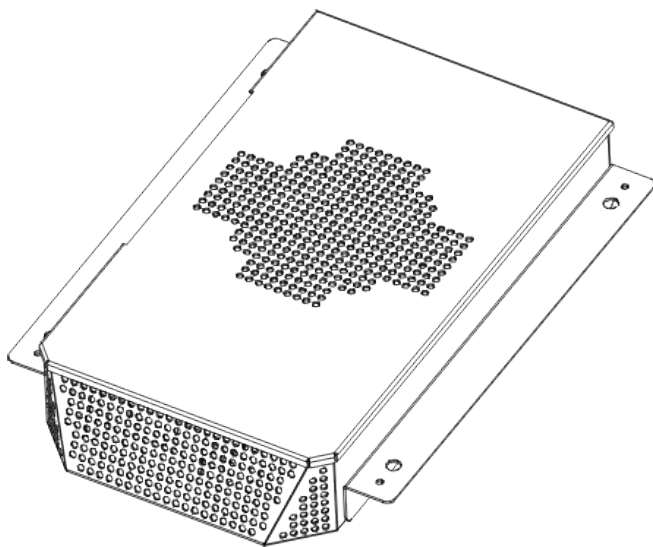


User Manual

用户手册

Air Purifier

空气净化器



使用前请仔细阅读使用说明书

Please read the manual carefully before use

阅读后请妥善保管

Please keep it properly after reading

目录

1 简介	1
2 安全注意事项	1
3 产品描述	1
3.1 主要组成	2
3.2 运行条件	3
3.3 正确使用	3
4 运行模式介绍	3
5 外形尺寸与接口说明	3
6 安装	4
6.1 安装位置	4
6.1.1 轿厢顶部走线、滤网维护空气示意	4
6.1.2 针对暗装的送回风口、维护口、风道的建议尺寸示意	5
6.2 安装说明	6
6.2.1 一般要求	6
6.3 安装与维护	7
6.3.1 机械安装	7
6.3.2 电气安装	7
6.3.3 过滤网的维护	8
6.3.4 等离子模组的维护	8
6.4 常见故障及排除	9
7 电气原理图	9
8 条形码说明	10
9 产品保证	10

简介

本手册只能用于指导空气净化器的安装和操作。手册内容包含机组的功能描述和定期维护的操作方法。

安全注意事项

为正确使用设备，需要严格遵守以下安全注意事项：

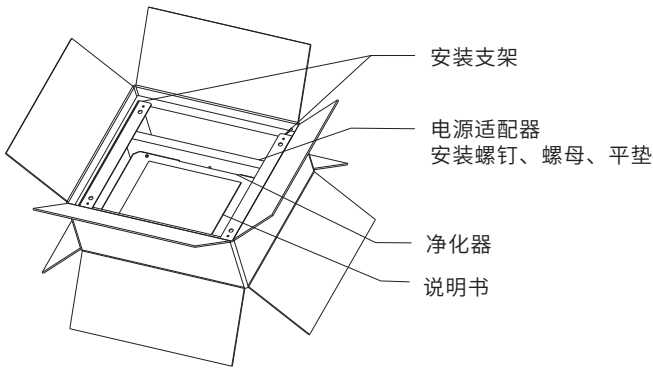
- △ 组装，安装和维修只能由经过专门培训的专业人员进行。
- △ 请勿堵塞内部或外部空气净化器的进风口或出风口。
- △ 只能使用原装备件和配件。
- △ 不要对说明书中描述的空气净化器进行任何更改。
- △ 电源适配器与净化器的连接要牢固，防止接触不良损坏净化器。
- △ 电气连接和任何维修只能由授权的专业人员进行。
- △ 该设备可供8岁及以上的儿童和身体状况不佳的人使用，感官或精神能力，或缺乏经验和知识，如果他们已经给予监督或指导，以安全的方式使用设备，并了解所涉及的危害。
- △ 儿童不得玩该设备。
- △ 儿童不得在没有监督的情况下进行清洁和用户维护。
- △ 本设备仅与提供的设备一起使用。
- △ 如果电源线损坏，则必须由制造商，其服务提供商或具有类似资格的人员进行更换，以避免危险。

产品描述

空气净化器是针对电梯等狭小空间且有人员流动的场所而开发的一款净化消毒产品。采用等离子杀菌消毒净化技术。本产品体积小、超薄设计，暗装于轿厢隔层内部或明装于轿厢顶部。同时设计噪音小、风量满足电梯净化消毒条件，能够保证轿厢内污染空气快速净化消毒处理。

等离子模组向空气中释放的离子群与物体表面、空气中的细菌和霉菌等微生物接触，由于离子本身携带多余电子，会破坏它们的分子蛋白结构，同时也会在空气汇总产生氢氧自由基，能使微生物细胞膜或细胞壁产生结构性改变（蛋白质两性性颠倒）或能量转移，从而使细菌病毒等微生物死亡。

3.1 主要组成部分



装箱清单			
序号	名称	数量	单位
1	净化器	1	SET
2	说明书	1	PCS
3	电源适配器	1	SET
4	安装支架	2	PCS
5	安装螺钉、螺母、平垫	1	SET



