

ORIGINAL
MANUAL



OWNER'S AND INSTALLATION MANUAL

Puro-Air kit

HFB1-P-U02

HFB1-P-U04



Read this manual carefully before using the product, and keep it handy for future reference.

Preface

Dear user

Thank you for using Puro-Air Kit.

For safe use of this product, please install it correctly.
Carefully read the precautions and installation methods in this manual before installation. Incorrect installation may cause the product to fail to function or lead to mechanical faults or accidents.
This manual is meant to be used with Puro-Air Kit. The instructions delivered with the indoor unit are for reference as well.

Contact your local agent one month before cooling in summer and heating in winter to clean, maintain, check, and repair the product. This is to prevent any inconvenience you may experience in your life and work if the air conditioner malfunctions right when you need to use it.

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Safety Warning

Safety Precautions

Note

Carefully read this manual before operation, and operate the product in strict accordance with this manual. Failure to operate the product in accordance with this manual may cause damage to the product, property loss, or personal injury.

Warning

- This product is connected to the air return side of the indoor unit.
- Its model must be selected based on the air flow of the target indoor unit.
- Prior to installation, confirm the air flow of the indoor unit to be connected in accordance with the configuration table.
- Before handling or installing this product or its parts, or replacing the Puro-Air Kit, put on a mask, protective glasses, gloves or other protective tools.
- Make sure to wear protective equipment, or you may suffer from injury if you make contact with the body, metal frames of the filter, or components.
- Ensure that the external air inlet is far away from the place where flammable gas is present.
- Improper installation may cause indoor oxygen levels to drop, resulting in an accident.
- Ensure that the external air inlet is far away from the place where flammable gas is present, for example, paint or gasoline. Operating the unit in such an environment may affect filter performance or even cause fire.
- Keep the transportation temperature in the range of 14°F to 180°F and relative humidity in the range of 10% to 90% (without condensation). If the ambient temperature exceeds 150°F, stop the product immediately.
- Do not use the product in humid outdoor locations or places where heat sources or flammable gases are present. Never try to repair the product on your own. Otherwise, you may suffer from injury or invalidate the warranty.
- UV radiation is dangerous for the eyes and skin. Do not operate the UV-C emitter outside the appliance.
- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
- Children should be supervised to ensure that they do not play with the appliance.
- This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.
- Children shall not play with the appliance.
- Cleaning and user maintenance shall not be made by children without supervision.
- The appliance shall be installed in accordance with national wiring regulations.
- Do not operate the UV-C emitter when it is removed from the appliance enclosure.
- The method, frequency of cleaning, and necessary precautions to be taken. Please refer to the following "Lamp Replacement" of "Other Notes".
- Appliance contains a UV-C emitter.
- Unintended use of the appliance or damage to the housing may result in the escape of dangerous UV-C radiation. UV-C radiation may, even in little doses, cause harm to the eyes and skin. Appliances that are obviously damaged must not be operated.
- Appliance must be disconnected from the supply before replacing the UV-C emitter.
- If the supply cord is damaged, it must be replaced by the manufacturer or its service agent or a similarly qualified person in order to avoid a hazard.

Caution

- Make sure to install this product and its duct in an insulated indoor space.
- If this product is installed outdoors, it may perform less efficiently or condensation may occur.
- If the air flow of the indoor unit exceeds the normal range, the sterilization efficiency will be reduced.
- Before using, maintaining, or repairing the Puro-Air Kit, power it off and carefully read the safety warning. It can only be replaced by professionals.
- If the UV-C radiation volume is insufficient, required sterilization effects may not be reached. UV-C may accelerate the ageing of non-metal materials (for example, plastics or rubber). Before using this product, protect the non-metal materials that are directly or indirectly exposed in the UV-C radiation range.
- The lamps delivered with this product contain HG. Make sure to observe applicable laws and regulations when treating them as waste.
- The unit performs stably in the temperature range given in above table. If the indoor temperature is outside the unit's normal operating range, it may stop running and display an error code.
- The appliance shall be installed in accordance with national wiring regulations.

The operating temperature range under which the unit runs stably are given in below table.

	Cooling mode	Heating mode
Indoor temperature	17~32°C(DB)	15~27°C(DB)
Indoor humidity	≤80%(a)	
(a) Condensation will form on the unit surface and water dripping out of the unit when the indoor humidity is beyond 80%		

DISPOSAL

- Do not dispose this product as unsorted municipal waste. Collection of such waste separately for special treatment is necessary.
- Do not dispose of electrical appliances as unsorted municipal waste, use separate collection facilities.
- Contact you local government for information regarding the collection systems available.
- If electrical appliances are disposed of in landfills or dumps, hazardous substances can leak into the groundwater and get into the food chain, damaging your health and well-being.

