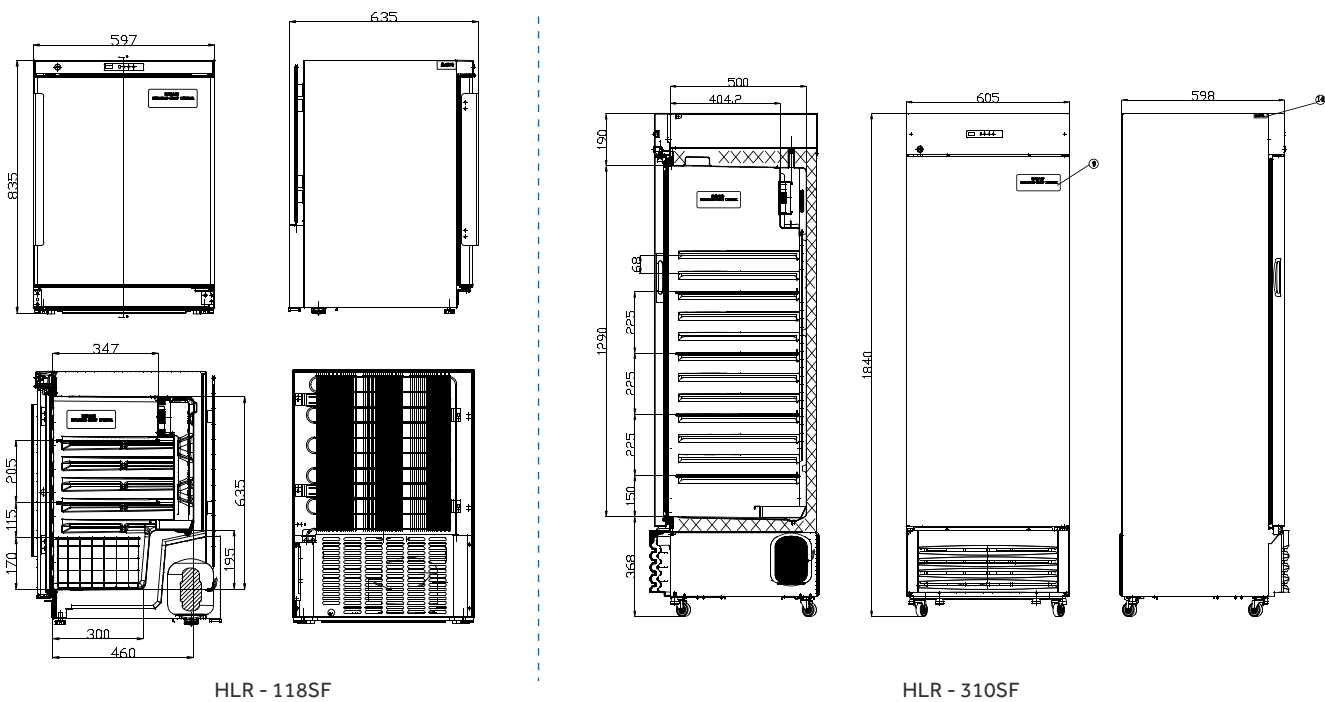
			
Cabinet Structure	Glass Shelves	ATEX Certification Label	Explosion Proof Cabinet/Fan

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 (including II A, II B and II C), making our range one of the safest laboratory grade refrigerators available, helping to lower costly insurance premiums.



PRODUCT DIMENSION DRAWING



PRODUCT SPECIFICATIONS

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

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