3.2 运行条件

适配器输入电压	AC 100-240V, 50/60Hz
适配器输出电压	DC 12V
工作温度范围	-20~55℃

△注意：净化器上的铭牌参数请用户仔细阅读，实际使用技术参数请以铭牌标称为准。

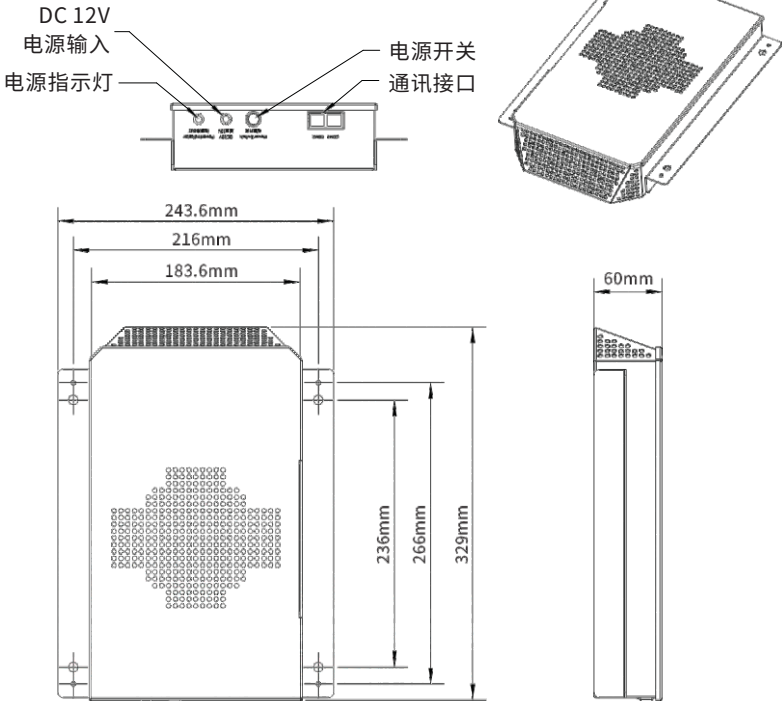
3.3 正确使用

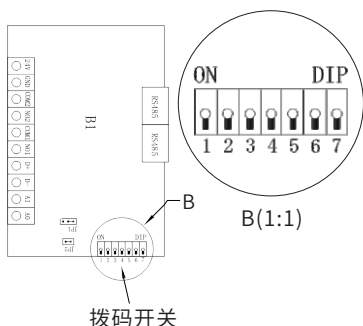
空气净化器是根据现有技术和公认的技术安全规则而开发设计。如果使用不当，可能对生命和肢体造成威胁，或造成财产损失。本产品安装使用请严格按照用户手册进行安装和使用。制造商对因使用或组装、安装和使用不正确导致的任何损害概不负责，所有风险均由用户承担。

运行模式介绍

按下净化器电源开关按钮，延时1S左右开启风机、等离子模组，设备进入消毒杀菌净化模式；关闭电源开关，净化器关机。

外形接口尺寸与接口说明





电源输入：DC 12V

通讯接口：RS485通讯

电源开关：开启或关闭产品开关

运行指示灯：产品正常运行时显示绿色，故障或掉电时无灯亮

拨码开关：控制板位于产品内部，需把外壳打开；风机调速时，拨码开关1向上保持不变，5向上为1档；6向上为2档；5、6同时向上为3档

具体如下表所示：

拨码 档位	1	2	3	4	5	6	7
1	ON				ON		
2	ON					ON	
3	ON				ON	ON	

安装

6.1 安装位置

6.1.1 轿厢顶部走线、滤网维护空间示意

选择安装地点时，请遵守以下规定：

- 请预留顶部走线和操作空间，并且过线孔直径建议不小于20mm；如图6.11。为了方便维护，滤网侧空间至少要有350mm，如图6.12、6.13。
- 该地点建议无油渍和灰尘。
- 空气净化器如安装在已有电梯中建议明装在轿厢顶部；对于新开发设计电梯轿厢建议使用暗装的方式设计在轿厢隔层内。
- 环境温度需要在设备允许的范围内。
- 必须保证设备铭牌上规定的电源规格。

