

Sparkfree Refrigeration

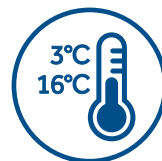
ATEX Certified



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



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



Adjustable Temperature
with precise control, keeps
internal temperature variation
within 3°C for excellent
temperature uniformity.



Energy Efficient
units that use HC
refrigeration, which saves up
to 50% in energy vs other
refrigerants.

Safer by Design

The new sparkfree laboratory refrigeration range, developed in-house, offers 360° internal explosion protection and is fully compliant and certified to the ATEX II C-T6 EU standard. The range 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 units 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 units, ensuring that the Haier Biomedical range is 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 units come 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.



Safe and Secure

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.



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.



Low Noise Design

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



Excellent Temperature Uniformity

Evaporator shelving is designed to provide faster cool down rates and a more uniform temperature distribution, typically $\pm 3^{\circ}\text{C}$.



Flexible Configuration (refrigerator)

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



Castors

Unit comes with castors and levelling feet to ensure unit is easy to move and secure in place.



Clear and Complete Alarm System with One Key Search (Refrigerator)

Multiple alarms and data function in refrigerators allow users to check and save historical data, which is useful and convenient for laboratory inspection processes.

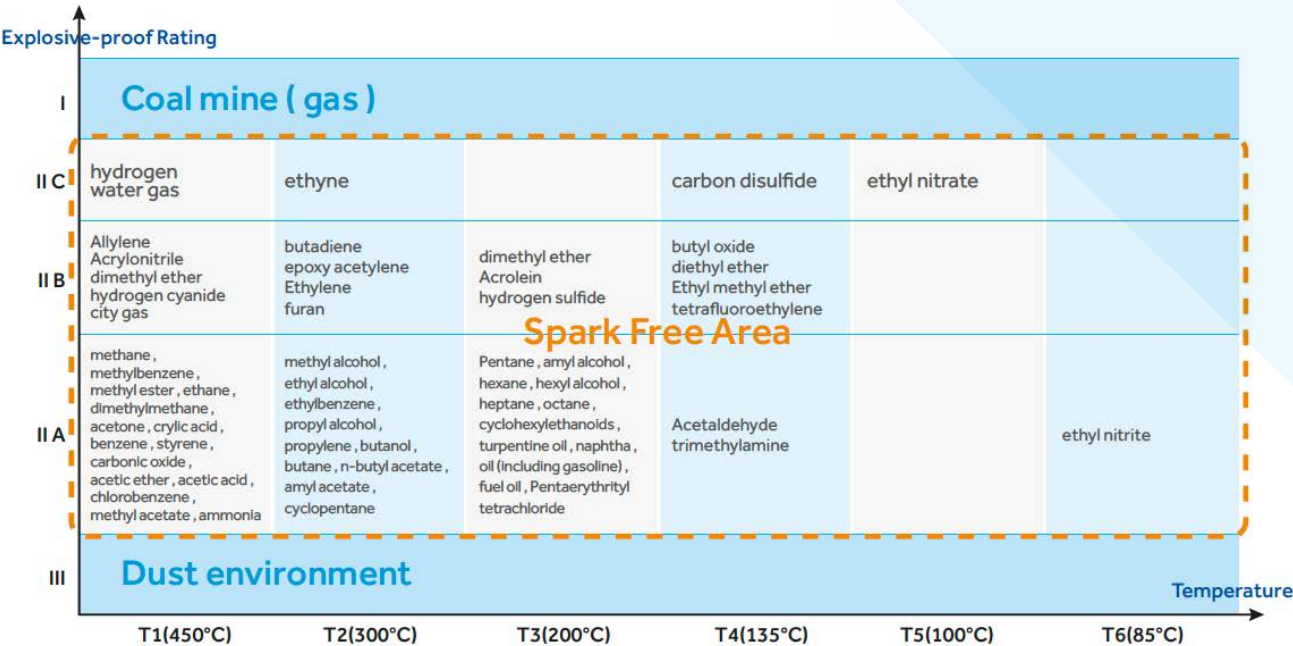


Warning Label

Labels warn users about safe operation.

