Bidirectional flow central fresh air dehumidifier

MERENFORT DTF 38L/350-ARI-2.0
MERENFORT DTF 70L/450-ARI-2.0

user's manual

BLAUBERG

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Safety

Before installing and operating the equipment, please carefully read the user manual. Strictly adhere to the usage requirements, relevant national safety guidelines and regulations, as well as electrical technical specifications and other standards specified in the user manual during installation and operation of the equipment.

Warnings provided in the user manual contain important information regarding personal safety and must be paid attention to. Failure to comply with the operating procedures or safety warnings in the user manual may result in personal injury or equipment damage. To ensure the service life of the unit, please read the user manual carefully before using the equipment.

Illustration Example

⚠ **Warning!**   ⊗ **Prohibited!**

Precautions for equipment installation and operation

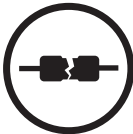- Be sure to disconnect the power during installation and operation.

- Handle with care when opening the package.

- Keep the power cord away from the heating device.

- Follow the relevant installation specifications when installing the equipment.

- Do not connect the machine to the power supply with damaged equipment or power cords.

- Do not operate this equipment outside the operating temperature range specified in the user manual.
- Do not operate this equipment in flammable or explosive environments.

- Do not touch the control unit with wet hands.
- Do not perform installation or maintenance operations with wet hands.

- Do not rinse the equipment directly with water.
- Protect the circuitry to prevent water ingress.

- Children are prohibited from operating this equipment.

- Before conducting any maintenance operations, disconnect the equipment from the power source.

- Do not store flammable or explosive materials around the equipment.

- If the equipment experiences abnormal noise, odor, or smoke, immediately disconnect the power supply and contact the dealer.

- Do not store flammable or explosive materials around the equipment.

- Do not direct the airflow generated by the equipment towards open flames or sources of fire.

- Do not open the panel while the equipment is running.

- To ensure the long-term stable operation of the equipment, regularly inspect the safety of its installation.

- Do not open the panel while the equipment is running.

- This equipment is intended for use only in specific scenarios.

Introduction

This user manual includes: technical specifications, operation and installation guides, safety regulations for correct operation, as well as safety precautions and notes.

Before installation and use, carefully read and understand the user manual, especially the safety precautions.

Please keep this user manual properly during your use of this product.

Overview

The bidirectional flow central fresh air dehumidifier is a high-efficiency and energy-saving device designed for dehumidification and purification ventilation functions in homes and public places.

The normal operating conditions of the equipment are:indoor temperature 1°C to 40°C, relative humidity not exceeding 80%;outdoor temperature -15°C to 45°C, relative humidity not exceeding 80%.

Safety Regulations

All components inside the equipment are connected to the power supply, so maintenance must be carried out with the power disconnected.

The power supply line is recommended to use a wire diameter greater than or equal to the power cord specified in GB/T5023.5 (60227IEC(RVV) (3x2.5mm)).

Installation and maintenance operations must be carried out by professionally qualified personnel.

This product must be grounded, otherwise there is a risk of electric shock in case of abnormality or leakage.

Before connecting to the power supply, ensure that the impeller of the motor and the casing are not damaged, and there are no foreign objects inside the sleeve.

Unauthorized modifications or misuse of the equipment are not allowed.

The conveyed air must not contain any dust or other solid impurities, sticky substances, or fibrous materials.

The equipment must not operate in conditions that are flammable or explosive.

Please refer to the attached safety manual for specific safety regulations.

⚠ Warning!

This device is a new air dehumidifier controlled by a microcomputer,and the sensors are precision components. Using it in environments with strong corrosive gases or heavy dust may lead to equipment failure.

Installation of this device should be performed by individuals with relevant professional knowledge.

Before using this device, please read and understand this manual carefully. Children should use this device under the supervision of guardians.

Design

This bidirectional flow central fresh air dehumidifier is capable of intelligent control, with independent control of fresh air and dehumidification. It displays intuitive air quality parameters such as humidity. The product features an aesthetic appearance,superior performance, simple operation, and convenience. It can meet the requirements of daily ventilation and dehumidification for different households, and is widely used in research, industry,medical and health care, instrumentation, commodity storage,underground engineering, computer rooms, data rooms, archives,warehouses, bathrooms, and other high humidity environments to prevent damage to instruments, computers, telecommunications equipment, medicines, and documents due to dampness, rust, and mildew.

With a compact design, it is easy for construction and installation. The side inspection design facilitates later maintenance and inspection.

Transportation and Storage

Transportation of Equipment: Any vehicle can be used for transportation provided that the equipment is protected from climate and mechanical damage.

Handling and Transport: Cranes can be used for handling, and loading and unloading should be carried out in accordance with the transportation and handling operations suitable for the type of goods of this product. This product contains a refrigeration system, so attention should be paid to the direction of handling.

Storage of Equipment should be in its original packaging and stored in a dry and ventilated environment. Since this product contains a refrigeration system, attention should be paid to the orientation during storage.

This product should be stored separately from corrosive and insulating materials:

It should be stored in an environment with stable temperature and humidity, with the ambient temperature ranging from 1°C to 40°C.

After the equipment is moved, it should be allowed to stand for more than two hours before connecting to the power supply for operation.

Warning!

After the end of the equipment's service life, it must be recycled separately and cannot be disposed of with unclassified waste.