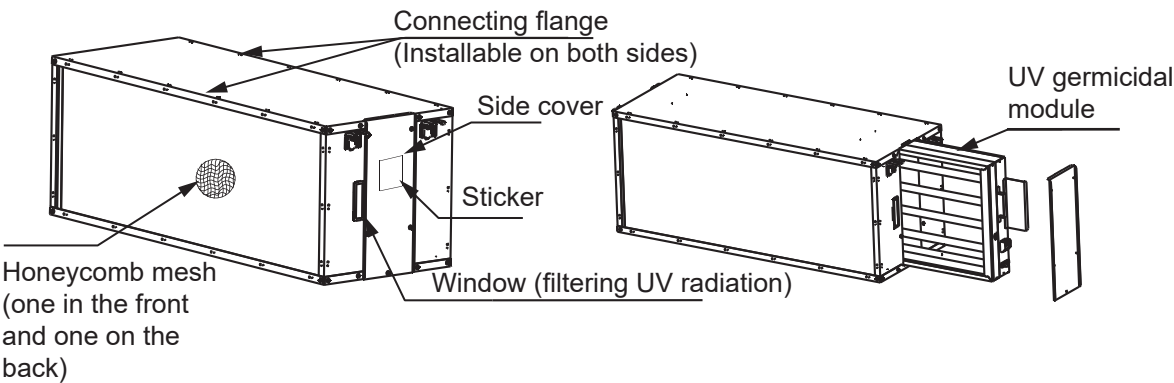
Product Overview

Package Contents

Puro-Air Kit X 1

Manual X 1

Components



Configurations and Parameters

Configuration Table

SN	Model	Module Model		Air Flow
1	HFB1-P-U02	GLX.SJ-02-60W	(2-lamp)	$\leq 2600 \text{ m}^3/\text{h}$
2	HFB1-P-U04	GLX.SJ-04-120W	(4-lamp)	$\leq 4300 \text{ m}^3/\text{h}$

Installation

Preparations Before Installation

- For details about the installation position, see the manual of the indoor unit that the Puro-Air Kit is connected to.

Note: The Puro-Air Kit must be connected to the air return side tube of the connected indoor unit.

- Ceiling holes should be drilled based on installation requirements (if the ceiling is old). Before drilling holes on the ceiling, solidify the skeleton of the ceiling to prevent it from vibrating. For specific operations, consult architects or upholstery professors.
- Install hanging bolts. They must be prepared on site. The recommended size of the bolts is M10.

To ensure that the ceiling can bear the weight of this product, use anchor bolts (prepared on site) to secure the product if the ceiling is old; and use concealed bolts and concealed pull bolts (prepared on site) if the ceiling is new.

- Reserve a repair area (as shown in Figure 1) for replacing and repairing the Puro-Air Kit and lamps. The Puro-Air Kit can be installed according to on-site space without consideration of the air outlet direction. After the Puro-Air Kit is installed, stick insulation materials on the surface to avoid condensation.
- Record the date of installation for future reference in case the product needs replacement. If the lamps will be used for eight hours per day, they will be attenuated by 20% in three years.

