



Spark Free
Refrigerator/Freezer



Typical Installation

Spark free refrigerators are installed typically in many different laboratories and research facilities to store chemical or experimental reagents that are flammable, explosive, evaporative or corrosive.



Product Advantages

ATEX II C-T6 E.U. Explosion Proof Certification

Explosion proof features include antistatic liner, gasket, explosion proof fan motor, over current and voltage protection. ATEX II C-T6 explosion proof certification for Haier's Laboratory refrigerator ensures safety in your work place.

3~16°C Setting Temperature Range

Smart temperature control system limits the temperature variance within $\pm 3^{\circ}\text{C}$. Adjustable set point for the range of $3^{\circ}\text{C} \sim 16^{\circ}\text{C}$, factory default set temperature is 5°C , controlling the temperature inside the chamber is $2 \sim 8^{\circ}\text{C}$.

One-touch Search for Historic Data

The highest and lowest historic temperature data is saved and can be checked with one key stroke.

High Efficiency HC Cooling Technology

The hydrocarbon refrigeration system operates at a much higher efficiency and reduces the energy consumption by about 50 percent.



Ergonomic Design

High Strength Glass Shelves

Tempered glass shelves hold 40 kg of products per shelf.

Low Noise

Noise cancelling technology reduces the sound level to less than 40 dB(A) for a much-improved environment.



Dual Lock Design with Multiple Alarm Systems

A mortise lock is standard on the door. Standard alarms include high and low temperature, door opening, and sensor errors.