Some materials of the equipment can be recycled, and some should not be treated as household waste.

According to the effective regulations of the applicable country,the product must be disposed of promptly once it reaches the end of its service life.

⚠ Warning!

Do not use any method to accelerate the defrosting process or clean the frosted parts unless specifically recommended by our company.

The equipment should be stored in a room without open flames (such as ignited gas appliances) and ignition sources (such as operating electric heaters).

Working Principle

This product is a bidirectional flow central fresh air dehumidifier, capable of functions such as fresh air ventilation, isothermal dehumidification with fresh air, isothermal dehumidification with internal circulation, and heat recovery.

Heat recovery process: Taking the heating condition in winter as an example, warm indoor air passes through the return air pre-filter and then flows through the heat exchanger core before being discharged outside. Cold outdoor air passes through the fresh air filter and then flows through the heat exchanger core, and is then introduced into the indoor space by the supply air fan. When the heat in the return air flows through the heat exchanger core, it is stored there. When the supply air passes through the heat exchanger core, the heat is transferred to the supply air stream. The supply air and return air streams are completely separated when passing through the heat exchanger core, maximizing heat recovery and greatly reducing the operating costs of air conditioning or heaters during winter. Isothermal dehumidification: Special condensation design combined with the heat exchanger core can avoid the problem of increased air temperature in traditional dehumidifiers, achieving isothermal dehumidification.

Carton Packing List

Bidirectional Flow Central Fresh Air Dehumidifier ── 1 unit
User Manual (including Warranty Certificate) ── 1 copy
Installation Guide ── 1 copy
Safety Manual ── 1 copy
Installation Components ── 1 set
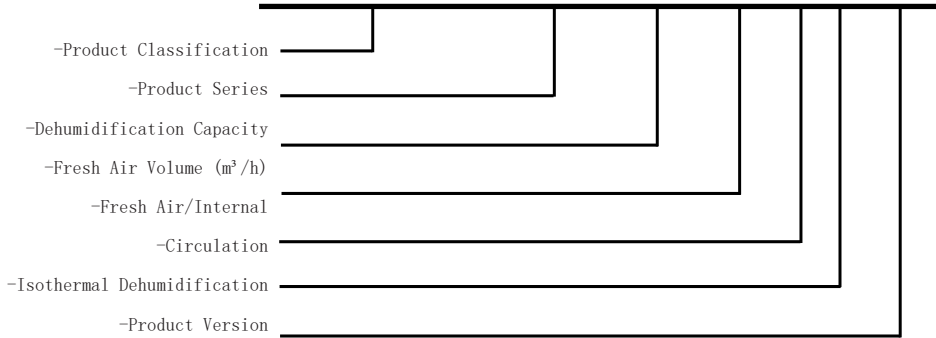Packaging ── 1 piece
Controller and Cables ── 1 set

警告！

⚠ 检查货物有无运输损坏，检查合格后方可交付 。

Naming Rules
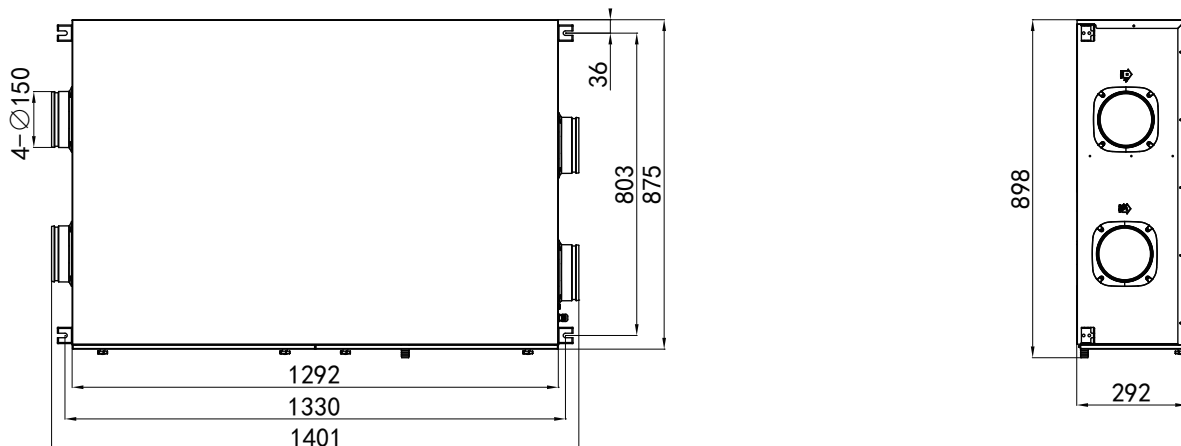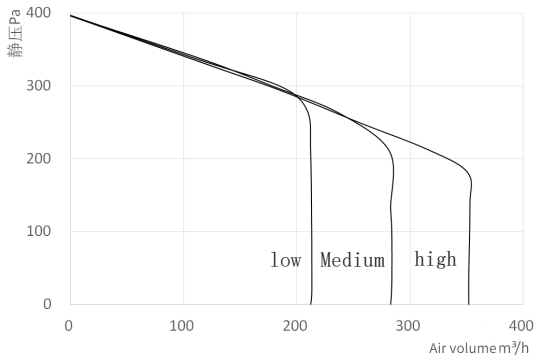
Product Name Example:: MERENFORT DTF XL/XXX-XXX-X.X