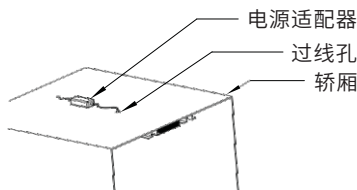


图6.11 明、暗装轿厢顶部走线示意图

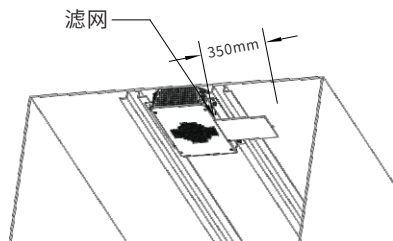


图6.12 暗装维护空间示意图

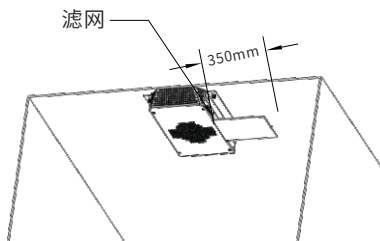


图6.13 明装维护空间示意图

6.1.2 针对暗装的送回风口、维护口、风道的建议尺寸示意图

(1) 送风口、回风口、维护口建议最小尺寸值，如图6.14

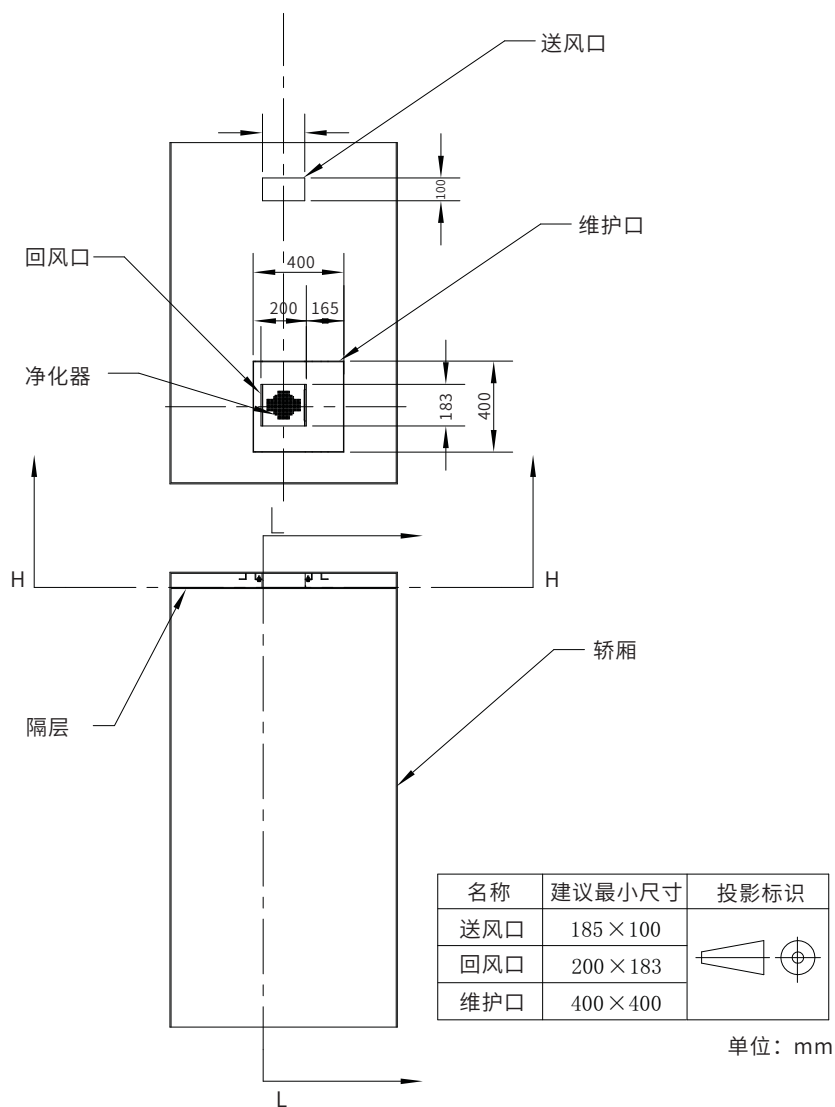


图6.14 送回风口、维护口建议最小尺寸示意图

(2) 风道建议最小尺寸值，如图6.15

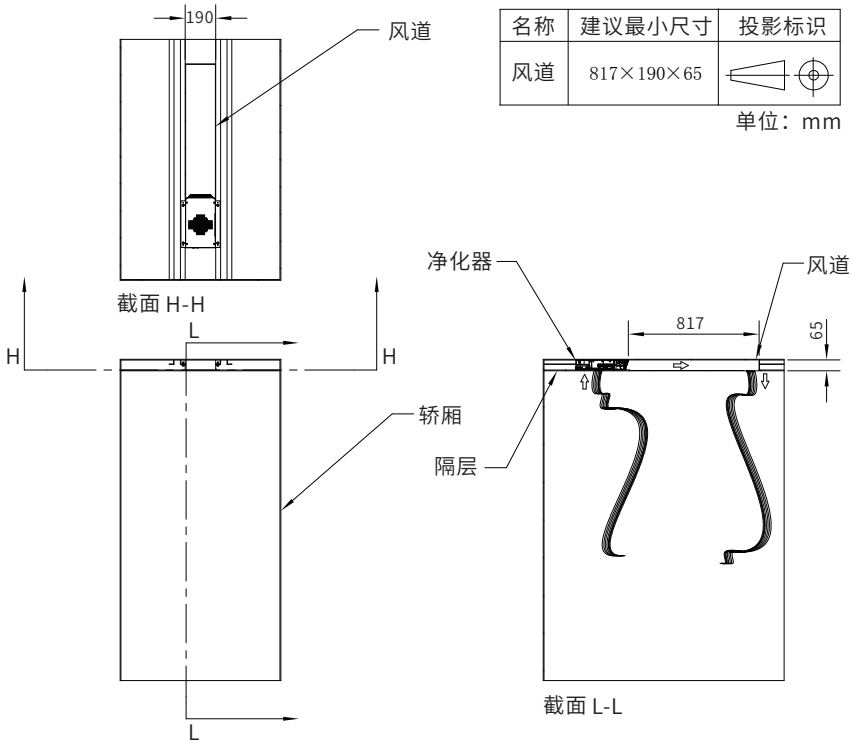


图6.15 风道建议最小尺寸示意图

6.2 安装说明

6.2.1 一般要求

- 开箱前及开箱时应当仔细检查包装是否有损坏的迹象。任何包装损坏可能是后续功能故障的原因。
- 开箱后请首先清点箱内物品，确认产品和附件齐全。
- 为了保护环境，我们建议对包装纸箱进行回收利用。