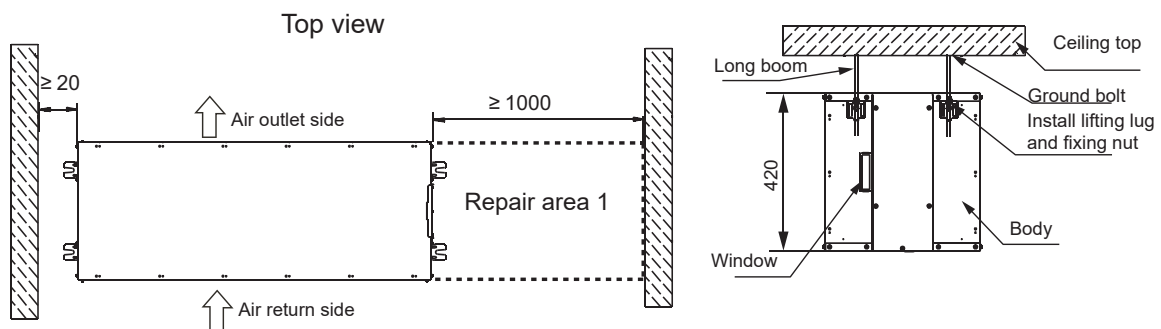
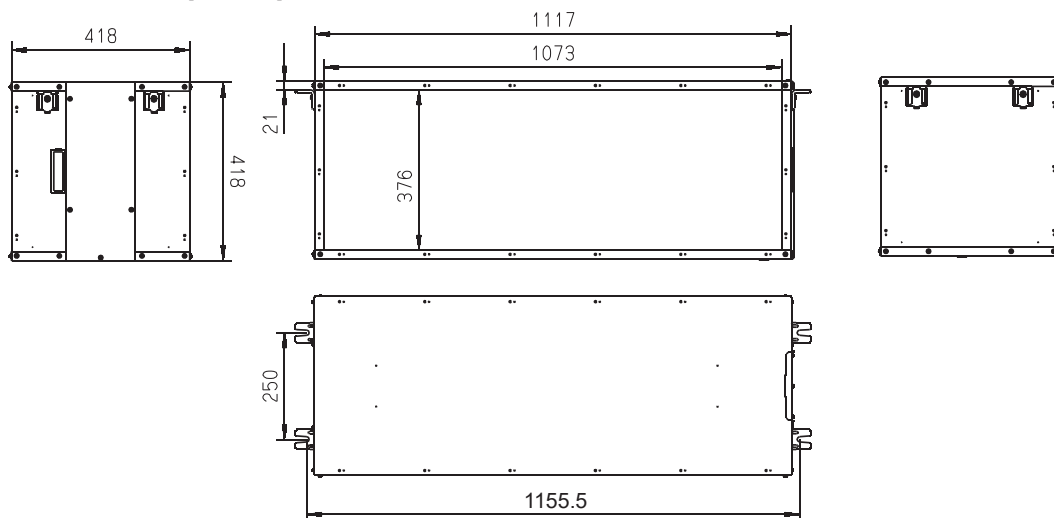


Figure 1

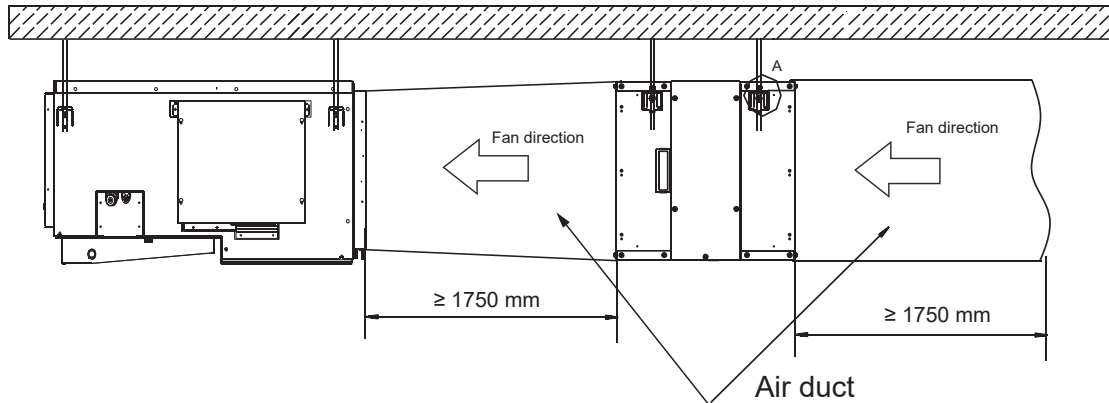
Dimensions (mm)



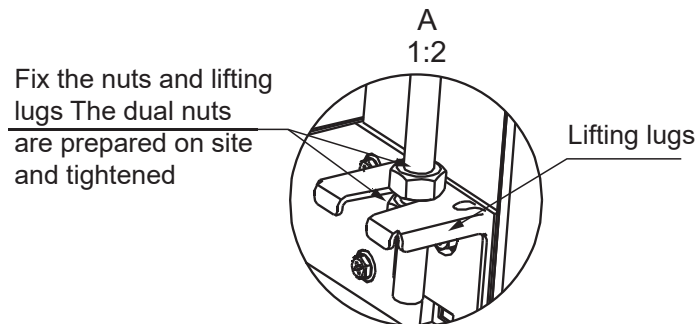
Installation Method

1. Install the body.

- Place the Puro-Air Kit on the air return side of the indoor unit to be connected, locate its position, and install the lifting lug on the suspended bolt (as shown in the following figure).
- Use M10 nuts with washers (prepared on site) at the upper and lower sides of the lifting lug to secure it.
- The air outlet of the Puro-Air Kit can be set to any direction according to on-site space.
- The installation materials of the Puro-Air Kit must meet the radiation prevention and ageing requirements.