-Product Classification
-Product Series
-Dehumidification Capacity
-Fresh Air Volume (m³/h)
-Fresh Air/Internal
-Circulation
-Isothermal Dehumidification
-Product Version

Technical Parameters

Ｉ？"？·†艺		MERENFORT DTF 38L/350-ARI-2.0	MERENFORT DTF 70L/450-ARI-2.0
Rated Voltage (V)		220~	220~
Rated Frequency (Hz)		50	50
Rated Input Power (W)		390	840
Dehumidification Capacity	30℃/80%(L/D)	38	70
	27℃/60%(L/D)	19	38
Total Heat Exchange Efficiency	Cooling Recovery	55%	55%
	Heating Recovery	60%	60%
Rated Air Volume (m³/h)	Fresh Air	350/280/210	450/360/300
	Exhaust Air	300/230/160	400/310/250
Maximum Fresh Air Intake (m³/h)		0-350	0-450
External Static Pressure (Pa)	Fresh Air	150	150
	Exhaust Air	150	150
Noise Level[dB(A)]		34	41
Applicable Area (㎡)		50-75	75-140
Filter Grade	Fresh Air	Silver ions+HEPA	Silver ions+HEPA
	Return Air	Silver ions+G3	Silver ions+G3
Refrigerant/Charge Quantity		R290/200g	R290/300g
Dehumidification Working Temperature (℃)		5-38	5-38
Weight (kg)		92	100
Flange Size (mm)		150×4	150×4
Dimensions (Main Body) (mm)		1290×875×292	1290×875×292
Dimensions (Maximum Size) (mm)		1401×898×292	1401×898×292

1.The input power, dehumidification capacity, noise level, air volume, and other data are all tested under dehumidification mode.

2.The air volume, input power, dehumidification capacity, and other data are measured when the machine is connected to 1m air ducts at the air inlet and outlet of the unit, with a static pressure of 0Pa.

3.The noise level is the A-weighted average sound pressure level, which is the center value of the laboratory test results, with a tolerance range of ±3dB.

4.The noise level is measured in a semi-anechoic chamber, 1.5m below the product (with a 1m silencing duct connected to the air outlet of the unit and a 1m air duct connected to the air inlet).

5.The dehumidification working temperature refers to the temperature range at which the compressor can start running when the temperature of the air entering the dehumidifier is within this range. This does not affect the operation of the fan.
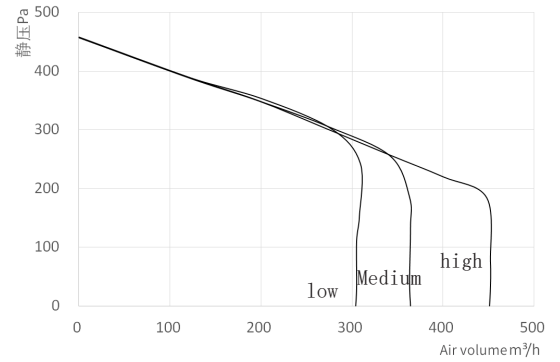
DTF Series Exterior Diagram

MERENFORT DTF 38L/350-ARI-2.0

静压 Pa
400
300
200
100
0

low Medium high

0   100   200   300   400
Air volume m³/h

MERENFORT DTF 70L/450-ARI-2.0

静压 Pa
500
400
300
200
100
0

low Medium high

0   100   200   300   400   500
Air volume m³/h

Installation

⚠️ **Warning!**
The equipment must be installed on a stable concrete slab.
The equipment must be fixed using bolts. Before starting the installation, check whether the installation structure has sufficient load capacity to bear the weight of the equipment.
The power must be disconnected and the switch must be in the off position during equipment installation.

Prohibitions:
It is prohibited to operate the equipment in high-temperature, highly corrosive, or flammable environments.
It is prohibited to install the equipment and air supply outlets in spaces with high humidity or other areas prone to producing high-humidity steam, such as bathrooms.
It is prohibited to use the equipment in dusty environments.

During equipment installation, it is necessary to reserve sufficient space for equipment maintenance. The installation work requires at least two people to prevent injuries caused by product falling.

Before installing the equipment, it is essential to ensure that the installation location and hanging bars can withstand five times the weight of the equipment itself. Otherwise, reinforcement measures should be taken.

The equipment must be fixed using M10 threaded hanging bars and expansion screws. Long hanging bars should be used to reduce resonance between the equipment and the ceiling. Refer to the dimension diagram for the installation spacing of the hanging bars.

The equipment should be installed in a position convenient for connecting with the air ducts. After installation, ensure that the flange of the air outlet does not deform.

During equipment installation, the drainage pipe must be connected to the drainage system.

The layout of the pipes should avoid excessively long ducts, too many bends, and changes in diameter, as this can affect the airflow of the equipment.

The installed air ducts must not deform.

After equipment installation, the load of the air ducts must not rest on the unit to prevent the unit from falling due to excessive load.

After the unit is installed, the entire unit needs to undergo a level check to ensure that the main unit is installed horizontally. The drainage outlet should be slightly lower than the horizontal plane of the entire unit and equipped with a water seal.