6.3 安装与维护

6.3.1 机器安装

净化器安装前请清点附件包并按照以下步骤进行安装：

(1) 把纸箱内附件的4颗M5沉头螺钉与安装支架取出，用螺钉将安装支架固定在产品上，如图6.31

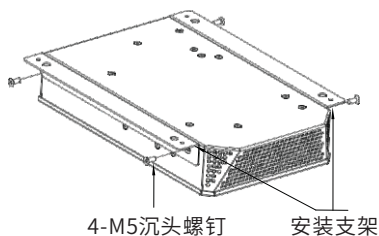


图6.31 明装/暗装支架状态示意图

(2)暗装在轿厢隔层内部根据安装支架开孔，取出附件包内4颗M6组合螺钉、4颗M6平垫、4颗M6螺母，固定在产品对应孔位上，如图6.32；

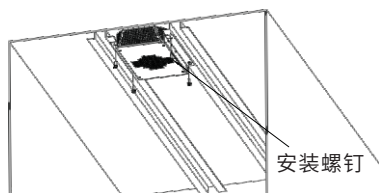


图6.32 暗装固定螺钉状态示意图

(2) 暗装方式把净化器安装支架上的螺钉螺母用六角扳手旋紧，如图6.34；



图6.33 明装固定螺钉状态示意图

明装方式把净化器安装支架上的螺钉使用十字螺丝刀旋紧，如图6.35。

6.3.2 电气安装

取出附件包中的电源适配器，连接净化器，并确保固定线缆可靠，如图6.36。

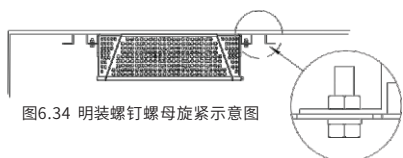


图6.34 明装螺钉螺母旋紧示意图

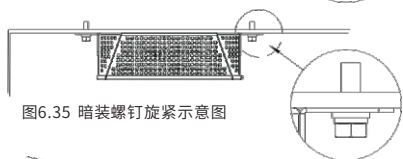


图6.35 暗装螺钉旋紧示意图

△ 注意

适配器输入电压过高可能导致产品损坏。请按照铭牌标注的电压要求接通电源；

为了避免任何破坏性的影响，接通净化器请采用带接地的三角插头进行连接。

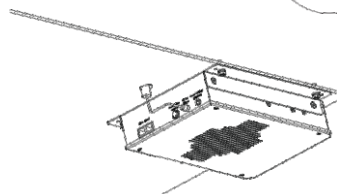


图6.36 电源适配器接线示意图

6.3.3 过滤网的维护

空气净化器配有初效过滤网。过滤网需进行定期清洗维护，具体根据现场实际情况，建议运行3个月清洗一次。

维护过滤网请参考以下步骤：

- 从净化器滤网侧抽出滤网，如图6.37。
- 按以上步骤反向操作，将清洗晾干后的过滤网装回净化器。

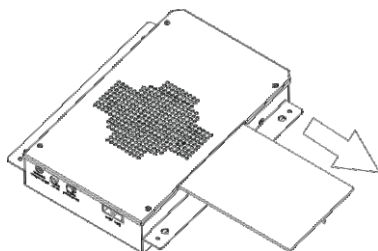


图6.37 滤网维护示意图

6.3.4 等离子模组的维护

等离子模组经过长时间使用后表面会积累少量灰尘，因此需要及时清洁，建议每年一次使用气枪吹掉表面上的灰尘，确保消毒杀菌的效果。清洁时请按照以下步骤进行维护：

- (1) 维护之前请确认电源已经切断；
- (2) 将位于净化器正面的四颗螺钉取出，如图6.38；
- (3) 将外盖拿出，露出等离子模组，如图6.39；
- (4) 将盖板上螺丝拧松部分螺纹、往一侧推，如图6.40
- (5) 将盖板与等离子模组依次向上取出，如图6.41
- (6) 使用气枪清洁等离子模组完毕后，按照以上步骤逆向操作，完成安装。

△ 注意：等离子模组内置控制板，请勿使用水来进行清洗。

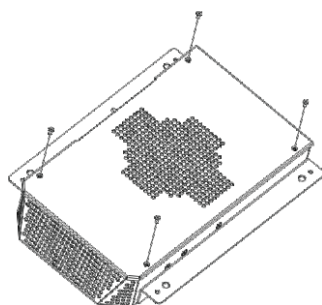


图6.38 等离子模组维护步骤一示意图

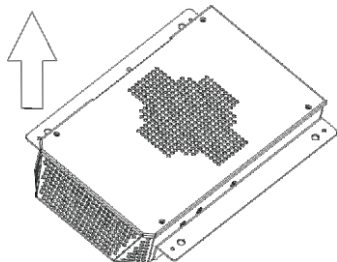


图6.39 等离子模组维护步骤二示意图

螺丝拧松

向上拧出部分螺纹

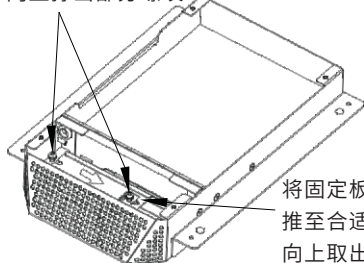
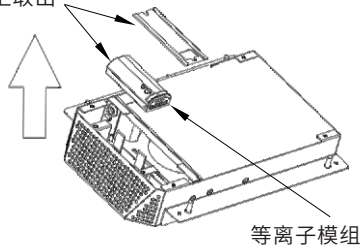


图6.40 等离子模组维护步骤三示意图

将盖板与等离子模组
依次向上取出

将固定板往右
推至合适位置
向上取出固定板



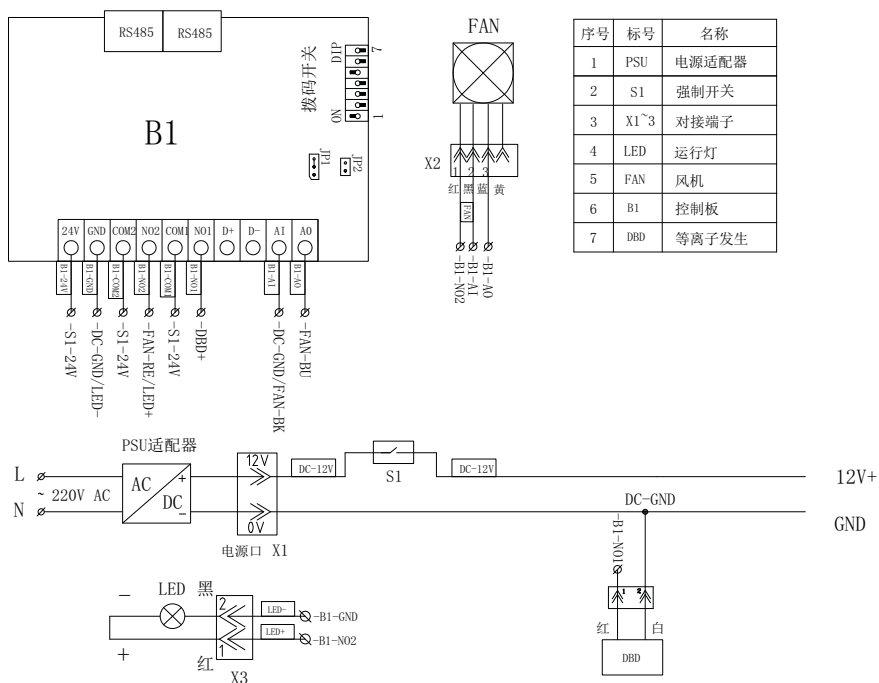
等离子模组

图6.41 等离子模组维护步骤四示意图

6.4 常见故障及排除

现 象	可能的原因	排除方法
整机不运行	电源松动	检查电源是否接触良好
风口风量微弱	过滤器脏堵	取出过滤网并进行清洗
	风机损坏	联系售后维修人员更换风机
运行指示灯熄灭	电源松动	检查电源是否松动
	指示灯损坏	联系售后维修人员更换
风机不转	风机损坏	联系售后维修人员更换风机

电气原理图



条形码说明

条形码上的对应生产日期以及序列号，如下图：



前13位(M019058000100)代表：厂家定义。
第14~18位(20501)数字代表：生产日期为2020年5月01日(A/B/C:10月/11月/12月)。
最后4位(0001)代表：本批次的序列号。

产品保证

- 1. 该产品的保修期为12个月。
- 2. 用户必须按照本手册中的安装指导来操作，才能获得厂商提供的产品质量保证服务。

以下任何原因造成的故障不属于我司的保修范围：

- 已超过保修期的；
- 不能提供产品出厂编号的；
- 由于在异常条件或环境中运行，或者用非本使用说明书中指定的不恰当安装方式安装、维护或操作导致的故障；
- 非本设备造成的故障，比如由用户的设备、用户的软件等造成的故障；
- 用户自行更换或拆装产品零部件造成损坏的，或由非授权维修服务商拆修而造成损坏的；
- 诸如火灾、地震、洪水等不可抗力而造成损坏的故障。

