SHHAG®



SHANDONG HUAJING GLASS CO.,LTD.

WWW.S

CONTACT US

- 86-0536-8982358
- 86-0536-3820581
- info@huajingglass.cn
- www.shhag.com
- Nanbeiyuan Rd, Naoshan Economic Development Zone, Qingzhou, Shandong, China





HIGH PERFORMANCE PRODUCT INNOVATIVE DESIGN TRUSTED PARTNER





SHHAG manufactures cooler and freezer glass doors, provides innovative products, services and solutions for the commercial refrigeration industry.



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COMPANY OVERVIEW

SHHAG Offers High-Quality And Reliable Cooler/Freezer Glass Doors And Accessories With Our Innovative Design And Advanced Technology. Our Expertise Enables Us To Apply Our Products To A Wide Variety Of Customers, Including Refrigeration Equipment Suppliers, Supermarkets, Wholesale Retailers, Convenience Stores And Cold Storage Warehouses.

We Can Take Oem And Customized Orders To Meet The Specific Needs Of Our Customers Around The World. All The Products Are Manufactured In Compliance With The Iso 9001:2008 Criteria And Also Certified By Ce, Etl, Doe, Rohs, Sgs, Saso And Ccc.

SHHAG Has Built A Reputation For Manufacturing Quality Products And Received The Satisfactions From Top Appliance Companies, Such As Haier, Carrier, Lotte, Epta, Panasonic, Frigrite, Sanyo, Etc. Our Products Have Been Exported To Many Countries Across Europe, North America, South America, Middle East And Southeast Asia.



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♦ CLASSIC GLASS DOOR

CD-01

Features:

Double tempered glass with argon gas (cooler)

Triple tempered glass with argon gas (freezer)

Heated glass and frame technology

Aluminum alloy profile

Full length handle

Exclusive design hinge system

Hold Open and Doorstop

Magnetic door gasket seal

T-8 LED lighting

Easy Installation

Options:

Reversible door swing

Cylinder lock Add-On

Customized logo

Temperature sensor for engrgy saving

Hydraulic damping closing device

Color:Black, Silver

Application:

Walk-in cooler/Freezer

Reach-in cases

Sizes:

Width:	24"	26"	30"			
Height:	75"	79"	80"			
Custom sizes available						















APPLICATION













CD-02

Features:

Double tempered glass with argon gas (cooler)

Triple tempered glass with argon gas (freezer)

Heated glass and frame technology

Aluminum alloy profile

Slim line handle

Exclusive design hinge system

Hold Open and Doorstop

Magnetic door gasket seal

T-8 LED lighting

Easy Installation

Options:

Reversible door swing

Cylinder lock Add-On

Customized logo

Temperature sensor for engrgy saving

Hydraulic damping closing device

Color:Black, Silver

Application:

Walk-in cooler/Freezer

Reach-in cases

Sizes:

Width:	24"	26"	30"
Height:	75"	79"	80"















APPLICATION













CD-03

Features:

Double tempered glass with argon gas (cooler)

Triple tempered glass with argon gas (freezer)

Heated glass and frame technology

Aluminum alloy profile

Slim line handle

Exclusive design hinge system

Hold Open and Doorstop

Magnetic door gasket seal

T-8 LED lighting

Easy Installation

Options:

Reversible door swing

Cylinder lock Add-On

Customized logo

Temperature sensor for engrgy saving

Hydraulic damping closing device

Color:Black, Silver

Application:

Walk-in cooler/Freezer

Reach-in cases

Sizes:

Width:	24"	26"	30"
Height:	75"	79"	80"
Custom s	izes avai	lable	





















CD-04

Features:

Double tempered glass with argon gas (cooler)
Triple tempered glass with argon gas (freezer)
Heated glass and frame technology

Aluminum alloy profile

Slim handle

Exclusive design hinge system

Hold Open and Door stop

Magnetic door gasket seal

T–8 LED lighting Easy Installation

Options:

Reversible door swing

Cylinder lock Add-On

Customized logo

Temperature sensor for engrgy saving

Hydraulic damping closing device

Color:Black, Silver

Application:

Walk-in cooler/Freezer

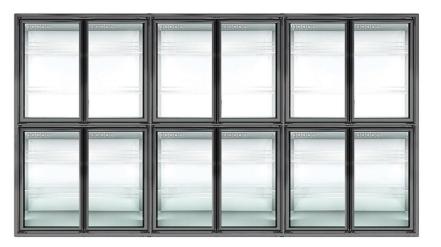
Reach-in cases

Sizes:

