

Haier Laboratory Spark Free Refrigerator

Take protective measures to prevent flaming or fire.
Intelligently ensure safety.

All around explosion proof with **ATEX II C-T6** E.U. Certification.



* Provide ultimate protection for your laboratory materials.



HLR-310FL/118FL



ATEX Explosion Proof Certification:

China's first ATEX II C-T6 Explosion Proof certified laboratory refrigerator. The verification acknowledged by authoritative organization makes Haier's product more reliable.

- **All Around Explosion Proof:**
The product equips with overcurrent and overvoltage protection system. It also equips with explosion proof fan for precise safety and protection.
- **Multiple Alarms:**
Include high and low temperature alarms, door open alarm, etc. The refrigerator can be remotely monitored and will alert users rapidly.
- **Precise Temperature Control:**
Internal temperature variation is within 3°C. The professional temperature control ensures stable refrigerator temperature at all time.



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Haier Biomedical
Intelligent Protection of Life Science

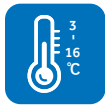
Main Uses ➤ To store chemical or experiment reagents which are easily flammable, explosive, evaporative, corrosive, etc. It is suitable for institutional laboratories, research facilities, etc.

Product Advantages



All around explosion proof with ATEX II C-T6 E.U. Explosion Proof Certification.

Use antistatic liner, gasket and explosion proof fan motor. Equip with overcurrent and overvoltage protection system to provide explosion proof. China's first ATEX II C-T6 Explosion Proof certified laboratory refrigerator ensures profession and acknowledgement.



3-16°C wide temperature range with precise control to prevent freezing.

3-16°C wide range temperature adjustment. Intelligent temperature control system keeps internal temperature variation within 3°C for great temperature uniformity.



One Key Search for Convenient Checking

Historical temperature data can be saved and checked by pressing only one key for convenient laboratory inspection.

Ergonomic Design



HC Cooling Saves Half Energy

The hydro carbon cooling system has twice the cooling efficiency and saves half the energy.



Glass Shelves

Tempered glass shelves can store over 40kg of various sized reagent bottle.



Low Noise

Ultra quiet fan motor with noise cancelling technology makes the entire refrigerator's noise lower than 40 decibels for a quiet and comfortable lab environment.



Dual Lock Design with Multiple Alarm System

The door comes with a mortise lock. A padlock can also be installed. The system has high and low temperature, open door, and sensor error alerting functions for better safety.