Contents

1	Brief introduction	12
2	Safety precautions	12
3	Product Description	13
3.1	Main Components	13
3.2	Operating Conditions	14
3.3	Correct Use	14
4	Introduction of Operation Mode	14
5	Outline Dimensions and Interface Description	14
6	Installation	15
6.1	Installation Position	15
6.1.1	Schematic Diagram of Elevator Top Routing and Filter Screen Maintenance Space	15
6.1.2	Schematic Diagram of Recommended Dimensions For Concealed Air Return Vent, Maintenance Vent and Air Duct	16
6.2	Installation Instructions	17
6.2.1	General Requirements	17
6.3	Installation and Maintenance	17
6.3.1	Mechanical Installation	17
6.3.2	Electrical Installation	18
6.3.3	Maintenance of Filter Screen	18
6.3.4	Maintenance of Plasma Module	19
6.4	Common Faults and Troubleshooting	20
7	Electrical Schematic Diagram	20
8	Bar Code Description	21
9	Product Assurance	21

Brief introduction

This manual can only be used to guide the installation and operation of the air purifier. The manual contains the functional description of the unit and the operation method of regular maintenance.

Safety precautions

In order to use the equipment correctly, the following safety precautions should be strictly observed:

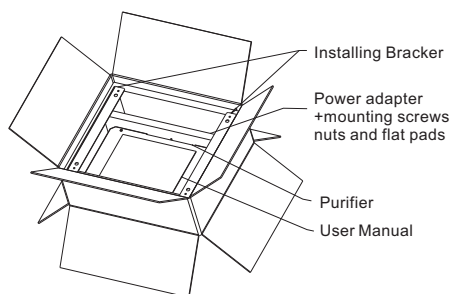
- ⚠ Assembly, installation and maintenance can only be carried out by specially trained professionals.
- ⚠ Do not block the air inlet or outlet of internal or external air purifiers.
- ⚠ Only original spare parts and accessories can be used.
- ⚠ Do not make any changes to the air purifier described in the manual.
- ⚠ The connection between the power adapter and the purifier should be firm to prevent poor contact from damaging the purifier.
- ⚠ Electrical connections and any maintenance can only be carried out by authorized professionals.
- ⚠ 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 is only to be used with the unit provided
- ⚠ If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.

Product description

Air purifier is a kind of purifying disinfection products developed for small space such as elevators and places where people flow. It adopts plasma sterilization and purification technology. This product is small in size and ultra-thin in design, and is installed in the compartment of the elevator or on the top of the elevator. At the same time, the design noise is low, and the air volume meets the purification and disinfection conditions of the elevator, which can ensure the rapid purification and disinfection of polluted air in the elevator.

Ion groups released by the plasma module into the air contact with microorganisms such as bacteria and molds on the surface of objects and in the air, and because the ions themselves carry redundant electrons, their molecular protein structures will be destroyed. At the same time, hydrogen and oxygen radicals will be generated in the air, which can change the structure of the cell membrane or cell wall of microorganisms (the polarity of protein is reversed) or transfer energy, thus killing microorganisms such as bacteria and viruses.

3.1 Main components




Packing List			
No.	Name	Unit	Quantity
1	Purifier	SET	1
2	User Manual	PCS	1
3	Power adapter	SET	1
4	Installing bracket	PCS	2
5	Install screws, nuts and flat pads	SET	1



3.2 Operating conditions

Adapter input voltage	AC 100~240V, 50/60Hz
Adapter output voltage	DC 12V
Rated power	4W
Operating temperature range	-20~55°C

 Note: Please read carefully the parameters on the nameplate of the purifier, and refer to the nameplate name for actual technical parameters.

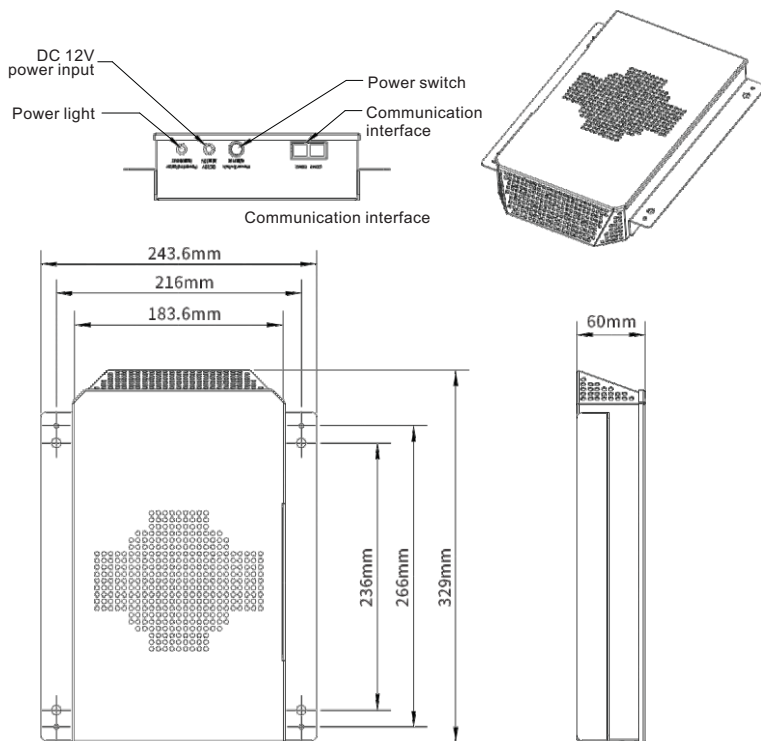
3.3 Correct use

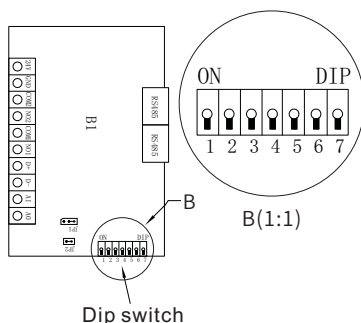
The air purifier is developed and designed according to the existing technology and recognized technical safety rules. If used improperly, it may threaten life and limb, or cause property loss. Please install and use this product in strict accordance with the user manual. The manufacturer is not responsible for any damage caused by incorrect use or assembly, installation and use, and all risks are borne by the user.