Note: The air ducts located at both sides of the cabinet must be made of metal materials. (Length ≥ 1750 mm, as shown in the figure)

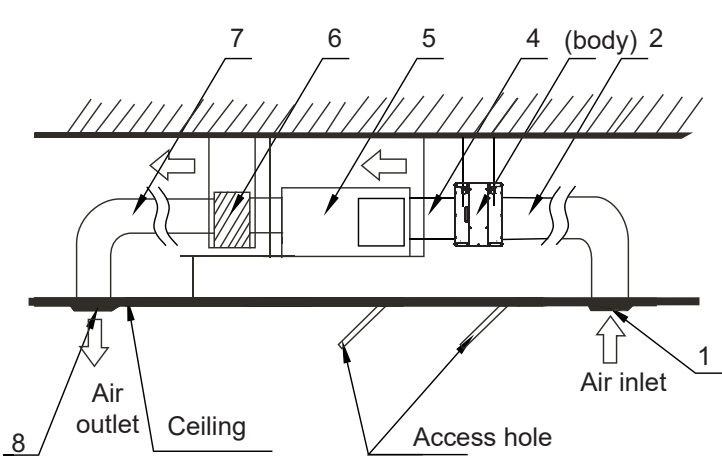


2. Adjust its height.

3. Use a level instrument or other tools to confirm that the product is installed horizontally. (Tilt angle $< 1^\circ$)
4. Tighten the nut (prepared on site) on the top to secure the body.

Air Duct Installation

- 1. The air inlet flange and air outlet flange are connected to air ducts, respectively.
- 2. Seal the connection parts of the flange and air duct with aluminum foil tape.
- 3. Use screws (prepared on site) to connect the air duct to the unit.



Legend	
1	Air inlet mesh (prepared on site)
2	Air inlet duct (prepared on site)
3	Puro-Air Kit
4	Air duct (prepared on site)
5	Master unit of the air conditioner
6	Air plenum (prepared on site)
7	Air outlet duct (prepared on site)
8	Air outlet (prepared on site)

⚠ Caution

- Make sure that the minimum tilt angle formed between the air duct and outside is at least 1/100.
- If the cabinet is made of metal materials, the minimum clearance between the box and the air duct must be 1.75 m to prevent UV radiation.
- Stick insulation materials to the air inlet/outlet duct and box to avoid condensation.
- Except for the Puro-Air Kit, other components must be prepared on site.

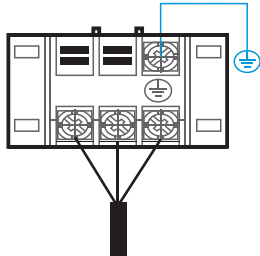
- 4. The pipe installation methods in the following figure are forbidden.
- 5. Make sure that the air intake side of the air duct tilts down to prevent water accumulation.
- 6. Connect the air duct so that the air intake side can take in outside air; otherwise the unit cannot operate normally.
- 7. The flange connection and lifting lug used on the air duct and body must be insulated to prevent condensation (material: glass wool or expanded polyethylene; thickness: 25 mm).
- 8. If a metal air duct is used to penetrate the iron or metal board of a wooden building, make sure to take electrical insulation measures to isolate the air duct from the wall.
- 9. When welding the air duct, avoid splashing dross onto the product.

Extreme bend	Reduce the diameter of the connecting pipe	Multiple bends	Bend near the air inlet/outlet

Electrical Wiring

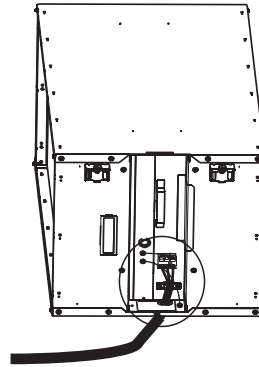
- The following figure shows the power cord terminal. Connect a power supply based on the following figure.