Cabinet Structure



Glass Shelf



ATEX Certification Label

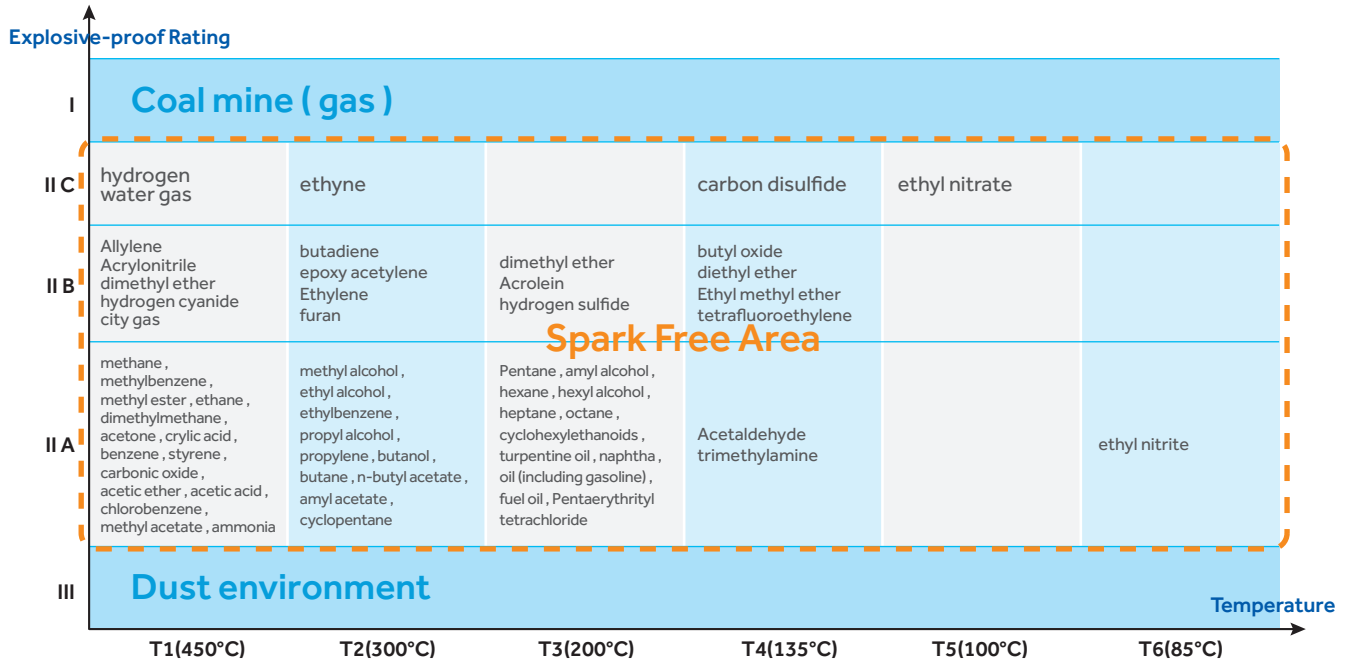


Explosion Proof Cabinet/Fan

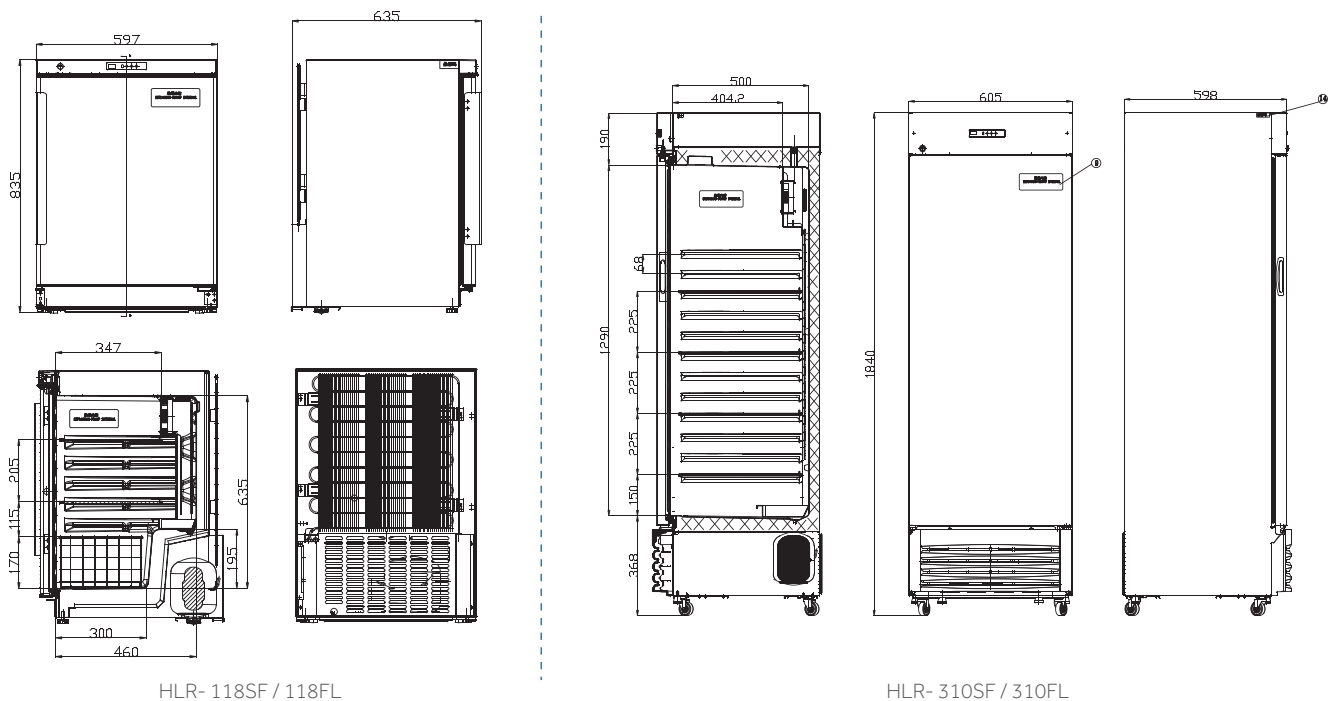


Application range

- Haier spark free refrigerators are ATEX certified in the application range II 3G Ex nA II T6, which means the appliances can be found in the whole II zone environment (including II A and II B, II C). Application can be found in almost all the biochemistry laboratory.



Product Dimension Drawings



Warning: Do not store open containers of volatile substances in this refrigerator.

Available in Aotearoa NZ from: CCAT Scientific 0800 222 812 | info@ccat.co.nz

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 | 220 | 220 | 220 | |
| | Power(W) | 150 | 210 | 150 | 210 | |
| | Electrical Current(A) | 1.03 | 1.26 | 1.03 | 1.26 | |
| Dimension | Capacity(L/Cu.Ft) | 118 | 310 | 118 | 310 | |
| | 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 | |
| | Container Load(20'/40'/40'H) | 48/102/102 | 27/57/57 | 48/102/102 | 27/57/57 | |
| Functions | 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 | 4 | 4 | 4 | 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) | | 0.8 | 1.4 | 0.8 | 1.4 | |
| 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 | |