Introduction of Operation Mode

Press the purifier power switch button, turn on the fan and plasma module with a delay of about 1S, and the equipment will enter the disinfection and sterilization mode; turn off the power switch and turn off the purifier.

Outline Dimensions and Interface Description





Power input: DC 12V

Communication interface: RS485 communication

Power switch: Turn on or off the power of the product

Power indicator: Green is displayed when the product runs normally, and no light is on when the product fails or loses power.

DIP switch: The control panel is located inside the product, and the outer cover needs to be opened; When the fan speed is adjusted, the DIP switch 1 remains unchanged upward, and the 5 up is the first gear upward; 6 up is the second gear up; At the same time, 5 and 6 both up is the third gear, as shown in the following table:

Dip Gear	1	2	3	4	5	6	7
1	ON				ON		
2	ON					ON	
3	ON				ON	ON	

Installation

6.1 Installation Position

6.1.1 Schematic Diagram of Elevator Top Routing and Filter Screen Maintenance Space

When choosing the installation place, please observe the following regulations:

- Please reserve the routing and operation space at the top of the elevator, and it is recommended that the diameter of the wire passing hole should not be less than 20mm; See fig. 6.11. For convenience of maintenance, the side space of the filter screen should be at least 350mm, and the exposed and concealed installation is shown in Figures 6.12 and 6.13.
- The location is recommended to be free of oil stains and dust.
- If the air purifier is installed in the existing elevator, it is recommended to install it on the top of the elevator; It is suggested that the newly developed elevator car should be designed in the car compartment in a concealed way.
- The ambient temperature inside the elevator needs to be within the range allowed by the equipment.
- The power supply specifications specified on the equipment nameplate must be guaranteed.

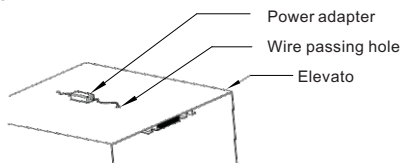


Figure 6.11 Schematic diagram of top routing of exposed and concealed elevator

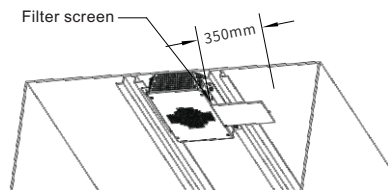


Figure 6.12 Schematic diagram of installation and maintenance space for concealed elevator

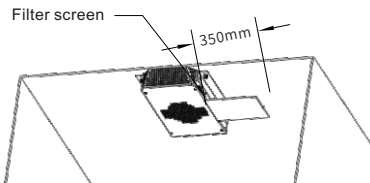


Figure 6.13 Schematic diagram of surface installation maintenance space for exposed elevator

6.1.2 Schematic Diagram of Elevator Top Routing and Filter Screen Maintenance Space

(1) Suggested minimum dimensions of air supply outlet, air return outlet and maintenance port, as shown in Figure 6.14;

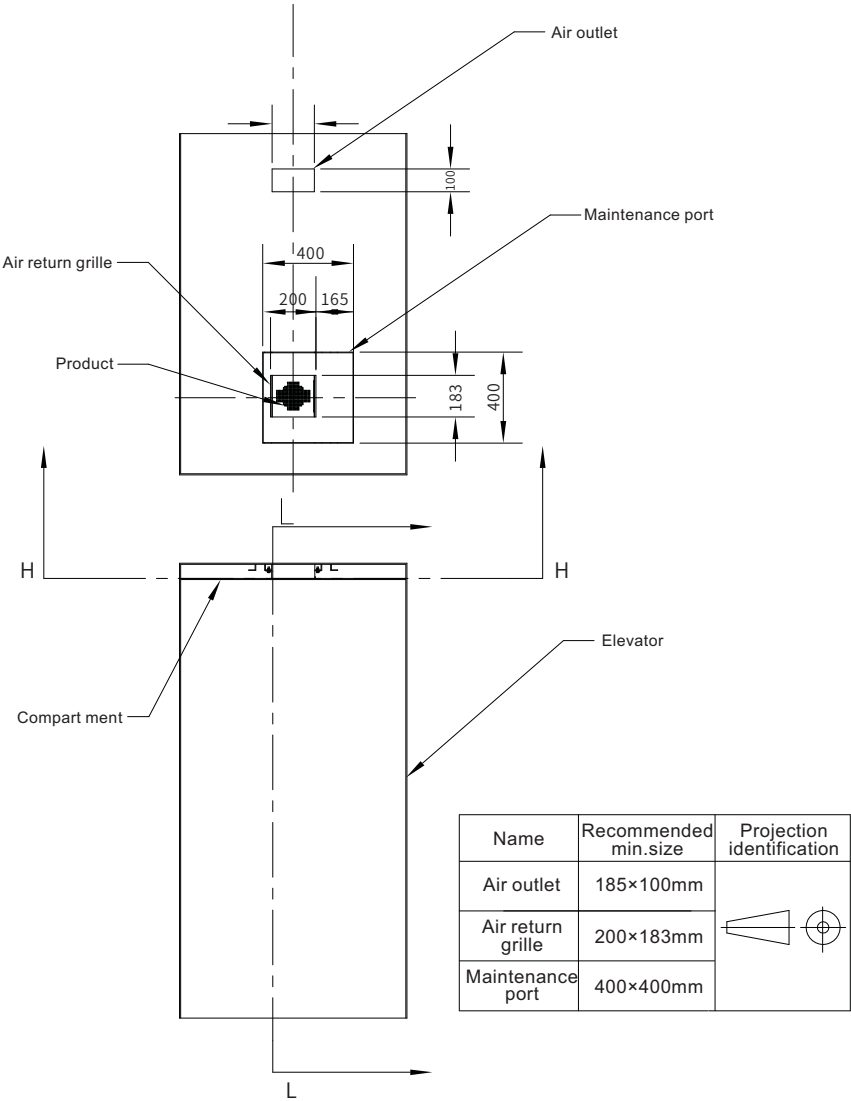


Figure 6.14 Schematic diagram of min. dimensions of air return port and maintenance port

(2) The recommended min. size of air duct is shown in Figure 6.15.