Ensure that the power cord is properly installed to prevent fires.
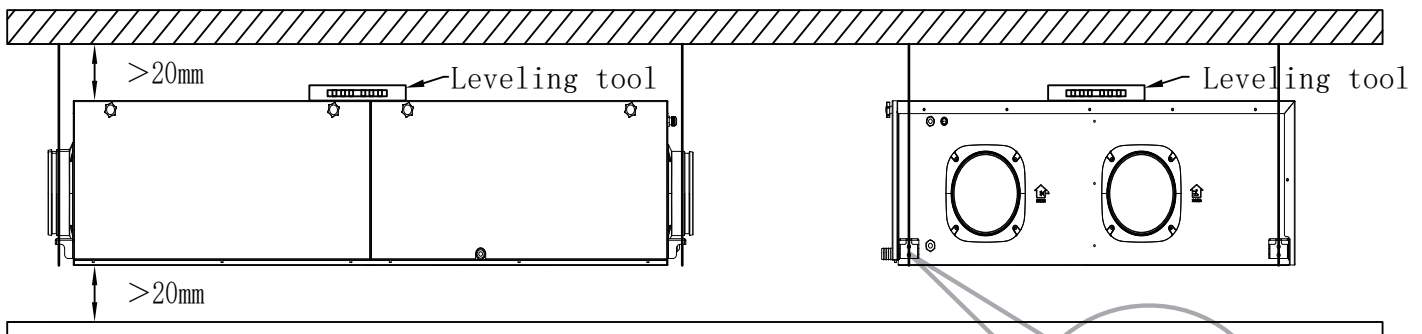
A maintenance access opening must be provided, with the size and location according to the maintenance access opening diagram.

During installation and maintenance, ensure that the position of the power cord is lower than the outlet of the junction box to prevent water from flowing back into the junction box along the power cord.

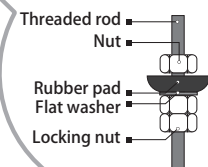Before moving the product, use the forced drainage function to drain the water to prevent overflow and other accidents.

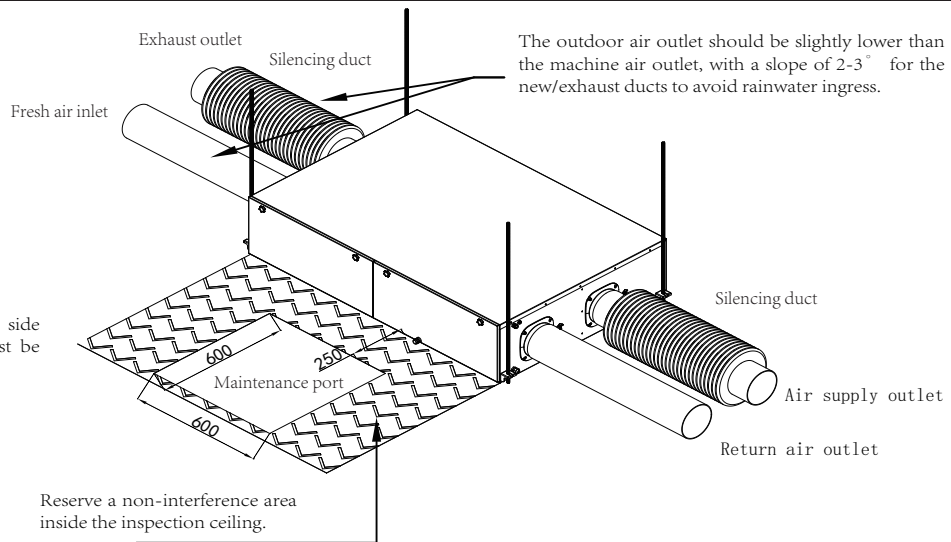The area of the installation site must not be less than 16 square meters.

The installation height of the equipment must not be less than 2.3 meters.

>20mm

Leveling tool

>20mm

Leveling tool

Threaded rod
Nut
Rubber pad
Flat washer
Locking nut

Lifting installation diagram

Exhaust outlet

Silencing duct

Fresh air inlet

The outdoor air outlet should be slightly lower than the machine air outlet, with a slope of 2-3° for the new/exhaust ducts to avoid rainwater ingress.

Silencing duct

A square access panel with a side length of at least 600mm must be provided.

600

250

Maintenance port

600

Air supply outlet

Return air outlet

Reserve a non-interference area inside the inspection ceiling.

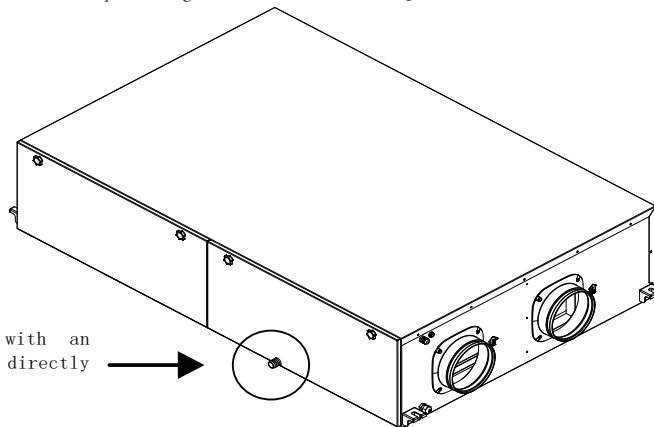# Access panel diagram

Condensate Drainage

The equipment is equipped with an automatic drainage pump, which can actively discharge condensate water from the machine. A trap should be installed at the starting point of the external drainage pipe. The length of the drainage pipe should be minimized, and when setting up the drainage pipe, a slope of 2%-3% should be maintained to facilitate water drainage and prevent backflow. The head of the automatic drainage pump is 50 centimeters, so the height of the highest point of the drainage pipe relative to the drainage outlet should be less than this height.