Puro-Air Kit Wiring



To indoor unit CN3: 220 V to 240 V, 50 Hz

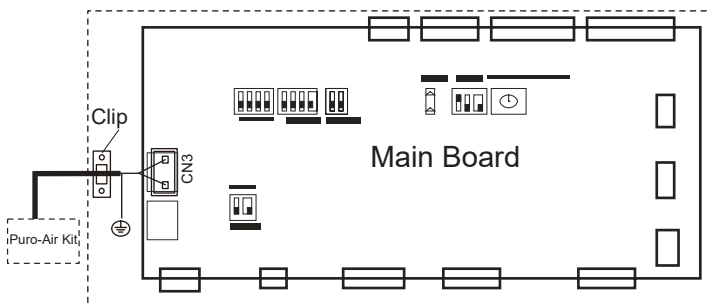
Puro-Air Kit Diagram



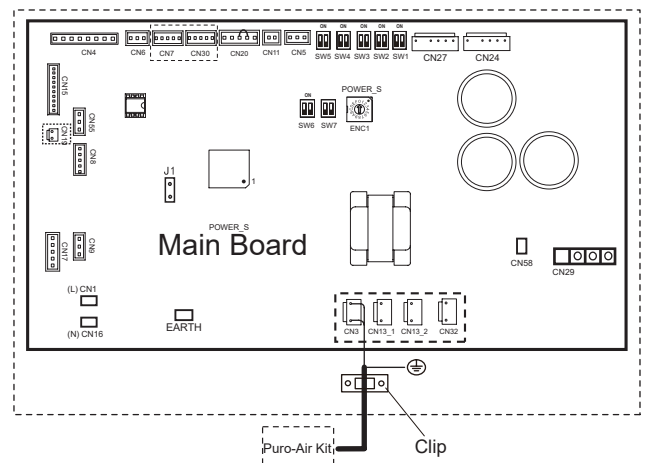
To indoor unit CN3: 220 V to 240 V, 50 Hz

indoor unit-side Wiring

Example 1: AC high static pressure

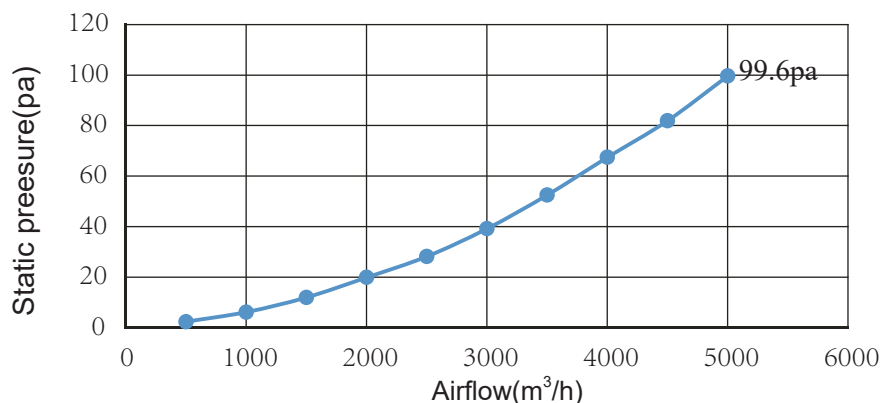


Example 2: DC high static pressure



Fan Performance

HFB1-P-U02
HFB1-P-U04



Other Notes

Lamp Replacement

Product Model	Module Model	Quantity
HFB1-P-U02	GLX.SJ-02-60W	2 lamps
HFB1-P-U04	GLX.SJ-04-120W	4 lamps

To replace the lamps or module, contact a local agent or after-sale service center. Do not use third-party components to replace the faulty ones. Otherwise, the filtration effect cannot be guaranteed. The repair and maintenance of products must be done by professionals.

