Model		DW-25L92SF	DW-25L92FL
Technical Data	Cabinet Type	Upright	Upright
	Climate Class	4	4
	Cooling Type	Direct cooling	Direct cooling
	Defrost Mode	Manual	Manual
	Refrigerant	HC	HC
	Sound Level(dB(A))	27	27
Performance	Cooling Performance(°C)	-25	-25
	Temperature Range(°C)	-10~-25	-10~-25
Control	Controller	Microprocessor	Microprocessor
	Display	LED	LED
Electrical Data	Power Supply(V/Hz)	220~240/50	220~240/50
	Power(W)	160	160
	Electrical Current(A)	0.75	0.75
Dimensions	Capacity(L/Cu.Ft)		92/3.3	92/3.3
	Net/Gross Weight (approx)	kg	46/51	46/51
		lbs	101/113	101/113
	Interior Dimension (W*D*H)	mm	435*410*630	435*410*630
		in	17.1*16.1*24.8	17.1*16.1*24.8
	Exterior Dimension (W*D*H)	mm	597*625*835	597*625*835
		in	23.5*24.6*32.9	23.5*24.6*32.9
	Packing Dimension (W*D*H)	mm	680*690*910	680*690*910
		in	26.8*27.2*35.8	26.8*27.2*35.8
	Container Load(20'/40'/40'H)		48/102/102	48/102/102
Functions	High/Low Temperature	Y	Y
	Remote Alarm	Y	Y
	Power Failure	N	N
	Sensor Error	Y	Y
	Low Battery	N	N
	High Ambient Temperature	N	N
	Door Ajar	Y	Y
Accessories	Caster	Y	Y
	Foot	Y	Y
	Porthole	N	N
	Drawers/Inner Doors	3/-	/
	USB Interface	N	N
	Temperature Recorder	N	N
Others	Certification	CE ATEX	CE ATEX
	Interior Material/Colour	PS Plate/white	Antistatic PS Plate/black

Haier Biomedical
Intelligent Protection of Life Science

Spark Free Freezer

DW-25L92SF/FL

Interior Designed for Explosion Proof, HC Refrigerant System for Energy Savings, and Smart System Control

Explosion Proof Interior
SF series freezers feature standard interior design, door frame, and drawer. FL series freezers feature antistatic interior design, door frame, and stainless steel shelves. All metal parts are grounded reliably and interior design is explosion proof. Certificates include China anti-explosion proof and EU explosion proof ATEX II C-T6

HC System to save energy
- Hydrocarbon compressor, and hydrocarbon refrigerants complete a true green, environmentally safe refrigeration system
- Cyclo-isopentane polyurethane foam insulation meets EU ROHS directive for a green and safe environment
- Optimized hydrocarbon refrigeration system design ensures a more energy efficient operation

Excellent temperature uniformity
Cold shelve evaporator design allows a faster cool down, and more uniform temperature distribution, typically ±3°C

Low noise
Unique structural design and system emits only 27 dba in sound level, eliminating unhealthy high pitch noise

Safer by Design

Micro-processor control system
- Micro processor control with LED temperature display and adjustable range of -10℃ to -25℃ ; 1℃ increment;
- Multiple alarms including high temperature, low temperature, sensor alarm and door ajar alarm;
- Alarms are in buzzer and flashing light. Remote alarm contacts are available.

Safety lock
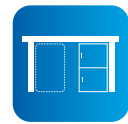Unit door is lockable for safety.

Warning labels
Warning label on the unit front for SF series with non-antistatic interior design.