Cabinet Structure



Glass Shelf



ATEX Certification Label



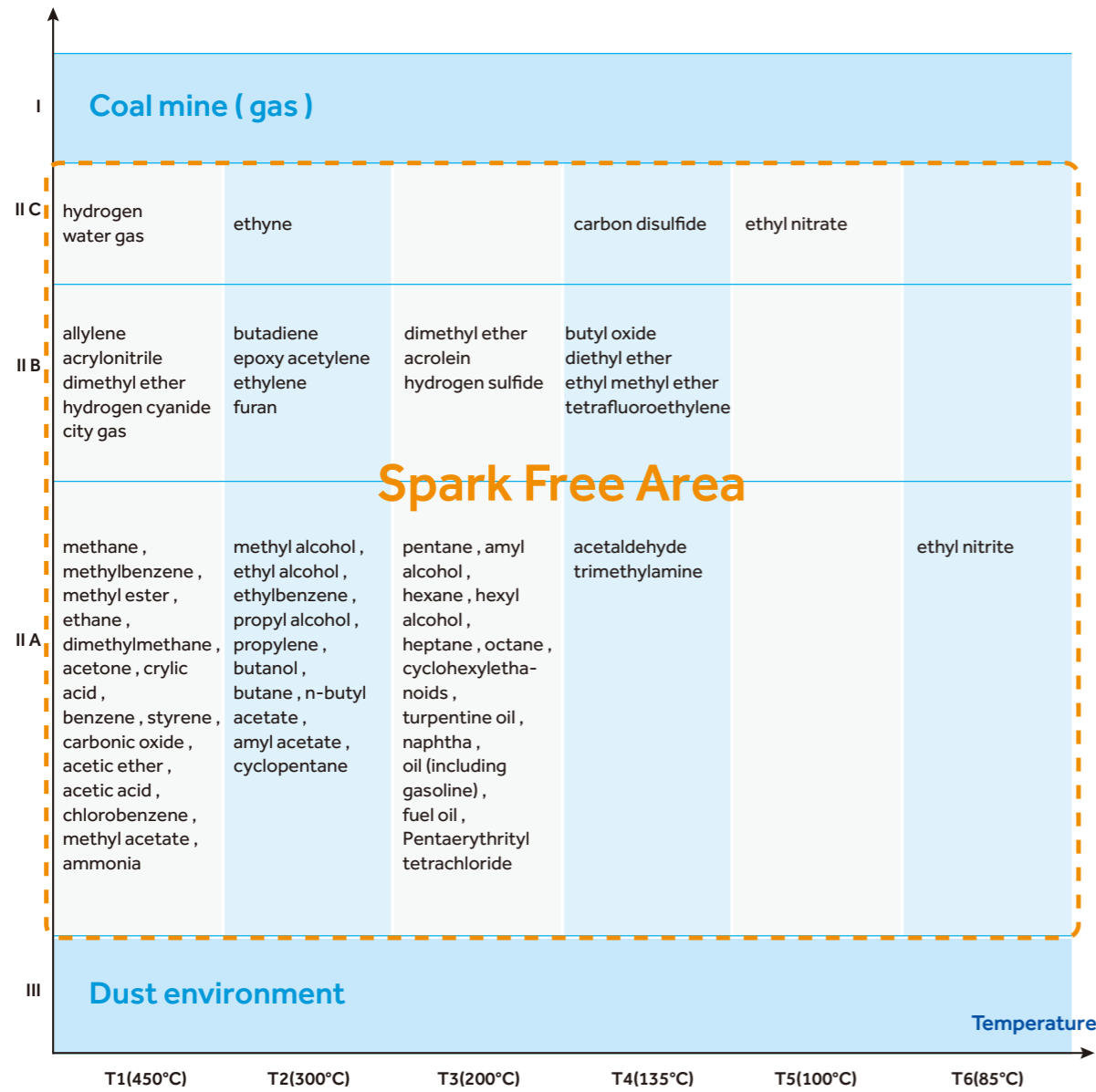
Explosion Proof Cabinet/Fan



Application Range

Haier spark free refrigerators are ATEX certified in the application range II 3G Ex ic nA II T6, which means the appliances can be found in the whole II zone environment (including II A and II B, II C), a typical environment within many biochemistry laboratories.

Explosive-proof Rating



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

Specifications

| Model | HLR-118SF | HLR-310SF | HLR-118FL | HLR-310FL |
|---------------------------------|--------------------|--------------------|--------------------|--------------------|
| Type | Under-Counter | Upright | Under-Counter | Upright |
| Climate Class | N | N | N | N |
| Cooling Type | Forced Air Cooling | Forced Air Cooling | Forced Air Cooling | Forced Air Cooling |
| Defrost Mode | Auto | Auto | Auto | Auto |
| Refrigerant | R600a | R600a | R600a | R600a |
| Sound Level (dB(A)) | 40 | 40 | 40 | 40 |
| Temperature Range (°C) | 3-16°C Adjustable | 3-16°C Adjustable | 3-16°C Adjustable | 3-16°C Adjustable |
| Ambient Temperature (°C) | 16-32 | 16-32 | 16-32 | 16-32 |
| Controller | Microprocessor | Microprocessor | Microprocessor | Microprocessor |
| Display | LED | LED | LED | LED |
| Power Supply (V/Hz) | 220-240/50 | 220-240/50 | 220-240/50 | 220-240/50 |
| Power (W) | 55 | 210 | 55 | 210 |
| Electrical Current (A) | 1.2 | 1.26 | 1.2 | 1.26 |
| Capacity (L/Cu.Ft) | 118/4.2 | 310/10.9 | 118/4.2 | 310/10.9 |
| Net/Gross Weight (approx) | kg | 44/49 | 72/83 | 44/49 |
| | lbs | 97/108 | 158.7/183 | 97/108 |
| Interior Dimensions (W*D*H) | mm | 515×415×630 | 560×500×1290 | 515×415×630 |
| | in | 20.3×16.3×24.8 | 22.0×19.7×50.8 | 20.3×16.3×24.8 |
| Exterior Dimensions (W*D*H) | mm | 597×635×810 | 605×598×1840 | 597×635×810 |
| | in | 23.5×25×31.9 | 23.8×23.6×73.6 | 23.5×25×31.9 |
| Packing Dimensions (W*D*H) | mm | 680×690×890 | 660×670×2020 | 680×690×890 |
| | in | 26.8×27.2×35 | 26×26.4×79.5 | 26.8×27.2×35 |
| 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 |
| 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 | 1 | 1 | 1 | 1 |
| Certification | CE ATEX | CE ATEX | CE ATEX | CE ATEX |

Product appearance and specifications are subject to change without notice

Typical Installation

It can be used for safe storage of potentially flammable items and other temperature sensitive samples at low temperatures. Applications found within life science, medical, electronics and chemical industries.

**DW-30L278SF**

DW-25L92FL

DW-30L278SF/FL

Product Advantages**Explosion Proof Interior**

The SF series is composed of a non-anti-static liner, door lining and drawers; the FL series is composed of an anti-static liner, door lining and drawers. Equipped with an overcurrent and overvoltage protection system with all components earthed to ensure static is discharged safely. Certified to ATEX IIC-T6 EU and can be used in zone 2 environments.

Hydrocarbon Energy-saving

- Utilizing a hydrocarbon compressor and hydrocarbon refrigerant resulting in a more eco-friendly refrigeration system
- Cyclo-isopentane foaming polyurethane insulation and manufactured with materials that comply with the European ROHS directive for environmental protection.
- The hydrocarbon energy-saving and high-efficiency compressor results in an optimized refrigeration system which is more energy efficient than older models.

Excellent Temperature Uniformity

An evaporator shelf design is adopted inside the freezer whereby the evaporation plate serves as a shelf, to ensure faster cooling and a more uniform temperature. The temperature uniformity at points throughout the unit is $\pm 4^{\circ}\text{C}$.