The drainage pipe needs to be insulated to prevent condensation in the drainage pipe. The size of the drainage hose is recommended to be equal to or greater than the size of the drainage pipe.
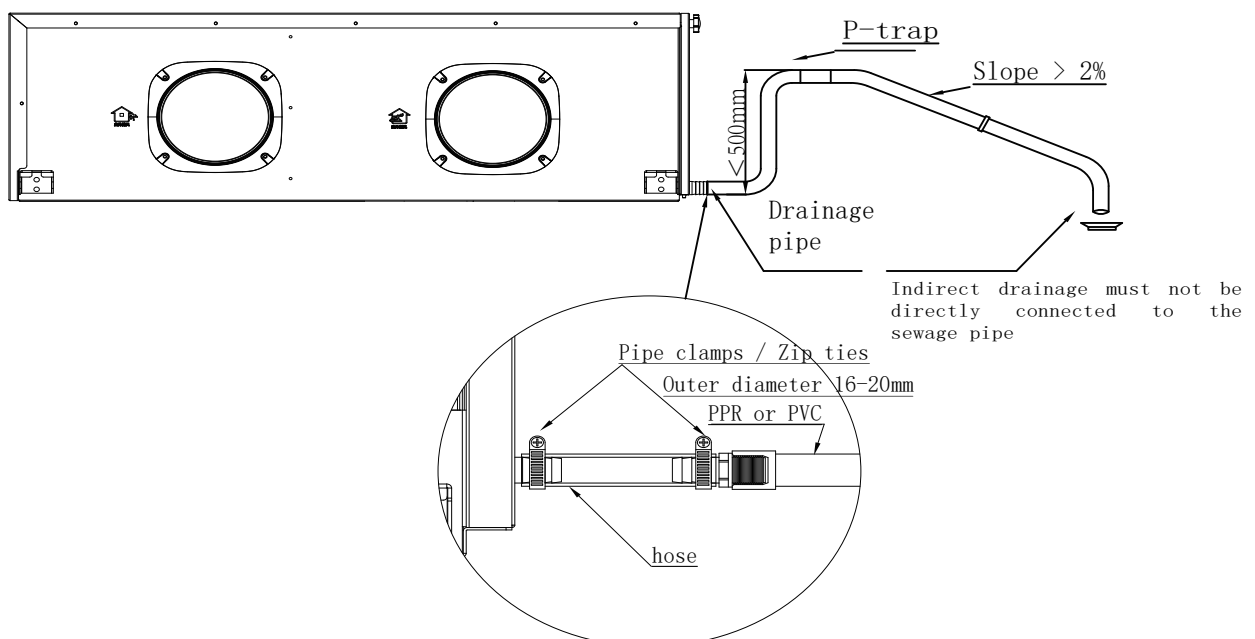
You can purchase standard rigid PVC or PPR pipes for general use locally for the drainage pipe. When connecting, use a drainage hose to connect the PVC/PPR pipe to the machine's drainage outlet, and use clamps or zip ties to secure the connection at both ends. Do not use adhesive to connect the drainage pipe and the drainage hose.

When laying drainage pipes for multiple devices, the position of the common pipe should be lower than each device, requiring the use of thicker pipes. For this purpose, a 100mm diameter pipe is recommended for the equipment's drainage outlet.

The equipment comes standard with an automatic drainage pump, which is directly connected to the drainage pipe.

Automatic drainage pump

P-trap

Slope > 2%

<500mm

Drainage pipe

Indirect drainage must not be directly connected to the sewage pipe.

Pipe clamps / Zip ties

Outer diameter 16-20mm

PPR or PVC

hose

Condensate Drainage System Installation Diagram

> **Warning!**
>
> Before connecting the circuit, please carefully read the user manual. Professional electricians are required to connect the wires. Please follow the electrical wiring diagram for correct connections. Unauthorized modification of internal wiring is not covered by the warranty, and any resulting equipment issues are not within the warranty scope.
> The equipment power supply should be connected to AC 220V mains.
> Please strictly adhere to relevant wiring standards (GB50311-2016). A circuit breaker must be installed in the household wiring system.
> Connect the power supply and equipment together through the circuit breaker (GB50054-2011).
> The tripping current of the circuit breaker must not be lower than the rated current. It is recommended to use a 16A independent circuit breaker. Install the circuit breaker to ensure timely protection of the equipment.
> If the power cord is damaged, for safety reasons, it must be replaced by a professional from the manufacturer, their maintenance department, or a similar department.