Drawers and shelves
Three plastic drawers are standard for SF series units.
Three stainless steel shelves are standard for FL series units.
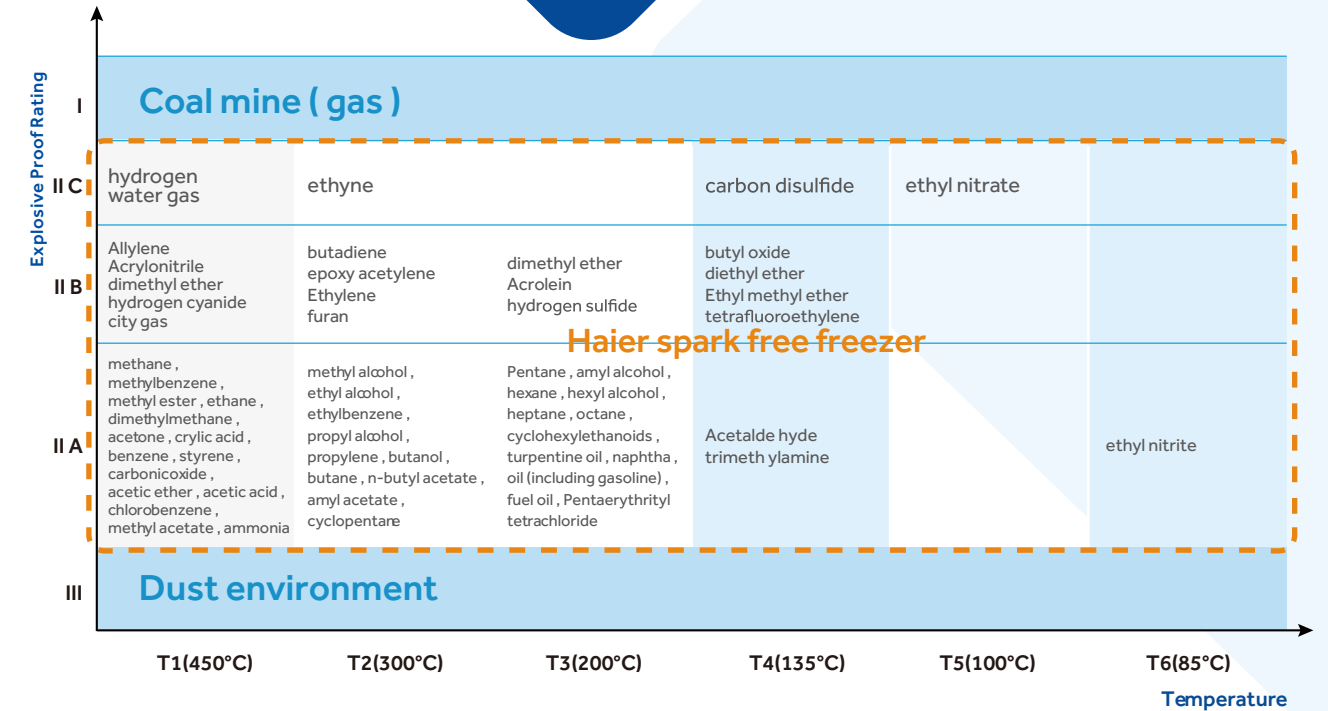
Under-counter design
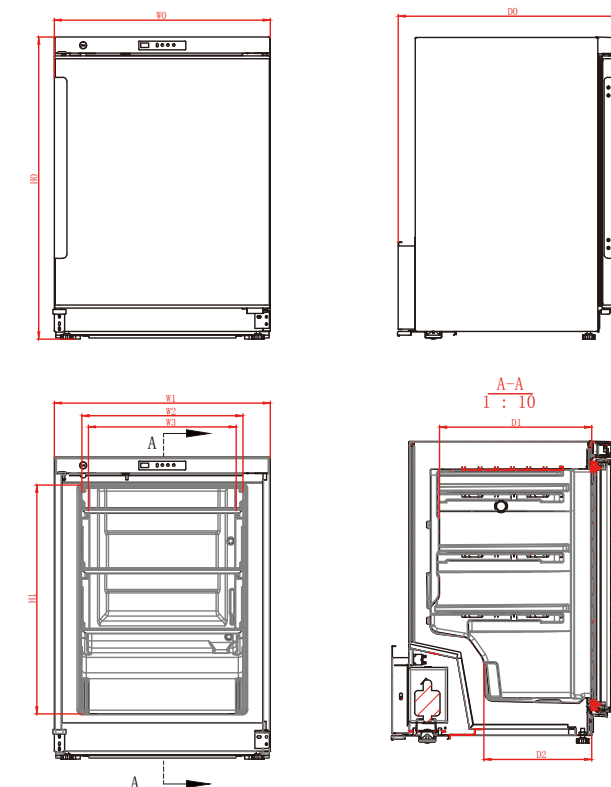Unit dimensions are designed to fit under a counter.