Low Noise

Cabinet structure and refrigeration system noise reduction design lowers noise level to less than 40dB(A) and eliminating any harsh high-frequency noises.

Laboratory Deep Freezer with explosion-proof interior
 Interior Temp. Range : -10 ~ -25 °C (DW-25L92FL/SF)
 -10 ~ -30 °C (DW-30L278FL/SF)
 Internal IIC-T6 Gc
 Certification No.: CML 18ATEX4058X
 Serial No.: In the Barcode
 Haier Medical and Laboratory Products Co., Ltd.

Anti-static operating instruction
 1. Clean plastic parts with a damp cloth only.
 2. Do not use a dry cloth to clean plastic parts.
 3. Danger of sparks due to electrostatic discharge.
 4. Warning - potential electrostatic charging hazard - see instructions.

Key Features**Microprocessor-controlled system**

- Microprocessor electronic thermostat, LCD temperature display to an accuracy of 0.1°C;
- Adjustable set point of between -10~-30°C;
- Alarm functions include a high and low temperature alarm, sensor failure alarm and power failure alarm;
- Audible and visual alarm;
- Display/Alarm is battery backed up for 24 hours in the event of a power failure.

**Good thermal insulation**

The super-thick insulation layer and removable door gasket design improves the thermal insulation and energy-saving effects to enhance the reliability of the freezer.

**Safety lock**

Dual-lock design of lock catch and key lock. An external padlock can be added for additional security.

**Warning sticker**

The SF series adopts the non-anti-static liner and front-operated yellow warning sticker to warn users about safe operation requirements and ensure safe use.

**Drawers**

The SF series of freezer are provided with six plastic drawers and the FL series are provided with six drawers made of anti-static materials. Each drawer has a warning sticker slot to meet different storage and identification requirements.

**Caster**

Caster and levelling feet design, easy to move and fix in place.

Specifications

| Model | DW-25L92SF | DW-30L278SF | DW-30L278FL | | |
|-------------------------------|----------------------------|----------------|----------------|---------------------------|----------------|
| Technical Data | Cabinet Type | Upright | Upright | Upright | |
| | Climate Class | SN N | SN N | SN N | |
| | Cooling Type | Direct Cooling | Direct Cooling | Direct Cooling | |
| | Defrost Mode | Manual | Manual | Manual | |
| | Refrigerant | HC | HC | HC | |
| | Sound Level(dB(A)) | 27 | 40 | 40 | |
| Performance | Cooling Performance(°C) | -25 | -30 | -30 | |
| | Temperature Range (°C) | -10~-25 | -10~-30 | -10~-30 | |
| Control | Controller | Microprocessor | Microprocessor | Microprocessor | |
| | Display | LED | LCD | LCD | |
| Electrical Data | Power Supply(V/Hz) | 220-240/50 | 220-240/50 | 220-240/50 | |
| | Power(W) | 160 | 330 | 330 | |
| | Electrical Current(A) | 0.75 | 2.0 | 2.0 | |
| Dimensions | Capacity(L/Cu.Ft) | 92/3.3 | 278/9.8 | 278/9.8 | |
| | Net/Gross Weight(approx) | kg | 46/51 | 115/135 | 115/135 |
| | | lbs | 101/113 | 254/298 | 254/298 |
| | Interior Dimensions(W*D*H) | mm | 435*410*635 | 520*435*1230 | 520*435*1230 |
| | | in | 17.1*16.1*25 | 20.5*17.1*48.4 | 20.5*17.1*48.4 |
| | Exterior Dimensions(W*D*H) | mm | 597*635*835 | 745*675*1810 | 745*675*1810 |
| | | in | 23.5*25*32.9 | 29.3*26.6*71.3 | 29.3*26.6*71.3 |
| | Packing Dimensions(W*D*H) | mm | 680*690*910 | 805*725*1970 | 805*725*1970 |
| | | in | 26.8*27.2*35.8 | 31.7*28.5*77.6 | 31.7*28.5*77.6 |
| Container Load (20'/40'/40'H) | | 48/102/102 | 23/46/46 | 23/46/46 | |
| Alarms | High/Low Temperature | Y | Y | Y | |
| | Remote Alarm | Y | / | / | |
| | Power Failure | / | Y | Y | |
| | Sensor Error | Y | Y | Y | |
| | Door Ajar | Y | / | / | |
| Accessories | Caster | Y | Y | Y | |
| | Foot | Y | Y | Y | |
| | Drawers/Inner Doors | 3/- | 6/- | 6/- | |
| Others | Certification | CE ATEX | CE ATEX | CE ATEX | |
| | Interior Material/Colour | PS Plate/White | PS Plate/Grey | Antistatic PS Plate/Black | |

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