Disconnect the power supply of the equipment and then proceed with other operations after disconnecting the circuit breaker.
Before performing any operation, measures must be taken to prevent the automatic circuit breaker from restoring.
Connect all power and control according to the markings on the terminal blocks.
The wiring diagram is located on the board inside the junction box.
The terminal blocks and the wiring diagram correspond.
Connect the power supply junction box to the circuit breaker through the electrical protector to increase the level of electrical protection.
During installation, a full-pole disconnect device with a minimum contact gap of 3mm must be installed in the power supply line.
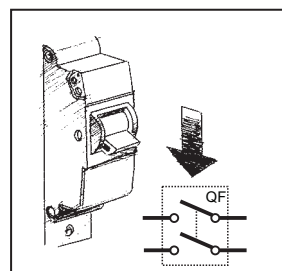
Electrical schematic diagram
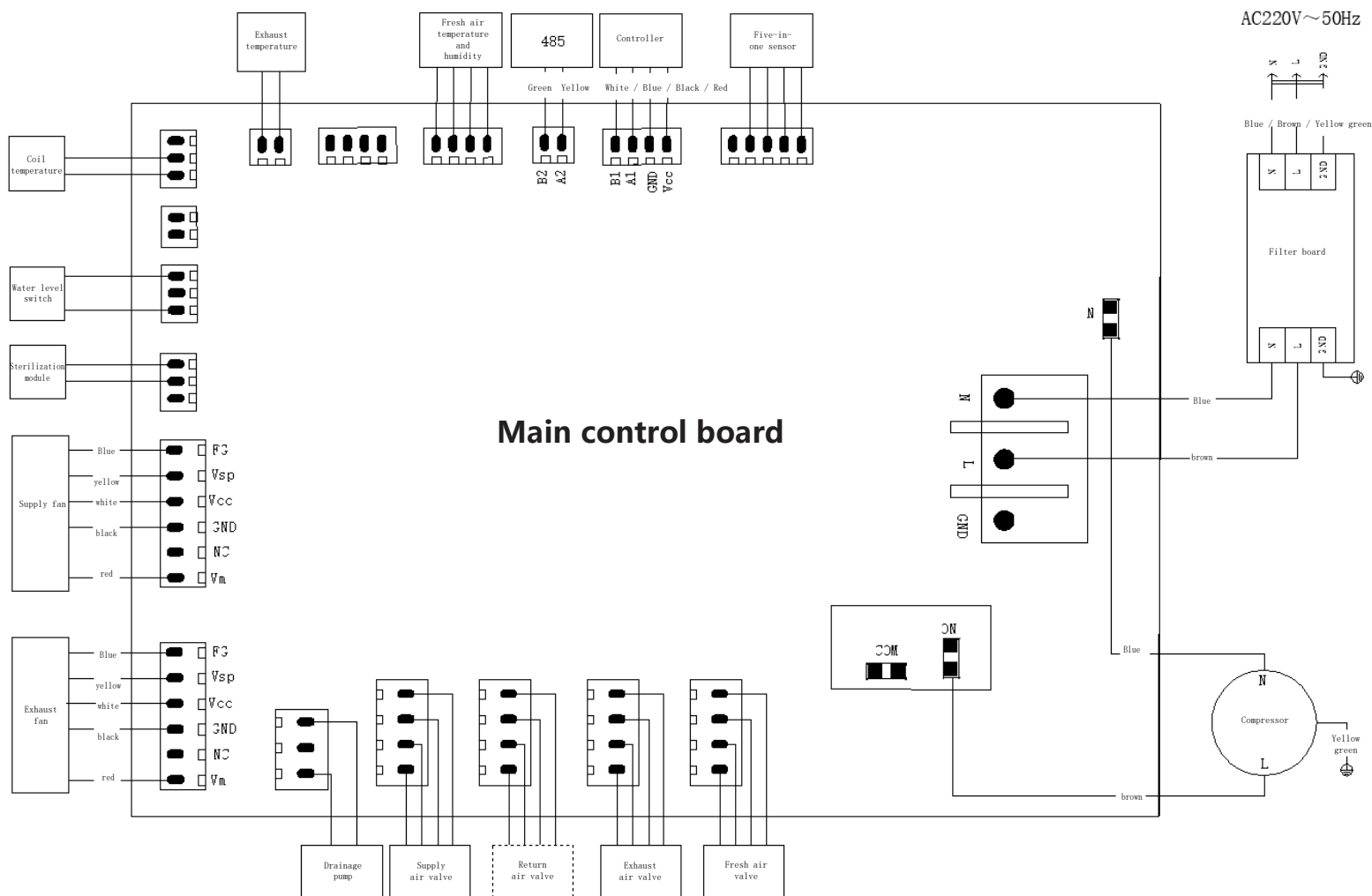
RS485 Configuration Method

RS485 Connection: Open the controller wiring box and connect the 485 interface.
RS485 Configuration: Enter the controller settings interface, and directly configure the communication mode: RS485 ModBus RTU.
Baud Rate: 9600bps
Start Bit: 1 bit
Data Bits: 8 bits
Parity: None
Stop Bit: 1 bit

Read multiple registers
Read holding registers (read 14 data at once)

Settings Interface

RS485 Settings Interface

Device address	Function code	Register address	Number of registers	CRC16
1 bytes	1 bytes	2 bytes	2 bytes	2 bytes
01——200	0x03	0x00 0x00	0x00 0x0E	CRC high byte / CRC low byte

Device response code Device address	Function code	Number of registers	Data	CRC16
01——200	0x03	0x1C	28 bytes	CRC high byte / CRC low byte

Data Parsing：

00 00（00 XL）：Address setting. 00 XX (XX = hexadecimal data new address) Range: 1-200.

00 01（00 XL）：0001 Power on, 0000 Power off.