Caster
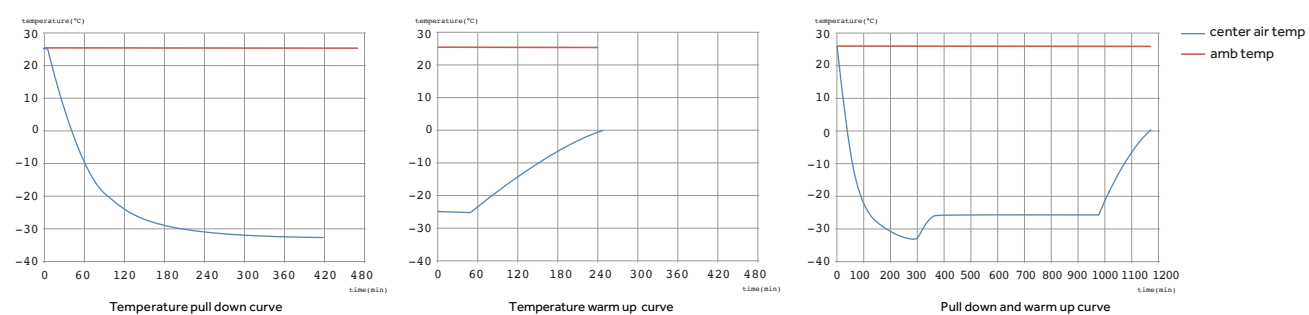Standard caster and leveling leg design for ease of maneuvering and securing the unit on ground.

Laboratory Deep Freezer with explosion-proof interior
Interior Temp. Range : -10 ~ -25℃（DW-25L92FL/SF）
-10 ~ -30℃（DW-30L278FL/SF）
Internal Ⅱ3/- G Ex ic ⅡC T6 Gc
Certification No.:CML 18ATEX405BX
Serial No. in the Barcode
Haier Medical and Laboratory Products Co.,Ltd.

Anti-static operating instruction
WARNING
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.Waning - potential electrostatic charging hazard - see instructions.

TYPICAL PERFORMANCE CHARACTERISTICS IN 25℃ AMBIENT

Temperature pull down curve

Temperature warm up curve

Pull down and warm up curve

— center air temp
— amb temp

Application range

Explosive Proof Rating

I	**Coal mine (gas)**				
II C	hydrogen water gas	ethyne		carbon disulfide	ethyl nitrate
II B	Allylene Acrylonitrile dimethyl ether hydrogen cyanide city gas	butadiene epoxy acetylene Ethylene furan	dimethyl ether Acrolein hydrogen sulfide	butyl oxide diethyl ether Ethyl methyl ether tetrafluoroethylene	
II A	methane , methylbenzene , methyl ester , ethane , dimethylmethane , acetone , crylic acid , benzene , styrene , carbonicoxide , acetic ether , acetic acid , chlorobenzene , methyl acetate , ammonia	methyl alcohol , ethyl alcohol , ethylbenzene , propyl alcohol , propylene , butanol , butane , n-butyl acetate , amyl acetate , cyclopentare	Pentane , amyl alcohol , hexane , hexyl alcohol , heptane , octane , cyclohexylethanoids , turpentine oil , naphtha , oil (including gasoline) , fuel oil , Pentaerythrityl tetrachloride	Acetalde hyde trimeth ylamine	ethyl nitrite
III	**Dust environment**				

Haier spark free freezer

T1(450℃)	T2(300℃)	T3(200℃)	T4(135℃)	T5(100℃)	T6(85℃)

Temperature

PRODUCT DIMENSION DRAWING

A-A
1 : 10

RAMARK
W0 --- TOTAL WIDTH
W1 --- FREEZER WIDTH
W2 --- INNER CABINET WIDTH
W3 --- SHELF WIDTH
D0 --- TOTAL DEPTH
D1 --- INNER CABINET DEPTH
D2 --- SHELF DEPTH
H0 --- TOTAL HEIGHT
H1 --- INNER CABINET HEIGHT

MODEL	CODE	W0	W1	W2	W3	H0	H1	D0	D1	D2
DW-25L92SF/FL		642mm	597mm	435mm	410mm	835mm	630mm	625mm	410mm	294mm

