

PRODUCT SPECIFICATIONS

| Model | HLR-118SF | HLR-310SF | HLR-118FL | HLR-310FL | | |
|------------------------------------|---------------------------------|--------------------------------|---------------------------|--------------------------------|--------------------|----------------|
| Parameters | | | | | | |
| 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 | |
| | Noise(dB(A)) | 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 | |
| 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 | |
| | Capacity(L/Cu.Ft) | 118/4.2 | 310/10.9 | 118/4.2 | 310/10.9 | |
| Dimension | 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 | |
| | Power Failure | Optional | Optional | Optional | Optional | |
| | 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 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 | | |
| Material | | | | | | |
| 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 | | |
| Function Parameters | | | | | | |
| Alarm System | Y | Y | Y | Y | | |
| Boot Delay Protection | Y | Y | Y | Y | | |
| Display Screen Password Protection | Y | Y | Y | Y | | |
| Compressor | | | | | | |
| 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 | | |
| Condenser | | | | | | |
| 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



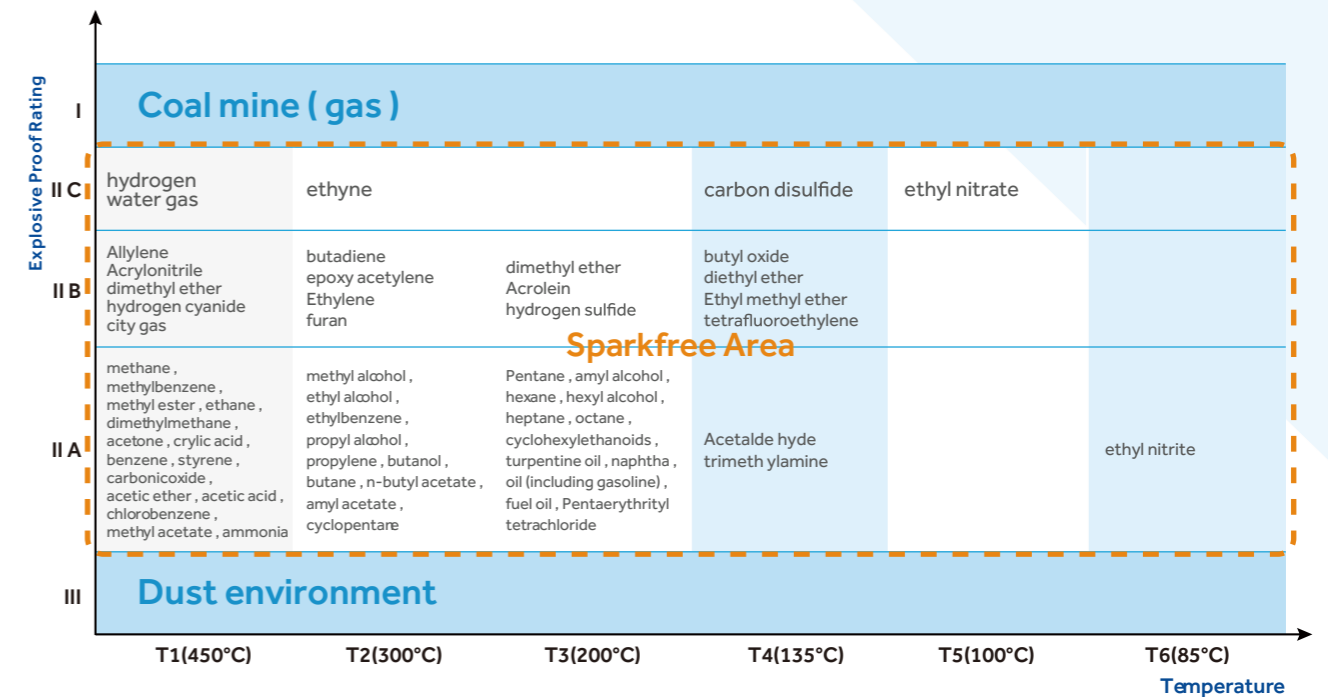
ATEX Certification Label



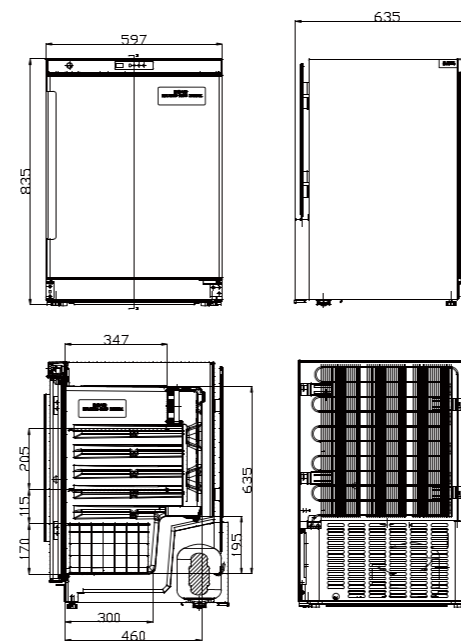
Explosion Proof Cabinet/Fan

ATEX Certification

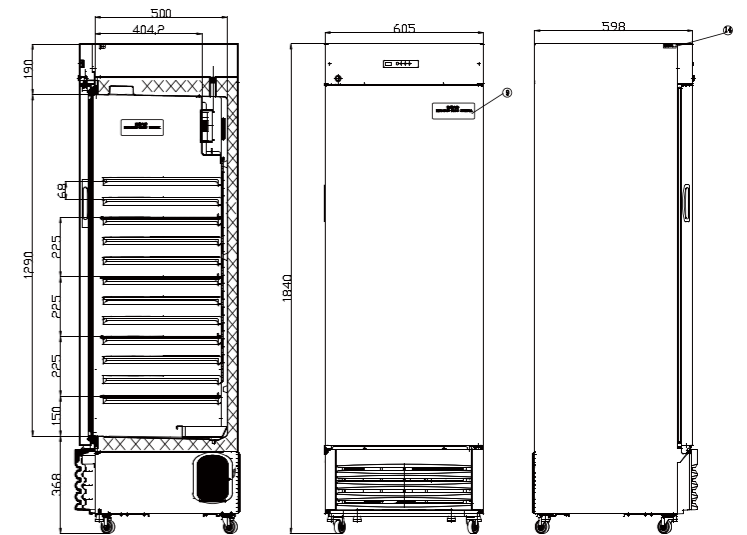
Haier Biomedical sparkfree refrigerators are ATEX certified in the application range II 3G Ex nA II T6. This means that the appliances can be found in the whole 2 zone environment, making our range one of the safest laboratory grade refrigerators available.



PRODUCT DIMENSION DRAWING



HLR- 118SF/FL



HLR- 310SF/FL