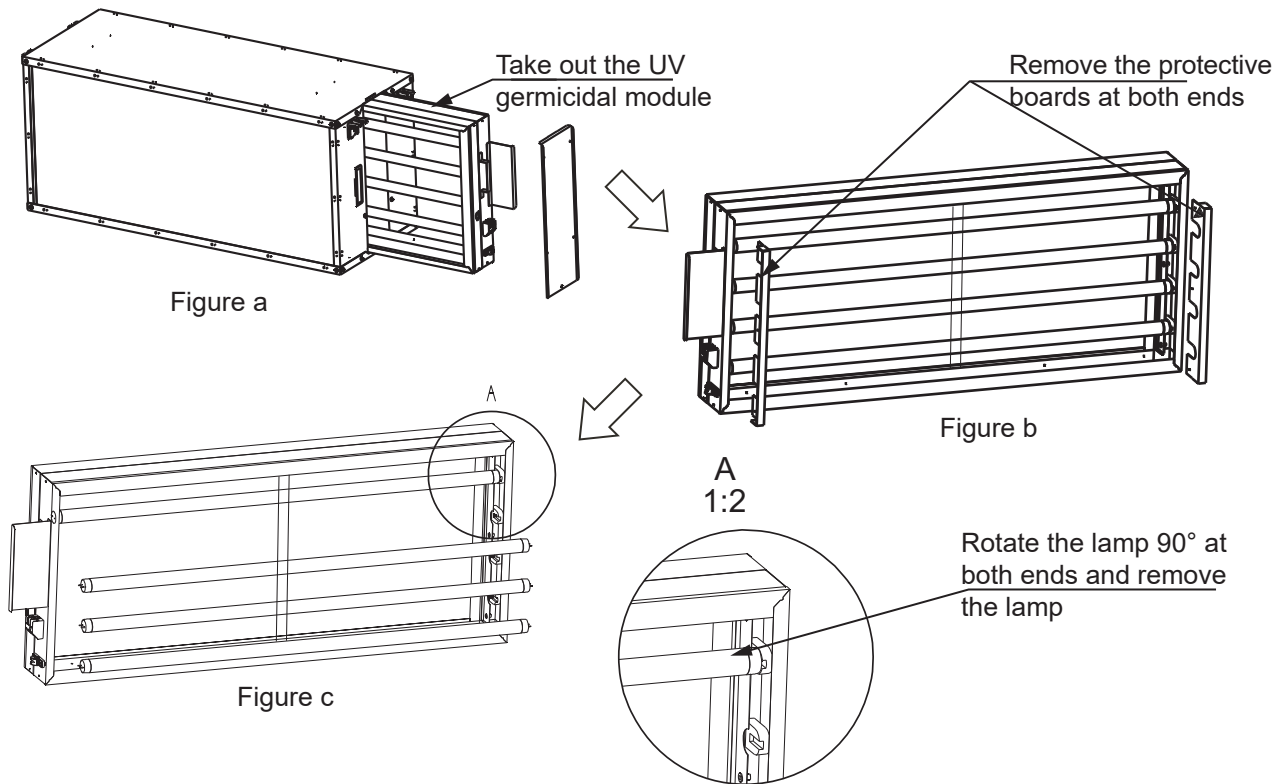
Lamp model HNS 30W G13

Lamp power 30W
Lamp voltage 96V
Lamp current 0.37A

(Suggestions: Replace the lamp once every 9000 working hours)

Steps

1. Wear mask, protective glasses, gloves or other protective tools. Otherwise, you may suffer from injury if you make contact with the body, Puro-Air Kit metal frames or components.
2. Before replacing the lamps, observe the lamp damage situation through the window located at the lateral side of the cabinet, and then Cut off the power supply of indoor unit and open the side cover.
3. Loosen the screws on the middle board, disconnect the power cable and ground cable, and take out the UV germicidal module (Figure a). When taking out the UV germicidal module, hold it with both hands to avoid dropping.
4. Loosen the protective boards at both ends (Figure b), hold a lamp at both ends and rotate it 90° to take it out (Figure c).
5. Install a new lamp, install the protective boards, and insert the module into the cabinet.
6. Connect the power cable and ground cable, and install the side cover.
7. An old lamp must be treated according to the applicable regulations on classified waste treatment.



Replacement and Repair Sheet

1. Replacement Items
- a. Module (02: GLX.SJ-02-60W; 04: GLX.SJ-04-120W)
- b. Lamp (note down order ① , ② , ③ , ④ up from down)
2. Records
- Tick corresponding item, and record the date of replacement and the person who completed the replacement.

Legend

Date		2020.07.03	2023.07.03	2023.07.03
Item	Module		04	
	Lamp	① , ③		① , ② , ④
Name		Alan	Alan	Alan

Date						
Item	Module					
	Lamp					
Name						

Date						
Item	Module					
	Lamp					
Name						

Date						
Item	Module					
	Lamp					
Name						

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MAIN OFFICE

Blasco de Garay, 4-6
08960 Sant Just Desvern
(Barcelona)

Tel. +34 93 480 33 22
<http://www.frigicoll.es>
<http://www.midea.es>

MADRID

Senda Galiana, 1
Polígono Industrial Coslada
Coslada (Madrid)

Tel. +34 91 669 97 01
Fax. +34 91 674 21 00
madrid@frigicoll.es