00 02（00 XL）：01 Intelligent mode, 02 Fresh air dehumidification mode, 03 Strong dehumidification mode, 04 Fresh air ventilation mode, 05 Quick clean mode.

00 04（00 XL）：00 Dehumidification function off; 01 Dehumidification function on.

00 05（00 XL）：Year intelligent mode 01 Low speed; 02 Medium speed; 03 High speed; 04 Auto.
For Fresh air dehumidification mode 01 Low speed; 02 Medium speed; 03 High speed;04 Auto.

00 06（00 XL）：Strong dehumidification mode 01 Low speed; 02 Medium speed; 03 High speed; 04 Auto.

00 07（00 XL）：For Fresh air ventilation mode 01 Low speed; 02 Medium speed; 03 High speed; 04 Auto.

00 08（00 XL）：Quick clean mode 01 Low speed; 02 Medium speed; 03 High speed; 04 Auto.

00 09（00 XX）：Invalid parameter.

00 0A（00 XL））：Set humidity in hexadecimal.

00 0B（00 XL）：Filter replacement setting time in hexadecimal.

00 0C（00 XX）：Invalid parameter.

Read holding registers (read 21 data at once)

Device address	Function code	Register address	Number of registers	CRC16
1 bytes	1 bytes	2 bytes	2 bytes	2 bytes
01——200Device response code	0x03	0x10 0x00	0x00 0x15	CRC high byte / CRC low byte

Device address	Function code	Number of registers	Data	CRC16
01——200	0x03	0x2A	42 bytes	CRC high byte / CRC low byte

Data Parsing:

10 00 (00 XL): Indoor humidity in hexadecimal.

10 01 (00 XL): Indoor temperature in hexadecimal.

10 02 (XH XL): Indoor CO2 level in hexadecimal.

10 03 (XH XL): Indoor PM2.5 value in hexadecimal.

10 04 (00 XL): Indoor TVOC level (00 = Excellent; 01 = Good; 02 = Good; 03 = Fair).

10 05 (00 XL): Fresh air temperature in hexadecimal.

10 06 (00 XL): Fresh air humidity in hexadecimal.

10 07 (00 XX): Invalid parameter.

10 08 (00 XX): Invalid parameter.

10 09 (00 XL): Coil temperature in hexadecimal.

10 0A (00 XL): Exhaust temperature in hexadecimal.

10 0B (00 XL): 00 Pump off; 01 Pump on.

10 0C (00 XL): 00 Compressor off; 01 Compressor on.

10 0D (00 XL): 00 Defrosting off; 01 Defrosting on.

10 0E (00 XX): Invalid parameter.

10 0F (00 XL): 00 Water level switch OFF; 01 Water level switch ON.

10 10 (00 XX): Invalid parameter.
10 11 (00 XL): 00 Fresh air valve/exhaust air valve closed; 01 Fresh air valve/exhaust air valve open.
10 12 (00 XL): 00 Return air valve/supply air valve closed; 01 Return air valve/supply air valve open.
10 13 (00 XL): Filter replacement reminder (00 Normal; 01 Replace).
10 14 (00 XX): Invalid parameter.

Read holding registers (read 13 data at once)				
Device address 1 bytes	Function code 1 bytes	Register address 2 bytes	Number of registers 2 bytes	CRC16 2 bytes
01——200	0x03	0x20 0x02	0x00 0x0D	CRC high byte / CRC low byte
设备返回码				
设备地址01	Function code	Number of registers	Data	CRC16
——200	0x03	0x1A	26个字节	CRC high byte / CRC low byte

Read single register (e.g., read data from single register address 0x00)

Read holding registers (read 1 data at once)				
Device address 1 bytes	Function code 1 bytes	Register address 2 bytes	Number of registers 2 bytes	CRC16 2 bytes
01——200Device response code	0x03	0x00 0x00	0x00 0x01	CRC high byte / CRC low byte
Device address	Function code	Number of registers	Data	CRC16
01——200	0x03	0x02	2个字节	CRC high byte / CRC low byte

Write a single register
Write Holding Register

Device address 1 bytes	Function code 1 bytes	Register address 2 bytes0x00	Number of registers 2 bytes	CRC16 2 bytes
01——200	0x06	0x00~0X0d	XX XX	CRC high byte / CRC low byte

Device Response Code
Original Command Return

Data Parsing:
00 00 (00 XL): Address setting. 00 XX (XX = hexadecimal data new address) Range:1-200.
00 01 (00 XL): 0001 Power on; 0000 Power off.
00 02 (00 XL): 01 Intelligent mode; 02 Fresh air dehumidification mode; 03 Strong dehumidification mode; 04 Fresh air ventilation mode; 05 Quick clean mode.
00 03 (00 XL): Invalid parameter.
00 04 (00 XL): Intelligent mode: 01 Low speed; 02 Medium speed; 03 High speed; 04 Auto.
00 05 (00 XL): Fresh air dehumidification mode: 01 Low speed; 02 Medium speed; 03 High speed; 04 Auto.
00 06 (00 XL): Strong dehumidification mode: 01 Low speed; 02 Medium speed; 03 High speed; 04 Auto.
00 07 (00 XL): Fresh air ventilation mode: 01 Low speed; 02 Medium speed; 03 High speed; 04 Auto.
00 08 (00 XL): Quick clean mode: 01 Low speed; 02 Medium speed; 03 High speed; 04 Auto.
00 09 (00 XX): Invalid parameter.
00 0A (00 XL): Set humidity in hexadecimal.
00 0B (00 XL): Set filter replacement time in hexadecimal.
00 0C (00 XX): Invalid parameter.