Custom sizes available











ENERGY SAVING GLASS DOOR AND FRAME

◆ EM COMPOSITE MATERIALS

EM-01

Features:

Double tempered glass with argon gas (cooler)

Triple tempered glass with argon gas (freezer)

Heated glass and frame technology

Composite material profile

Full length handle

Exclusive design hinge system

Hold Open and Doorstop

Magnetic door gasket seal

Easy Installation

Options:

Reversible door swing

Cylinder lock Add-On

Customized logo

Temperature sensor for engrgy saving

Hydraulic damping closing device

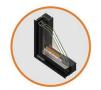
Color:Black

Application:

Walk-in cooler/Freezer

Reach-in cases











EXCELLENT PROPERTIES



GOOD THERMAL INSULATION PERFORMANCE



LOW PRODUCTION ENERGY CONSUMPTION



HIGH TEMPERATURE RESISTANCE



ACID AND ALKALI RESISTANT

GOOD FIRE

RESISTANCE



RESISTANT TO SALT SPRAY





HIGH STRENGTH



SAFE AND NON-VOLATILE



INSULATION

- Compared with the traditional aluminum alloy /PVC material, EM composite material has the characteristics of higher strength, high modulus, high impact, high flame retardant, high heat insulation and low expansion coefficient.
- EM composite material has excellent weather resistance, acid and alkali resistance, salt spray resistance, and is widely used in harsh environmental fields.
- EM composite material production low energy consumption, environmental protection, environmental friendly, safe and harmless, no TVOC volatilization.

◆ ACRYLIC FRAMELESS GLASS DOOR

FD-01

Features:

Non-heated Door

Silkscreen border

Acrylic spacer for more visibility

Acrylic slim handle

Self closing hinge system

Sealing strips

Magnetic Frame Gasket

Options:

Custom Color Available

Color:Black/silver

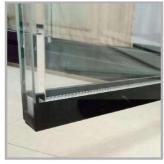
Application:

Walk-in cooler

















FD-02

Features:

Double tempered glass with argon gas (cooler)

Tripie tempered giass with argon gas (freezer)

Heated glass and frame technology

Silkscreen border

Exclusive design hinge system

Hold Open and Doorstop

Magnetic door gasket seal

T-8 LED lighting

Options:

Frame color:Black, Silver

Handle:slim handle or full length handle
 Silkscreen border color:Black or Gray

Reversible door swing

Cylinder lock Add-On

Customized logo

Temperature sensor for engrgy saving Hydraulic damping closing device

Application:

Walk-in cooler/Freezer

Reach-in cases

Sizes:

Width:	24"	26"	30"
Height:	75"	79"	80"









FD-03

Features:

Double tempered glass with argon gas (cooler)

Tripie tempered giass with argon gas (freezer)

Heated glass and frame technology

Silkscreen border

Exclusive design hinge system

Hold Open and Doorstop

Magnetic door gasket seal

T-8 LED lighting

Options:

Frame color:Black, Silver

Handle:slim handle

Silkscreen border color:Black or Gray

Reversible door swing

Temp sensor for energy saving

Custom logo

Custom sizes available















FD-04

◆ SELF-CLOSING GLASS DOOR

Features:

Double tempered glass with argon gas (cooler)

Heated frame technology

Silkscreen border

Magnetic door gasket seal

Exclusive design hinge system

T-8 LED lighting

Sealing strips

Options:

Frame color:Black

Handle:slim handle

Custom logo

Custom sizes available













FD-05

◆ LAMINATED GLASS DOOR

Features:

Double tempered glass with argon gas (cooler) Heated glass and frame technology

Self closing hinge system

T-8 LED lighting

Options:

Color:Black, Silver

Handle:slim handle

Custom logo

Custom sizes available

Application:

Walk-in cooler

Reach-in cases













SLIDING GLASS DOOR

SL-D01

Features:

Doubie tempered giass with argon gas Non-heated aluminum frame door Heat Reflective Low–E glass Slider handle Limit block

Options:

Heated Door Rail
Self Closing Door
Buffer damping hinge
Custom sizes available

Application:

Display cooler,Walk-in cooler Convenience store beverage cabin









SL-D02

Features:

Doubie tempered giass with argon gas Non–heated aluminum frame door Heat Reflective Low–E glass Full length handle Limit block

Options:

Heated Door Rail
Self Closing Door
Buffer damping hinge
Custom sizes available

Application:

Display cooler,Walk-in cooler Convenience store beverage cabin





OD-B01

Features:

Double tempered glass with argon gas (cooler)
Triple tempered glass with argon gas (freezer)
Heated glass technology
Aluminum alloy door frame
Exclusive hinge system design
Top and bottom brackets

Magnetic door gasket seal

Easy Installation

Options:

Frame color:Black, Silver
Handle:slim handle or full length handle
Cylinder lock Add—on
Custom sizes and logo available

Application:

Beverage cooler
Beer and liquor cabinets

























ACPD-01

◆ ALUMINUM COATED PLASTIC GLASS DOOR

Features:

Triple tempered glass with LED strip inside

Black color silkscreen border

Aluminum alloy door frame

Self closing hinge system

Hold Open and Doorstop

Magnetic door gasket seal

Full length handle

HDMI/VGA/USB/SD Card

Options:

Cooler or Freezer

Frame color:Black, Silver

Touch function

WIFI Connection

PC Version Media box

Custom sizes available

Application:

Convenience store

Vending machine

Width:	550mm	600mm	650mm	700mm
Height:	1500mm	1600mm	1700mm	
Customi	zed sizes	available		





RD-01

◆ ASSEMBLED CURVED FRAMELESS DOOR

Features:

Rangle: can be customizable

Can with Led light, Light color can be customized

Double Tempered Glass With Argon Gas(Cooler)

Heated Glass Technology

Exclusive Design Hinge System

Magnetic Door Gasket Seal

Easy Connect

Optional features:

Frame Color: Black, Silver

Handle: Side door Handle or External door Handle

Custom Sizes and Logo Available

Application:

Beverage Cooler

Beer and Liquor Cabinet

Innovative design:

■ Embedded rebound buffer

Three-level buffer design

90° open limit and automatic return







TOP HINGE





POT

BOTTOM HINGE

GASKET







INSIDE HANDLE

EXTERNAL HANDLE

FD-02-P

◆ ALUMINUM COATED PLASTIC GLASS DOOR

Features:

Triple tempered glass with LED strip inside

Black color silkscreen border

Aluminum alloy door frame

Self closing hinge system

Hold Open and Doorstop

Magnetic door gasket seal

Full length handle or Hidden handle

HDMI/VGA/USB/SD Card

Options:

Cooler or Freezer

Frame color:Black, Silver

Touch function

WIFI Connection

PC Version Media box

- -

Custom sizes available

Application:

Convenience store Vending machine



















PVCD-01

◆ PVC GLASS DOOR

Features:

PVC Frame2–Pane/3–Pane tempered glass Low–E coated glass Self Closing Hinge System

Options:

Custom sizes & color available Inside LED Lighting available

Application:

Glass door beverage cooler, etc.



















OD-W01

◆ WINE CABINET GLASS DOOR

Features:

Double tempered glass

Heated glass technology

Top and bottom brackets

Aluminum alloy door frame

Exclusive hinge system design

Magnetic door gasket seal

Easy Installation

Silkscreen

Options:

Frame color:Black, Silver

Handle: Slim handle or full length handle

Cylinder lock Add-on

Custom sizes and logo available

Application:

Wine cabinet





VD-01

◆ VENDING MACHINE GLASS DOOR

Features:

Double tempered glass with argon gas (cooler)

Triple tempered glass with argon gas (freezer)

Glass heating technology

Silkscreen printing

Conductive fabric on glass edges & Magnetic gasket

Aluminum frame

Slimline handle and recessed handle

Custom sizes available

Application:

nack and beverage vending machine

Support QR Code Payment





ADVERTISING GLASS DOOR

AD-T01

◆ TLCD GLASS DOOR

Features:

Triple tempered glass with LED strip inside

Black color silkscreen border

Aluminum alloy door frame

Self closing hinge system

Hold Open and Doorstop

Magnetic door gasket seal

Full length handle

HDMI/VGA/USB/SD Card

Options:

Cooler or Freezer

Frame color:Black, Silver

Touch function

WIFI Connection

PC Version Media box

Custom sizes available

Application:

Convenience store

Vending machine

SCREEN SIZE (INCH)	MINIMUM DOOR SIZE ((WIDTH * HEIGHT MM)	Display Area ((width • Height MM)
15	361.5 x 542.6	194 x 344
22	463 x 675	298 x 475
32	559.5 x 908	391 x 697
37	632 x 1031	460 x 819
42	692.5 x 1152	524 x 931
46	734 × 1225	574 × 1018
50	744 × 1294	617 × 1096



AD-L01

♦ LED LOGO GLASS DOOR

Features:

