

Intelligent Protection of Life Science

Sparkfree Refrigerators

ATEX Certified









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

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



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

Intelligent Protection of Life Science

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







Glass Shelves





ATEX Certification Label

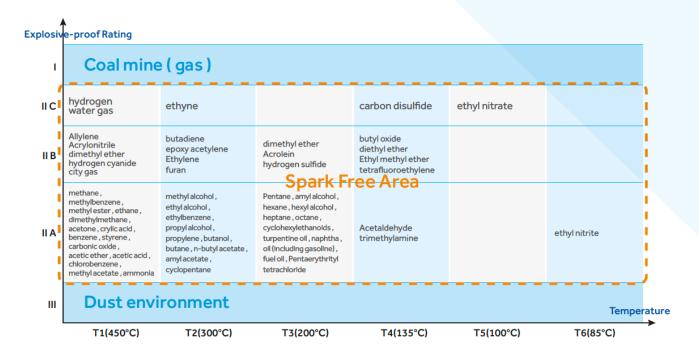




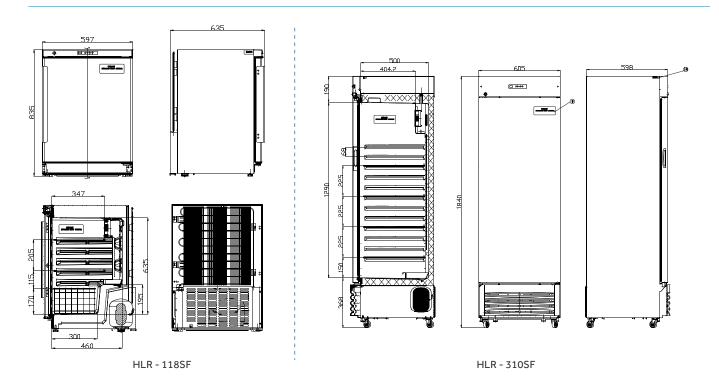
Explosion Proof Cabinet/Fan

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
arameters			
	Туре	Under-Counter	Upright
Technical Data	Climate Class	N, ST	N, ST
	Cooling Type	Forced Air Cooling	Forced Air Cooling
	Defrost Mode	Auto	Auto
	Refrigerant	R134a	R600a
	Noise((dB(A))	38	40
Performance	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
	Capacity(L/Cu.Ft)	118/4.2	310/10.9
		44/49	72/83
	Net/Gross Weight(approx)	97/108	158.7/183
		515×415×630	560×500×1290
	Interior Dimension(W*D*H)	20.3×16.3×24.8	22.0×19.7×50.8
Dimension			
	Exterior Dimension(W*D*H)	597×635×835	605×598×1840
		23.5×25×32.9	23.8×23.6×73.6
	Packing Dimension(W*D*H)	608×690×910	660×670×2020
		26.8×27.2×35.8	26×26.4×79.5
	Container Load(20'/40'/40'H)	48/102/102	27/57/57
Functions	High/Low Temperature	Y	Υ
	Power Failure	Optional	Optional
	Sensor Error	Υ	Υ
	Door Ajar	Y	Y
	Remote Alarm	Optional	Optional
	Caster	2	4
	Foot	2	2
Accessories	Shelves/Baskets		
		2/1	4/0
	Water tray	1	1
	Padlock Adapter Kit/Quantity	/	1
	Built-in Key Door Lock/Quant	2	2
Others	Certificate	CE ATEX	CE ATEX
Temperature Setting Mode		Password Protection	Password Protection
Temperature Sensor		1 Resistance Thermometer	1 Resistance Thermometer
Power Consum	ption (kWh/24h)	0.7	0.8
Material			
Exterior Material		Sprayed Cold Plate	Sprayed Cold Plate
Interior Material/Colour		PS Plate/White	PS Plate/White
Insulation		Cyclopentane/Isopentane	Cyclopentane/Isopentane
Outside Door/C	Quantity	Foaming Door/1	Foaming Door/1
		Sealing Strip	Sealing Strip
	ealing Structure		
Shelves Materia		Tempered Glass/2	Tempered Glass/4
Adjustable Shel		Y	Y
Function Para	meters		
Alarm System		Y	Y
Boot Delay Protection		Y	Υ
Display Screen	Password Protection	Y	Υ
Compressor			
Compressor Type		Fully Closed	Fully Closed
Brand		Secop	Donper
Compressor Power(W)		172	138
		1	1
		<u> </u>	-
Compressor Qu			
Compressor Qu Condenser	valina)	Balanca I	Mine and Table For 100 1
Compressor Qu Condenser Type(Forced Co		Back Condenser	Wire and Tube Forced Condenser
Compressor Qu Condenser Type(Forced Co Material(Forced		Steel Tube	Steel Tube
Compressor Qu Condenser Type(Forced Co Material(Forced Outside Fan	d Cooling)		
Compressor Qu Condenser Type(Forced Co Material(Forced Outside Fan		Steel Tube	Steel Tube