Model		DW-30L278SF	DW-30L278FL
Technical Data	Cabinet Type	Upright	Upright
	Climate Class	4	4
	Cooling Type	Direct cooling	Direct cooling
	Defrost Mode	Manual	Manual
	Refrigerant	HC	HC
	Sound Level(dB(A))	40	40
Performance	Cooling Performance(°C)	-30	-30
	Temperature Range(°C)	-10~-30	-10~-30
Control	Controller	Microprocessor	Microprocessor
	Display	LCD	LCD
Electrical Data	Power Supply(V/Hz)	220~240/50	220~240/50
	Power(W)	330	330
	Electrical Current(A)	2.0	2.0
Dimensions	Capacity(L/Cu.Ft)	278/9.8	278/9.8
	Net/Gross Weight (approx) kg	115/135	115/135
	Net/Gross Weight (approx) lbs	254/298	254/298
	Interior Dimension (W*D*H) mm	515*440*1220	515*440*1220
	Interior Dimension (W*D*H) in	20.3*17.3*48	20.3*17.3*48
	Exterior Dimension (W*D*H) mm	742*718*1810	742*718*1810
	Exterior Dimension (W*D*H) in	29.2*28.3*71.3	29.2*28.3*71.3
	Packing Dimension (W*D*H) mm	805*725*1970	805*725*1970
	Packing Dimension (W*D*H) in	31.7*28.5*77.6	31.7*28.5*77.6
	Container Load(20'/40'/40'H)	23/46/46	23/46/46
Functions	High/Low Temperature	Y	Y
	Remote Alarm	N	N
	Power Failure	Y	Y
	Sensor Error	Y	Y
	Low Battery	N	N
	High Ambient Temperature	N	N
	Door Ajar	N	N
Accessories	Caster	Y	Y
	Foot	Y	Y
	Porthole	N	N
	Drawers/Inner Doors	6/-	6/-
	USB Interface	N	N
	Temperature Recorder	N	N
Others	Certification	CE ATEX	CE ATEX
	Interior Material/Colour	PS Plate/white	Antistatic PS Plate/black

Haier Biomedical
Intelligent Protection of Life Science

Spark Free Freezer

DW-30L278SF/FL

Interior Designed for Explosion Proof,HC Refrigerant System for Energy Savings,and Smart System Control

Explosion Proof Interior
SF series freezers feature standard interior design, door frame, and drawer. FL series freezers feature antistatic interior design, door frame, and drawer. All metal parts are grounded reliably and interior design is explosion proof. Certificates include China anti-explosion proof and EU explosion proof ATEX II C-T6

HC System to save energy
- Imported hydrocarbon compressor, and hydrocarbon refrigerants complete a true green, environmentally safe refrigeration system
- Cyclo-isopentane polyurethane foam insulation meets EU ROHS directive for a green and safe environment
- Optimized hydrocarbon refrigeration system design ensures a more energy efficient operation

Excellent temperature uniformity
Cold shelve evaporator design allows a faster cool down, and more uniform temperature distribution, typically ±4°C

Low noise
Unique structural design and system emits only 40 dba in sound level, eliminating unhealthy high pitch noise