Customized Logo

Triple Insulating Glass (Double Tempered Glass+1 Pane Acrylic Panel)

LED Strip Inside Glass

Aluminum Alloy Door Frame

Options:

Heating Option Available

Customized LED Strip Color

Custom sizes available

PVC Profile Door Frame



COMMERCIAL FREEZER SLIDING LIDS

SL-01

◆ ASSEMBLY TYPE SLIDING LIDS

Features:

4mm Low-E Glass Handle include Left-Right sliding

Options:

Frame Color:Black/Grey/White Tempered Glass: Flat or Curved Lock and Key available Application:

Ice Cream Freezer

Sizes:

Custom sizes available









SL-02

◆ ASSEMBLY TYPE SLIDING LIDS

Features:

4mm Low-E Glass Handle include Left-Right sliding

Options:

Frame Color:Black/Grey/White Tempered Glass: Flat or Curved Lock and Key available

- Application: Ice Cream Freezer
- Sizes:

Custom sizes available





COMMERCIAL FREEZER SLIDING LIDS

SL-03

◆ ASSEMBLY TYPE SLIDING LIDS

Features:

4mm Low–E Glass
Handle included
Left–Right sliding

Options:

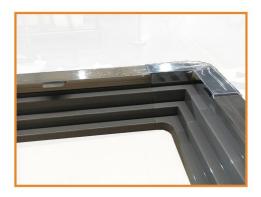
Frame Color:Black/Grey/White Tempered Glass: Flat or Curved Lock and key available Applications:

Sizes:

Custom sizes available

Ice Cream Freezer







SL-04

◆ PLASTIC DIE CASTING SLIDING LIDS

Features:

4mm Low–E Glass
ABS Injection frame
Handle included
Left–Right sliding

Options:

Frame Color:Black/Grey/White Tempered Glass: Flat or Curved Lock and key available Applications: Ice Cream Freezer

■ Sizes: 598*1094mm/598*1294mm Custom sizes available















SUPERMARKET RETROFT GLASS DOOR

SR-01

◆ VERTICAL CABINET RETROFIT

Features:

Flexible for various of showcases Heated glass and frame technology

Double tempered glass

Hold Open and door stop

Torque and saq adjust

Magnetic door gasket for tight seal

T-8 LED lighting

Full length handleEasy installation

Self Closing hinge system

Options:

Customized size and Logo

Application:

Old or second-hand medium temperature multideck showcase





SR-02

◆ DEEP CHEST FREEZER RETROFIT

Features:

4mm Low-E Glass

Eco–Friendly food grade PVC Profile & ABS Corner Collision BarsABS Profile

Anti-Fog & Anti-Dew

Options:

Frame Color: Grey or Blue Tempered Glass: Flat or Curved

Sliding direction: UP-Down or Left-Right

Custom sizes available

Application:

Supermarket deep chest freezer







GLASSES

IG-01

♦ INSULATED GLASS

Features:

3.2mm/4mm tempered glass
Aluminum space thickness(mm)
4A/5.5A/6A/7A/8A/8.5A/9A/10.5A/11.5A/14.5A/18A/19A/21A
Sufficient ECO–Friendly desiccant in the aluminum spacer(90%+)
Argon gas filled to prevent fog
Customized silkscreen logo

Options:

Low–E coated tempered glass or normal tempered glass

Double / Triple Hollow

Customized size (Length, Width & Thickness)









CG-01

◆ TEMPERED GLASS

Features:

4mm Low–E Glass
Eco–Friendly food grade PVC Profile & ABS Corner
Collision BarsABS Profile
Anti–Fog & Anti–Dew

Options:

Frame Color: Grey or Blue
Tempered Glass: Flat or Curved
Sliding direction: UP–Down or Left–Right
Custom sizes available

Application:

Supermarket deep chest freezer













COMMERCIAL COLD ROOM

CR-01

◆ WALK-IN COLD ROOM

Features:

Thickness: 50mm-200mm PU&PIR for Cooler/Freezer Cam-Lock or Plug-in splice method With display glass door & shelving system

Options:

Custom sizes available

Refrigeration units

Heated foaming swing entry door

Applications:

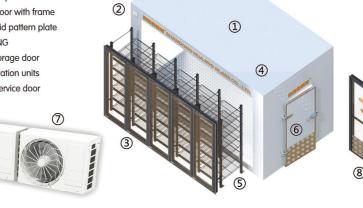
Supermarket /Convenience Store /Pharmaceutical Products Storage

