#### PRODUCT SPECIFICATIONS

Model		HLR-118SF	HLR-310SF	HLR-118FL	HLR-310FL	
Parameters						
l	Туре		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
Technical Data	Defrost Mode		Auto	Auto	Auto	Auto
	Refrigerant					
	Noise((dB(A))		R134a	R600a	R134a	R600a
			38	40	38	40
Performance	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
	Power Supply(V/HZ)		220/50	220/50	220/50	220/50
Electrical Data	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
	Not/Cross Weight(approx)	(kg)	44/49	72/83	44/49	72/83
	Net/Gross Weight(approx)	(lbs)	97/108	158.7/183	97/108	158.7/183
		(mm)	515×415×630	560×500×1290	515×415×630	560×500×1290
	Interior Dimension(W*D*H)	(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
Dimension	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
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	Container Load(20'/40'/40'H	1)	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
Alarms	Sensor Error		Y	Y	Y	Y
	Door Ajar		Y	Y	Y	Y
	Remote Alarm		Optional	Optional	Optional	Optional
Accessories	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	
Others	Certificate		CE ATEX	CE ATEX	CE ATEX	CE ATEX
Temperature Se	ettina Mode		Password Protection	Password Protection	Password Protection	Password Protection
Temperature Sensor			1 Resistance Thermometer	1 Resistance Thermometer	1 Resistance Thermometer	1 Resistance Thermometer
	ensor					
			0.7	0.8	07	0.8
ower Consump	ensor ption ( kWh/24h )		0.7	0.8	0.7	0.8
Power Consump Material	ption ( kWh/24h )					
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# Haier Biomedical Intelligent Protection of Life Science

# Sparkfree Refrigerators **ATEX Certified**

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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 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.

# 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



### 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.

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.



#### 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 Shelve

ATEX Certification Label

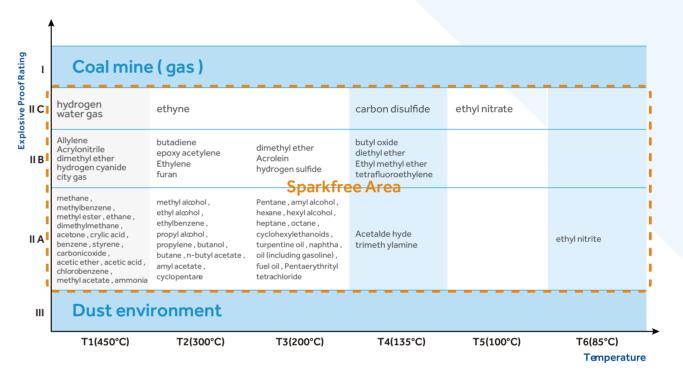


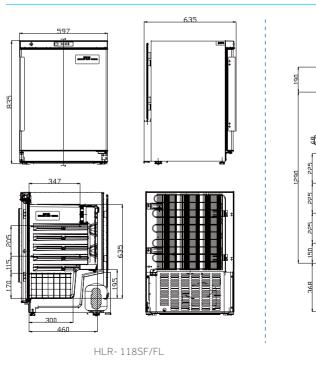


Explosion Proof Cabinet/Fan

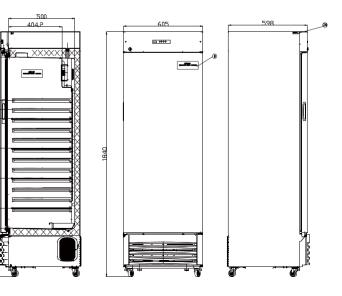
# **ATEX Certification**

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- 310SF/FL