ATEX Certification

Haier Biomedical sparkfree units 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 ADVANTAGES



Cabinet Structure



Glass Shelves



ATEX Certification Label



Explosion Proof Cabinet/Fan

PRODUCT SPECIFICATIONS

	Model	HLR-118SF		HLR-310SF	DW-25L92SF	DW-30L278SF
Parameters						
Technical Data	Type	Under-Counter Fridge		Upright Fridge	Upright	Upright
	Climate Class	N, ST		N, ST	4	4
	Cooling Type	Forced Air Cooling		Forced Air Cooling	Direct cooling	Direct cooling
	Defrost Mode	Auto		Auto	Manual	Manual
	Refrigerant	R134a		R600a	CFC-Free	CFC-Free
Performance	Noise(dB(A))	38		40	27	40
	Temperature Range(°C)	3~16°C Adjustable		3~16°C Adjustable	-25	-30
	Ambient Temperature(°C)	16~38°C		16~38°C	-10~-25	-10~-30
Control	Controller	Microprocessor		Microprocessor	Microprocessor	Microprocessor
	Display	LED		LED	LED	LCD
Electrical Data	Power Supply(V/HZ)	220/50		220/50	220~240/50	220~240/50
	Power(W)	140		210	160	330
	Electrical Current(A)	1.03		1.26	0.75	2
Dimension	Capacity(L/Cu.Ft)	118/4.2		310/10.9	92/3.3	278/9.8
	Net/Gross Weight(approx)	(kg)	44/49	72/83	46/51	115/135
		(lbs)	97/108	158.7/183	101.4/112.4	253.5/297.6
	Interior Dimension(W*D*H)	(mm)	515×415×630	560×500×1290	435×410×635	520×435×1230
		(in)	20.3×16.3×24.8	22.0×19.7×50.8	17.1×16.1×25.0	20.5×17.1×48.4
	Exterior Dimension(W*D*H)	(mm)	597×635×835	605×598×1840	597×635×835	745×675×1810
		(in)	23.5×25×32.9	23.8×23.6×73.6	23.5×25.0×32.9	29.3×26.6×71.3
	Packing Dimension(W*D*H)	(mm)	608×690×910	660×670×2020	680×690×910	805×725×1970
		(in)	26.8×27.2×35.8	26×26.4×79.5	26.8×27.2×35.8	31.7×28.5×77.6
Functions	Container Load(20'/40'/40'H)	48/102/102		27/57/57	48/102/102	14/28/28
	High/Low Temperature	Y		Y	Y	Y
	Power Failure	Optional		Optional	Y	N
	Sensor Error	Y		Y	N	Y
	Door Ajar	Y		Y	Y	Y
Accessories	Remote Alarm	Optional		Optional	N	N
	Caster	2		4	Y	Y
	Foot	2		2	Y	Y
	Shelves/Baskets	2/1		4/0	3/-	6/-
	Water tray	1		1		
	Padlock Adapter Kit/Quantity	/		1	N	Y/1
	Built-in Key Door Lock/Quantity	2		2	Y/1	Y/1
Others	Certificate	CE ATEX		CE ATEX	ATEX	ATEX
Temperature Setting Mode		Password Protection		Password Protection	Digital (Accuracy ±1)	Digital (Accuracy ±0.1)
Temperature Sensor		1 Resistance Thermometer		1 Resistance Thermometer	Thermistor Temp. Sensor	Thermistor Temp. Sensor
Power Consumption (kWh/24h)		0.7		0.8	0.8	2.3
Material						
Exterior Material		Sprayed Cold Plate		Sprayed Cold Plate	Cold Plate SPCC Powder Coated	Cold Plate SPCC Powder Coated
Interior Material/Colour		PS Plate/White		PS Plate/White	PS Plate Adsorption	PS Plate Adsorption
Insulation		Cyclopentane/Isopentane		Cyclopentane/Isopentane	Ring Isopentane Foaming Agent	Ring Isopentane Foaming Agent
Outside Door/Quantity		Foaming Door/1		Foaming Door/1	One Solid Door	One Solid Door
Outside Door Sealing Structure		Sealing Strip		Sealing Strip	One Seal On The Outside Door Seal Strip	Two Seal On The Outside Door Seal Strip
Shelves Material/Quantity		Tempered Glass/2		Tempered Glass/4	Stripe Coating Aluminum Plate/2	Stripe Coating Aluminum Plate/5
Adjustable Shelves		Y		Y	N	N





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