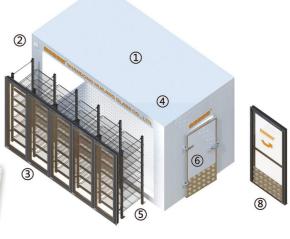




Cold storage components

- 1 Cold storage board
- 2 Control system
- 3 Glass door with frame
- 4 Anti–skid pattern plate
- **5** SHELVING
- 6 Cold storage door
- 7 Refrigeration units
- **8** Glass service door





Comprehensive Overview							
Product			Supermarket/Hotel/Bar/Food/Medical treatment etc				
Panel Size	Customized	Applicable Temperature Range	-75~+10℃				
Applicable Voltage	110v,220v,380V	Power	Customized according to cold room area				
Certificate	CE,ISO9001,CB,GS,ROHS	Warranty	2 years				
Cold Room Door	Heated cooler&freezer glass door	Cold Room Panel	Polyurethane Sandwich Panel				
PU Panel Specifications							
Metal Layer Specification	0.4/0.5/0.6/0.8mm	Panel Width	Customized				
Metal Layer Material	Metal Layer Material Color steel/stainless steel/Emboseed Aluminum etc		Regular grey white(can be customized)				
PU Density	40 ± 2kg/m²	Panel Thickness	75mm, 100mm, 120mm, 150mm				
Bending Strength	331MPa	Heat Transfer Coefficient	0.024W/m² • k				
Fire Rating	B2	Connection Method	Plug in / cam lock				
Base Plate Thickness Applicable Temperature Range							
High Temperature 0~(+5) [*] ℃	75mm	Medium Temperature (-5) ~(+10) ℃	75mm/100mm				
Low Temperature (-18)~(-30) °C	100mm/120mm/150mm	Ultra Low Temperature (-75) ℃ or above	150mm				

DRL-01

◆ DOUBLE REFLECTOR LENS LAMP

- Color temperature: 3000K/4000K/6500K
- Working voltage: AC100~240V, DC24V
- Optical properties: CRI:94, R9:72, Rg:100, Rf:75
- Luminous maintenance rate: L90>554,000h, L70>100,000h
- Working temperature: -30°C~60°C

EN 55015, EN 61547, EN 60598-1 EN 60598-2-1, EN 60529, GB 7000.1, GB4706.1 FCC PART 15 SUBPART B, UL 8750











COLOR TEMP	PRODUCT SERIES	INPUT VOLTAGE	INPUT CURRENT	INPUT POWER	OUTPUT VOLTAGE	OUTPUT CURRENT	LUMINO US FLUX	LUMINOUS EFFICIENCY
	1700 CENTER	24 V	542 mA	13 W	20 V	614 mA	1760 lm	135 lm/w
	FIXTURE	220 V	118 mA	13 W	57 V	198 mA	1630 lm	125 lm/w
	1700 END	24 V	258 mA	6.2 W	19 V	309 mA	880 lm	142 lm/w
3000K	FIXTURE	220 V	56 mA	6.2 W	55 V	96 mA	790 lm	127 lm/w
	1400 CENTER	24 V	500 mA	12 W	21 V	537 mA	1610 lm	134 lm/w
	FIXTURE	220 V	109 mA	12 W	46 V	226 mA	1490 lm	124 lm/w
	1400 END	24 V	500 mA	12 W	21 V	537 mA	1610 lm	134 lm/w
	FIXTURE	220 V	238 mA	5.7 W	20 V	267 mA	810 lm	142 lm/w
	1700 CENTER	24 V	542 mA	13 W	20 V	614 mA	1900 lm	146 lm/w
	FIXTURE	220 V	118 mA	13 W	57 V	198 mA	1750 lm	135 lm/w
4000K	1700 END	24 V	258 mA	6.2 W	19 V	309 mA	950 lm	153 lm/w
1	FIXTURE	220 V	56 mA	6.2 W	55 V	96 mA	850 lm	137 lm/w
6500K	1400 CENTER	24 V	500 mA	12 W	21 V	537 mA	1730 lm	144 lm/w
	FIXTURE	220 V	109 mA	12 W	46 V	226 mA	1600 lm	133 lm/w
	1400 END	24 V	238 mA	5.7 W	20 V	267 mA	870 lm	153 lm/w
	FIXTURE	220 V	52 mA	13 W	44 V	111 mA	780 lm	137 lm/w