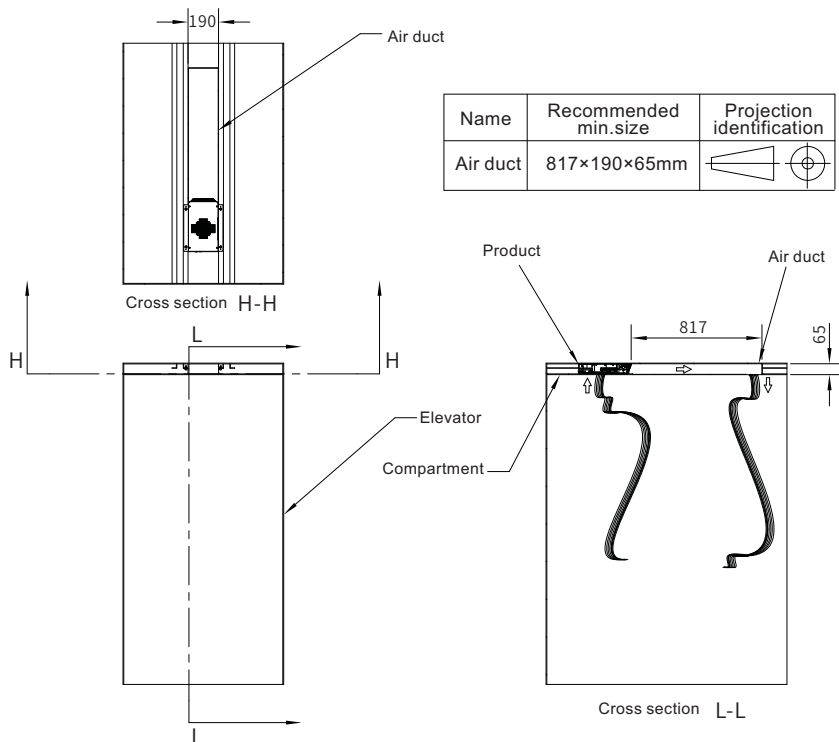


Figure 6.15 Schematic diagram of recommended min. size of air duct

6.2 Installation Instructions

6.2.1 General Requirements

- Before and during unpacking, carefully check the package for signs of damage. Any package damage may be the cause of subsequent functional failure.
- After unpacking, please check the contents of the box to confirm that the products and accessories are complete.
- In order to protect the environment, we suggest recycling the packaging cartons.

6.3 Installation and Maintenance

6.3.1 Mechanical Installation

Before installing the purifier, please check the accessory package and install it according to the following steps:

Take out the four M5 countersunk screws and the mounting bracket of the accessories in the carton, and fix the mounting bracket on the product with screws, as shown in Figure 6.31

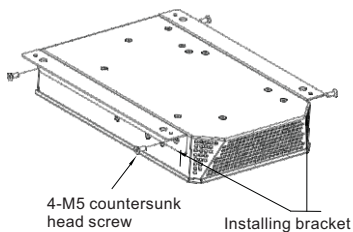


Figure 6.31 Schematic diagram of exposed mounting bracket

(2) Concealed in the compartment of the elevator, according to the opening of the mounting bracket, take out four M6 combination screws, four M6 flat pads and four M6 nuts in the accessory bag, and fix them on the corresponding holes of the product; Figure 6.32;

Open-mounted on the top of the elevator and tap according to the opening of the mounting bracket. Take out four M6 combination screws in the accessory bag and fix them on the holes, as shown in Figure 6.33.

(3) Screw the screws and nuts on the purifier mounting bracket with a hexagonal wrench in a concealed way, as shown in Figure 6.34;

In the open installation mode, tighten the screws on the purifier mounting bracket with a Phillips screwdriver, as shown in Figure 6.35.

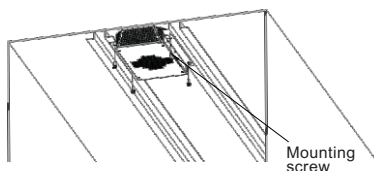


Figure 6.32 Schematic diagram of concealed mounting fixing screws



Figure 6.33 Schematic diagram of surface mounting fixing screws

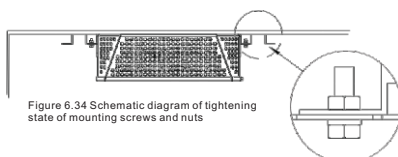


Figure 6.34 Schematic diagram of tightening state of mounting screws and nuts

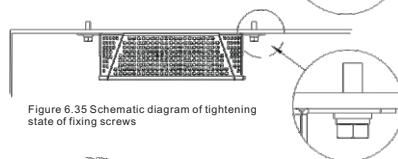


Figure 6.35 Schematic diagram of tightening state of fixing screws

6.3.2 Electrical installation

Take out the power adapter in the accessory bag, connect the purifier, and ensure the fixed cable is reliable, as shown in Figure 6.36.

⚠ Note:

Excessive input voltage of adapter may cause product damage. Please turn on the power supply according to the voltage requirements marked on the nameplate;

In order to avoid any destructive influence, connect the purifier with a grounded triangular plug.

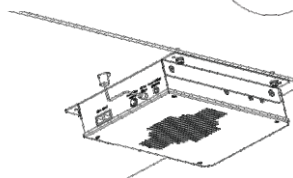


Figure 6.36 Wiring diagram of power adapter

6.3.3 Maintenance of Filter Screen

The air purifier is equipped with primary filter screen. The filter screen needs regular cleaning and maintenance. According to the actual situation on site, it is recommended to clean it once every three months.

Please refer to the following steps to maintain the filter screen:

(1) Withdraw the filter screen from the filter screen side of the purifier, as shown in Figure 6.37;

Reverse the above steps, and install the cleaned and dried filter screen back into the purifier.