Safer by Design

Micro-processor control system
- Micro processor control with LCD temperature display and adjustable range of -10°C to -30°C ; 0.1°C increment;
- Multiple alarms including high temperature, low temperature, sensor alarm and power failure alarm;
- Alarms are in buzzer and flashing light. Continuous alarm for more than 24 hours after power failure
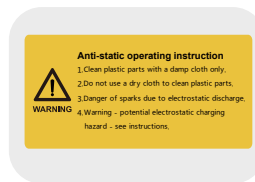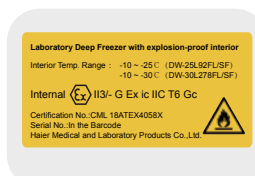
Safety lock
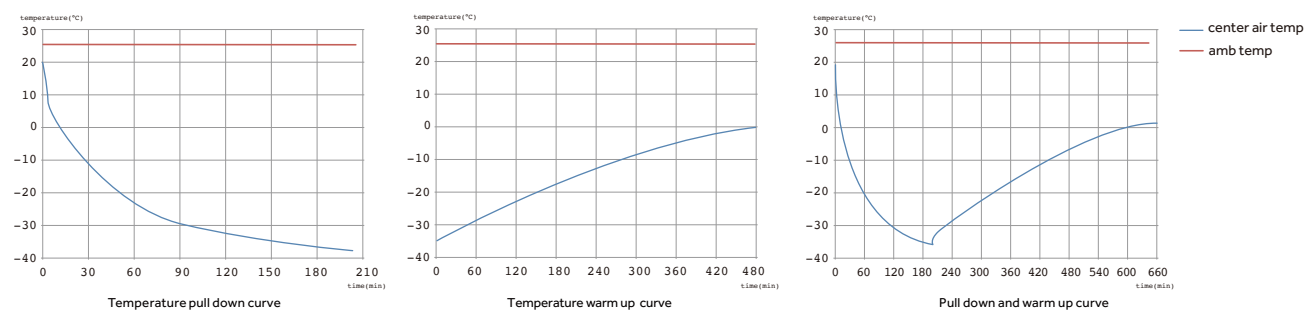Dual-lock design of lock catch + built-in lock. A padlock can be added to the lock catch to ensure double safety
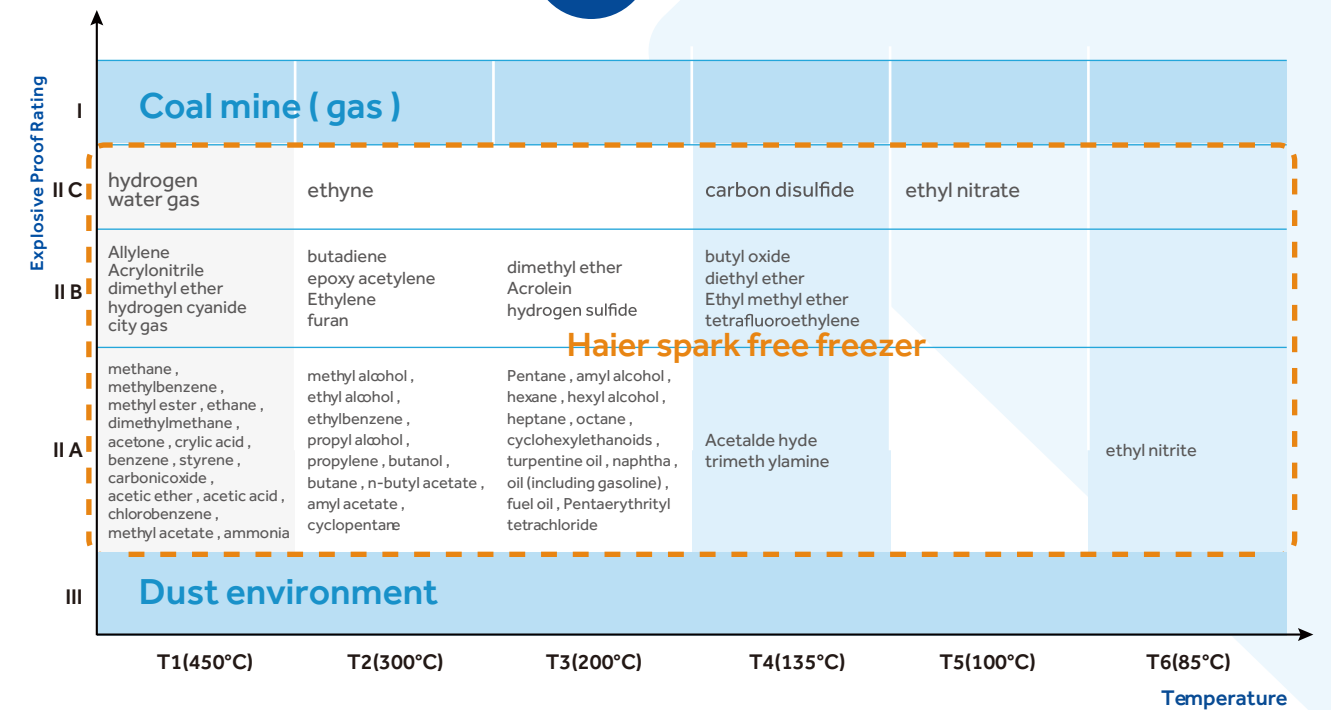
Warning labels
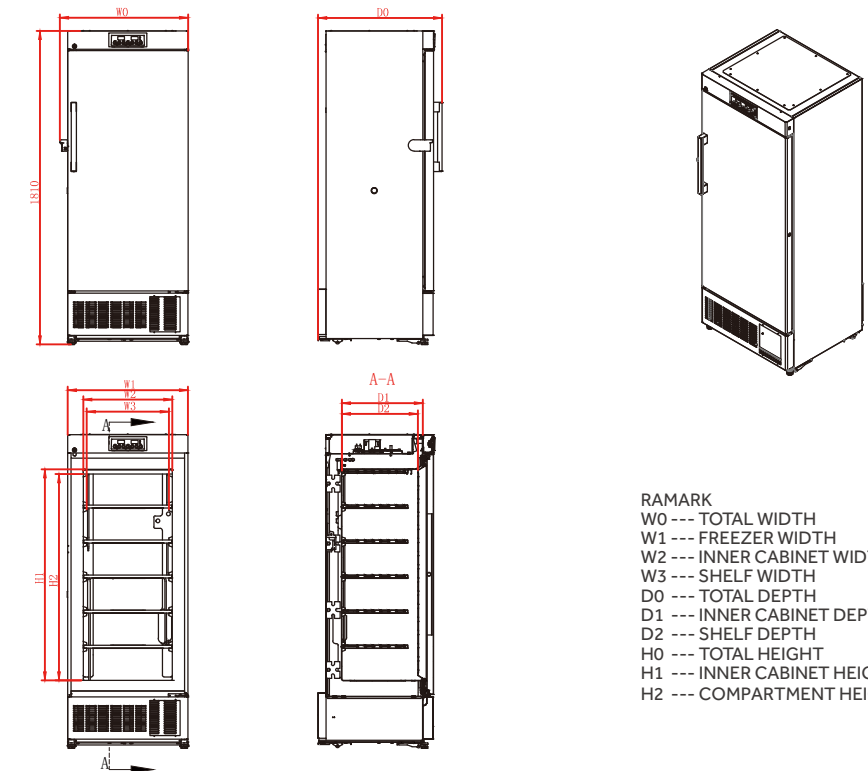Warning label on the unit front for SF series with non-antistatic interior design