ERC-01

◆ ERC LIGHT











100-240VAC INPUT COOLER LIGHTING SYSTEM PARAMETERS									
ITEM	COLOR TEMP	INPUT VOLTAGE	LUMINOUS FLUX	INPUT POWER	COLOR RENDERING	LUMINOUS EFFICIENCY	COLOR TOLERANCE	WATERPROOF RATING	
LED Middle Lights	0.77m 6500K	80-260 V	2100(LM)	18 (W)	≥80	140 (LM/W)	< 5 SDCM	IP67	
LED Middle Lights	0.9m 3000-3500K	80-260 V	2100(LM)	18 (W)	≥80	140 (LM/W)	< 5 SDCM	IP67	
LED Middle Lights	1m 3000K	80-260 V	2100(LM)	18 (W)	≥80	140 (LM/W)	< 5 SDCM	IP67	
LED side lights	1m 3000K	80-260 V	1050(LM)	9 (W)	≥80	140 (LM/W)	< 5 SDCM	IP67	
	1.2m 3000K	80-260 V	2100(LM)	18 (W)	≥80	140 (LM/W)	< 5 SDCM	IP67	
	1.2m 6500K	80-260 V	1050(LM)	9 (W)	≥80	140 (LM/W)	< 5 SDCM	IP67	
	1.5m 6500K	80-260 V	4200(LM)	36 (W)	≥80	140 (LM/W)	< 5 SDCM	IP67	
LED side lights	1.5m 6500K	80-260 V	2100(LM)	18 (W)	≥80	140 (LM/W)	< 5 SDCM	IP67	
LED Middle Lights	1.7m 6500K	80-260 V	4200(LM)	36 (W)	≥80	140 (LM/W)	< 5 SDCM	IP67	
LED side lights	1.7m 6500K	80-260 V	2100(LM)	18 (W)	≥80	140 (LM/W)	< 5 SDCM	IP67	

CR-01

♦ SHELVING

Features:

Low–Carbon steel material

Powder Surface Coating for Post

Plastic surface dipping for wire mesh shelf

Weight capacity: 100KG/Layer

Options:

Color:Black/White
Price tag, Bracket,Stabilizer bar
Gravity roller plate

Applications:
 Walk-in Cooler & Freezer in Supermarket
 Display refrigerator

Sizes:

TP	Α	В	С		
Width	24"	30"	30"		
Depth	27"	27"	36"		
Custom sizes available					





SHELVES

GRAVITY FLOW SHELVES

OTHER PARTS

◆ CONDUCTIVE UPPER DOOR SHAFT

- You can quickly install the door on the door frame without a tool.
- Only one pointed nose pliers are needed to quickly remove the door body.
- Support reversible door system.
- Double layer protection with male sealing ring and female sealing plug,
- wterproof grade IP67,Salt Mist Test> 72H.
- Safety voltage withstand test>3000V ,
- Level 4 protection for male lead wires ,
- SUS304 shaft shell thickness> 2mm,
- PA66 high-pressure glue injection protection,RVV sheath wire,
- UL1332 18AWG PTFE wear-resistant, high-temperature,
- resistant (200 C) special wire,
- Level 3 protection for female lead wires ,
- PA66 high-pressure glue injection protection,
- UL1332 18AWG Double Wall PTFE Special Wire,
- 30mm heat shrink tubing protection for outlet wire.
- The lock tongue uses 0.8mm high-strength steel,
- deduction load 500kg,
- 6A continuous current temperature rising<5K,</p>
- Anti fatigue door opening and closing>300000 times.
- The electrodes and cases are stainless steel riven technology,
- tensile strength> 1000MPa,
- SUS304 shaft shell subject thickness> 3mm.







HIGH SECURITY



HIGH RELIABILITY



HIGH STRENGTH

◆ AD IUSTABLE BOTTOM HINGE

- No tools required for assembly
- The adjustment tool is a 4mm Allen wrench
- The locking tool is a 3mm Allen wrench
- The lubricating grease of the internal mechanism is fully wrapped,
- and the movement mechanism is not affected after being immersed in water for 48 hours,
- Salt Mist Test> 48H
- Adjust the point Y-to realize the left and right adjustment of the door body,
- easily adjust the gap between the door body.
- Adjust point S-to realize pre tightening of the bottom door shaft,
- while also having the function of locking the bottom door shaft,
- Adjustment point Z-realizes the up and down adjustment of the door body,
- easily solving the problem of uneven height of the door body,
- Bottom positioning rotary plate with shell locking/unlocking logo,easy to replace.
- The reliability of the regulating mechanism reaches 10KC,
- Anti fatique door opening and closing>300000 times.
- Processing accuracy of 0.02mm,
- effectively ensuring smooth transmission.
- HIGH STRENGTHHigh strength zinc alloy integrated die cast shell
- effective load>5000N.