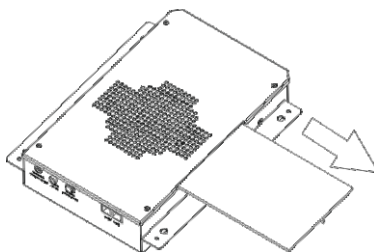


Figure 6.37 Schematic diagram of filter maintenance

6.3.4 Maintenance of Plasma Module

After long-term use, a small amount of dust will accumulate on the surface of the plasma module, so it is necessary to clean it in time. It is recommended to use an air gun once a year to blow off the dust on the surface to ensure the disinfection and sterilization effect. When cleaning, please follow the following steps for maintenance:

- (1) Please confirm that the power supply has been cut off before maintenance;
- (2) Take out the four screws on the front of the purifier, as shown in Figure 6.38;
- (3) Take out the outer cover to expose the plasma module, as shown in Figure 6.39.
- (4) Loosen some threads of the screws on the cover plate and push them to one side, as shown in Figure 6.40.
- (5) Take out the cover plate and plasma module upwards in turn, as shown in Figure 6.41.
- (6) After cleaning the plasma module with an air gun, reverse the above steps to complete the installation.

⚠ Note:

The plasma module has a built-in control panel, so do not use water for cleaning.

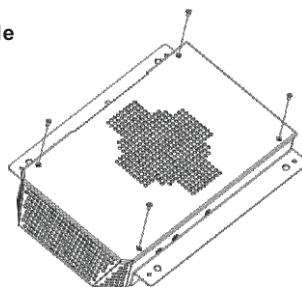


Figure 6.38 Schematic diagram of plasma module maintenance step 1

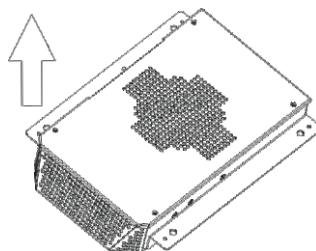


Figure 6.39 Schematic diagram of plasma module maintenance step 2

Loosen the screw and screw out part of the thread upwards

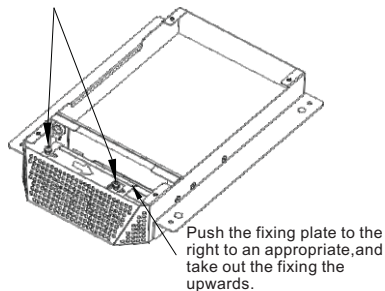


Figure 6.40 Schematic diagram of plasma module maintenance step 3

Take out the cover plate and the plasma module inturn

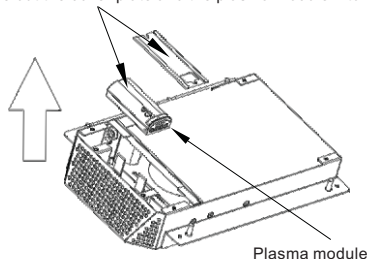
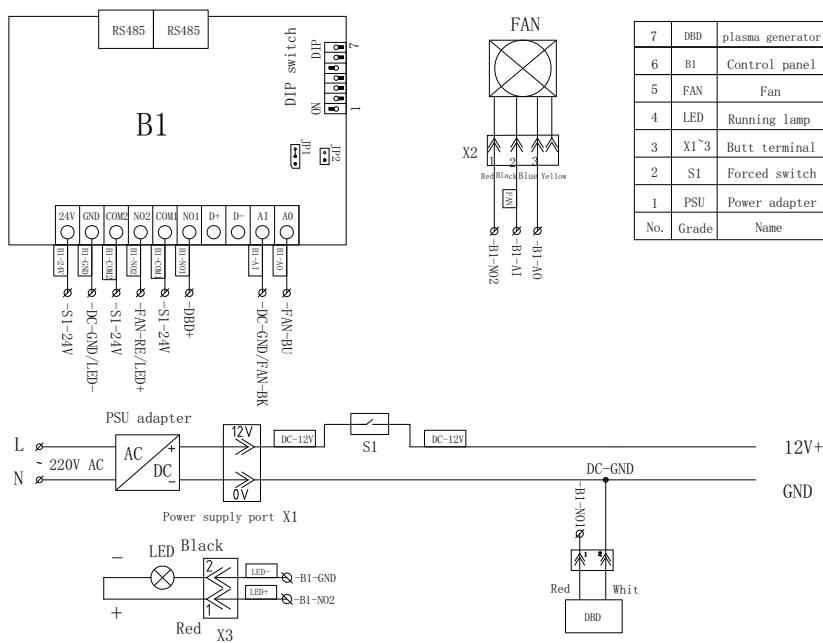


Figure 6.41 Schematic diagram of plasma module maintenance step 4

6.4 Common Faults and Troubleshooting

Phenomenon	Possible causes	Troubleshooting
The whole machine does not run	Loose power supply	Check the power supply for good contact
The air volume is weak	Dirty blockage of filter screen	Take out the filter screen and clean it
	Fan damaged	Contact after-sales maintenance personnel to replace the fan
Running indicator goes off	Loose power supply	Check whether the power supply is loose
	The indicator lamp is damaged	Contact after-sales maintenance personnel for replacement
Fan does not run	Fan damaged	Contact after-sales maintenance personnel to replace the fan

Electrical Schematic Diagram



Bar code description

The corresponding production date and serial number on the bar code are as follows:



The first 13 digits (M019058000100) represent: manufacturer definition.

The 14th to 18th digits (20501) represent: the production date is May 1, 2020 (A/B/C: October/November/December).

The last 4 digits (0001) represent: the serial number of this batch.

Product warranty

1. The warranty period of this product is 12 months.
2. Users must follow the installation instructions in this manual before they can obtain the product warranty service provided by the manufacturer.

Faults caused by any of the following reasons are not covered by our warranty:

- The warranty period has expired;
- The factory number of the product can not be provide.
- Faults caused by operation under abnormal conditions,environments, nstallation, maintenance or operation by improper installation methods other than those specified in this user manual;
- Faults not caused by this equipment, eg. by user's equipment and user's software;
- Damage caused by the user's own replacement or disassembly of spare parts, or damage caused by unauthorized maintenance service;
- Fault caused by force majeure such as fire, earthquake and flood.



扫一扫，获取电子档用户手册

Scan to get the electronic file user manual

声明：

版权所有，禁止任何未经授权的拷贝和抄袭。

厂家对产品持续升级进行的资料更改，恕不另行通知

Declaration:

All rights reserved. Unauthorized copying and plagiarism are forbidden.

The manufacturer's information for continuous product upgrading is subject to change without notice.