Good thermal insulation
The super-thick insulation layer and removable door gasket design are adopted to improve the thermal insulation and energy-saving effects and enhance the reliability of the refrigerator

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

Caster
Standard caster and leveling leg design for ease of maneuvering and securing the unit on ground

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Laboratory Deep Freezer with explosion-proof interior
Interior Temp. Range : -10 ~ -25℃ (DW-25L92FL/SF)
-10 ~ -30℃ (DW-30L278FL/SF)
Internal (Ex) II3/- G Ex ic 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.
WARNING 4.Warning - potential electrostatic charging hazard - see instructions.

TYPICAL PERFORMANCE CHARACTERISTICS IN 25°C AMBIENT

Temperature pull down curve

Temperature warm up curve

Pull down and warm up curve

—— center air temp
—— amb temp

Application range

I	**Coal mine (gas)**				
II C	hydrogen water gas	ethyne		carbon disulfide	ethyl nitrate
II B	Allylene Acrylonitrile dimethyl ether hydrogen cyanide city gas	butadiene epoxy acetylene Ethylene furan	dimethyl ether Acrolein hydrogen sulfide	butyl oxide diethyl ether Ethyl methyl ether tetrafluoroethylene	
II A	methane , methylbenzene , methyl ester , ethane , dimethylmethane , acetone , crylic acid , benzene , styrene , carbonicoxide , acetic ether , acetic acid , chlorobenzene , methyl acetate , ammonia	methyl alcohol , ethyl alcohol , ethylbenzene , propyl alcohol , propylene , butanol , butane , n-butyl acetate , amyl acetate , cyclopentare	Pentane , amyl alcohol , hexane , hexyl alcohol , heptane , octane , cyclohexylethanoids , turpentine oil , naphtha , oil (including gasoline) , fuel oil , Pentaerythrityl tetrachloride	Acetalde hyde trimeth ylamine	ethyl nitrite
III	**Dust environment**				

Haier spark free freezer

Explosive Proof Rating

| T1(450℃) | T2(300℃) | T3(200℃) | T4(135℃) | T5(100℃) | T6(85℃) |

Temperature

PRODUCT DIMENSION DRAWING

RAMARK
W0 --- TOTAL WIDTH
W1 --- FREEZER WIDTH
W2 --- INNER CABINET WIDTH
W3 --- SHELF WIDTH
D0 --- TOTAL DEPTH
D1 --- INNER CABINET DEPTH
D2 --- SHELF DEPTH
H0 --- TOTAL HEIGHT
H1 --- INNER CABINET HEIGHT
H2 --- COMPARTMENT HEIGHT

MODEL	CODE	W0	W1	W2	W3	H0	H1	H2	D0	D1	D2
DW-30L278SF/FL		742mm	695mm	515mm	475mm	1810mm	1220mm	1192mm	718mm	468mm	440mm