- Y: Counterclockwise: move towards the handle side Clockwise: move towards the door hinge side. Note: The moving distance is ± 2mm.
- S: Counterclockwise: increase torque Increase rebound force of the door body. Clockwise: reduce torque Reduce rebound force of the door body. Note: When removing the door, the torque needs to be adjusted to 0 Adjust the torque to open the door at 30° and automatically rebound.
- Z: Counterclockwise: Door lowered (right opening) Door raised (left opening) Clockwise: door raised (right opening) Door lowered (left opening) Note: The moving distance is 4mm
- L: Counterclockwise : tightening fixed Clockwise : tightening remove



INSTALLATION &DISASSEMBLY STEPS

◆ DOOR INSTALLATION PROCEDURE

- Step1: Remove the protective cover of the conductive door shaft male pole on the door, refer to FIG.1
- Step2: Insert the bottom door shaft into the bottom hinge plate/adjustable bottom hinge shaft hole, refer to FIG.2
- Step3: Insert the male pole of the conductive door shaft on the door into the female pole of the conductive door shaft on the frame, and push it in with force. When you hear a "click", it means it is locked. The matching gap be tween the male pole
- and the female pole of the conductive door shaft is <0.5mm. Gently pull the door outward to ensure secure locking, and rotate the door to ensure normal movement. Refer to FIG.3
- Step4: According to the flatness of the door, the left and right gaps of the door can be adjusted through the Y adjustment point, and the Z adjustment point adjusts the upper and lower heights of the door to be consistent. For details, see the instructions in "Leading Module Adjustable Bottom Hinae".
- Step5: Install the door stopper into the stopper hole on the top of the door. After fixing, open it twice. If it can stop smoothly, it is qualified. Refer to FIG.4
- Step6: Open the door to 30°, adjust the door shaft preload and increase the torque until the door can automatically close. Repeat the opening to 30° twice. If it can close smoothly, it is qualified. Refer to FIG.5

DOOR DISASSEMBLY STEPS

- Step1: Adjust the bottom hinge torque to 0, refer to FIG.6
- Step2: Slightly open the door, detach the door stopper from the door and adjust the stopper to a position that does not interfere with the door, refer to FIG.7
- Step3: Use needle—nose pliers to clamp the upper edge of the lock tongue and the lower edge of the conductive door shaft male pole, and press the lock tongue to the maximum limit, refer to FIG.8
- Step4: Keep the needle-nose pliers clamped, and push outward together with the door to release the male pole of the conductive door shaft and separate it from the female pole of the conductive door shaft, refer to FIG.9
- Step5: Lift the door out from the bottom hinge shaft hole, refer to Fia.10























◆ INTELLIGENT TEMPERATURE CONTROL SYSTEM







SMART COLD CHAIN







IOT CLOUD



SMART INTEGRATION

PATENTED ALGORITHM

QUICK TO IMPLEMENT

■ SMART INTEGRATION

SHHAG anti-condensation intelligent electric heating temperature control system is integrated with multi functions: temperature and humidity display, delogging stability control, lighting control (can control 30A light start/stop), door switch delection, etc. It can achieve auto-malic real-time heating power control based on real-time environmental temperatures and humidity, dew point setting and real-time sensing temperature of door system. The dew point can be set by users, which is convenient for different users operate this system according to the actual conditions and requirements on site, meet individual needs.

PATENTED ALGORITHIV

SHIHAG has been serving the cold chain industry for 20 years and know the pain points of users very well. The system uses SHIHAG's unique invention patent algorithm, which is different from on-off or pulse control commonly used in the industry. It can calculates the glass door dew point temperature automatically based on the environment changes, and maintain the dew point temperature by controlling the glass door heating. Realizing real-time detection and controlling of door surface temperature. This system solves the high energy consumption situation of traditional electric heating, which uses high power to maintain the door surface temperature much higher than the dew point temperature throughout the entire period. The comprehensive energy savinar reaches more than 40%.

■ IOT CLOUD

Monitoring and operation can be realized through the Tuya Smart APP on the mobile phone and the display component to achieve real-time monitoring and control. The system can integrate remote control communication functions and can be customized according to different customer requirements to realize remote collection of information such as door switch times statistics, remote inspection, remote control, power monitoring, product video, on-site audio, etc.

QUICK TO IMPLEMENT AND SIMPLE TO OPERATE

The entire system is integrated into an integrated electric control box. Whether it is newly installed or upgraded, each group of cabinets only needs to connect one door temperature probe and one door power supply wire (door switch times counting function needs to be connected separately). Parameter setting can be operated through the 7-inch touch screen or mobile APV.

PARAMETER SETTING

■ TOUCH SCREEN OPERATION

Dew point temperature correction adjustment: Press the "" "key on the first page to enter the adjustment page, and then press the or key to change the value and save it. On the second page, press and hold the "Parameter Setling" button for three seconds, enter the parameter setling page > parameter area, select the "up" and "down" keys, display E1 ~ CE in sequence, select the parameter to be adjusted > value area, select "up" and "Down" keys modify the setling value. It will automatically exit after 15 seconds without pressing any key or press an "Exit" key to exit and save the new set value. On the second page, press the "Light Control" button to activate or cancel the light control function.









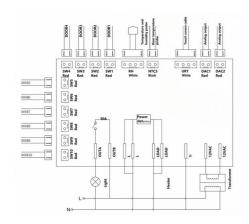
APP OPERATION

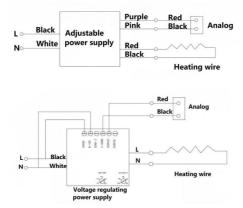
The first network configuration needs to be operated on the touch screen. Enter the parameter setting page on the second page > Network distribution butlon. After multiple network configurations, the connection will be completed. After one connection, the network configuration will be fixed until the next firm ethe network is configured again. Home page of the APP. Displays ambient temperature/ambient humidity. Press the "Settings" button in the lower right corner to enter the second page, where you can set the dew point compensation value (range: -5-+5°C) and lighting; at the same time, it displays cabinet glass door remperature, developed, even point temperature, voltage, current, power and other realizine data and 1-10 glass door switch count statistics, with clearing function. On the historical data page, historical temperature, humidity data and alarm data are displayed.

◆ INTELLIGENT TEMPERATURE CONTROL SYSTEM

BASIC PARAMETERS							
POWER SUPPLY	TEMP RANGE	ACCU	RACY	AMBIENT TEMP	RELATIVE HUMIDITY		
AC12V	-45~99℃ (-49~210°F)	± 1℃(±1°C(±2°F) –10 ~ 60°		20% ~ 90%		
OVER	ALL DIMENSIONS		SCREEN SIZE				
L217MN	/I*W150MM*D21MM		L131MM*W76MM				
II	NPUT SIGNAL			OUTPUT CONT	ROL		
Environment temperature and humidity probe x1			Lighting: Normally on 30a/250vac				
Door ntc temperature probe*1			Tw	o heating signals: 0~10v	/dc.		
10 sets of door	r switch signals						

ELECTRONIC CONTROL LAYOUT





APPLICATIONS

- This product uses Glass WG12, online coated glass for testing. (6 pieces in total), laser film removal equipment is used on the four sides of the glass for film removal and insulation treatment, and Imm laser film removal is used in the middle of the glass to cut the glass resistance value.
- \blacksquare The normal resistance of glass of this size is: 33.8 Ω. By cutting it in the middle, the resistance increases 3.7 times to 125 Ω.
- The glass wastested for heating stability test. The glass surface heats evenly. Conduct a dielectric withstand voltage insulation test on the product (1800/25, leakage current ≤ 4mA/dielectric withstand voltage 500v/≥ 100MΩ), and the product reaches the qualified standard.
- Equipment glass door dew point control compensation +2℃.
- Test conditions

TEST CONDITIONS	THEORETICAL DEW POINT	TEST CONDITIONS	THEORETICAL DEW POINT
26°C/60%RH	17.6°C	30℃/75%RH	26.2℃
27°C/70%RH	21.1℃	34°C/80%RH	32.1℃
	25.1℃		34.1℃

■ TEST CONCLUSION

The technical specifications are consistent with the actual measured values because there is energy—saving automatic control. When the lowest temperature on the surface of the glass door is lower than the dew point temperature, the glass door automatically changes power to heat, and there is no condensation in the process. Through the temperature and humidity sensing probe, the system automatically controls the heating power of the glass door, which can maximize energy saving effects and reduce the power by 46%.







COMPANY STRENGTH

◆ CERTIFICATION

The company has obtained more than 10 patents and also the certificates of CE, ETL, DOE, ROHS, SGS, SASO and CCC. All the products are manufacturedin compliance with the ISO 9001:2008 criteria.













































COMPANY STRENGTH

◆ PROFESSIONAL PACKAGING AND DELIVEPY SERVICES



◆ FACTORY AREA

