Control Panel

The device comes standard with a wall-mounted integrated control system control panel.
The control panel is connected to the cable using a plug-and-play method, with the cable fixed to the device using screws.
The control panel features a liquid crystal display and touch- sensitive keypad operation:
The controller is installed in a standard 86 base box.
It is recommended that the dimensions inside the junction box be larger than 72x72x45 (mm).
It is recommended that the dimensions inside the junction box be larger than 72 × 72 × 45 (mm).

≥72

≥72
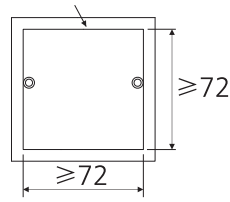
Equipment Control

Icons and buttons：

1. Mode button " ": Press this button to enter the mode selection interface.

2. Fan speed button " ": Press this button to enter the fan speed selection interface.

3. Setting button " ": Press this button to enter the settings interface.

4. Power button " ": Press this button to turn the machine on or off.
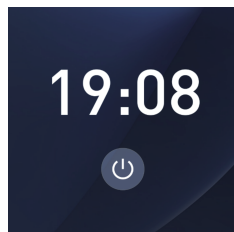
Shutdown Interface

Operating Interface

Mode Selection Interface

Fan Speed Selection Interface

Standby Interface

Settings Interface

Function Description：

The machine has five working modes: Smart Mode / Fresh Air Ventilation Mode /Strong Dehumidification Mode / Fresh Air Dehumidification Mode / Quick Clean Mode.
1. Smart Mode: In Smart Mode, the device will automatically adjust the fan speed and dehumidification capacity based on indoor and outdoor environmental parameters.
2. Fresh Air Ventilation Mode: (1) You can manually control the fan speed. (2) You can also automatically control the fresh air fan speed based on indoor CO_2 and PM2.5 concentrations.
3. Strong Dehumidification Mode: Enhances dehumidification capacity.
4. Fresh Air Dehumidification Mode: Activates both fresh air and dehumidification functions simultaneously.
5. Quick Clean Mode: Automatically controls the return air fan speed based on indoor CO_2 and PM2.5 concentrations.

APP Connection and Usage Instructions：

1.APP Connection and Usage Instructions:
Download and Install the APP Scan the QR code in the bottom right corner to download the APP.
2.Log in to the APP
Follow the prompts to install the APP. If you have already registered,please use your existing account and password to log in. New users need to register first before logging in.
3.Add Device
① Open the dehumidifier controller: "Settings" → "Network Settings" → "Smart Network".
② Add the device in the APP (make sure the network is smooth).
③ If you are unable to complete the network configuration, please check the error prompts in the APP. After correcting the corresponding content, add the device again.

Fault Indication

When the following faults occur, the alarm indicator light on the top right of the controller will illuminate	
Water Full Protection	High Load Protection
Abnormal Cooling System	Environmental Temperature Too Low / High Protection
Five-in-One Sensor Fault	Coil Temperature Sensor Fault
Fresh Air Temperature and Humidity Sensor Fault	Exhaust Temperature Sensor Fault
Filter Replacement	

1. When the above-mentioned faults cannot be resolved and it is confirmed that repair is necessary, please contact the supplier or authorized repair station. Do not dismantle the machine for repair on your own.
2. During operation or when the machine stops, you may hear the sound of refrigerant circulation. This is a normal phenomenon and not a fault.
3. The discharge of hot air from the air outlet is a normal phenomenon.

< 设置

除湿目标设定

滤网复位

故障详情确认

亮度

Press the "Confirm" button on the fault details confirmation page in the controller's settings interface to enter the fault page and view the fault content.

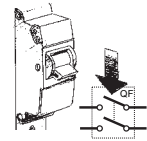## Technical Maintenance

⚠ **Warning!**

Before any maintenance, please switch off the circuit breaker to cut off the power supply.

Take measures to prevent automatic activation of the switch.

The compressor has a delay start protection function, as well as an automatic defrost function.

Maintenance and Care:Before performing maintenance and care, always switch off the power and unplug the power cord from the socket.

1. Air Filter Replacement:

When there is excessive dust on the air filter, the air volume will decrease, and the dehumidification capacity will also decrease. It is necessary to replace the air filter regularly. The controller will remind you when it's time to replace the filter. The equipment comes with a composite filter with silver ion HHEPA on the fresh air side and silver ion + G4 on the return air side. The filter replacement cycle is generally 3 months, but it can be adjusted according to the air conditions in different areas. When replacing, remove the side maintenance panel, take out the filter that needs to be replaced, insert the new filter, and then cover the maintenance panel. Finally, reset the filter in the controller settings.

Note:

a. The filter should not be exposed to direct sunlight or heat to avoid deformation.

b. The filter should be installed before the equipment is turned on.

c. The default reminder time for filter replacement in the controller system is 90 days.

Air Filter Replacement Steps

1. Unscrew the knob of the filter maintenance cover and remove the maintenance door, then take out the filter.

2. Perform a filter reset within the controller's settings menu.

< 设置

除湿目标设定

滤网复位

故障详情确认

亮度

< 滤网复位

0天
更换时间

0天
剩余时间

复位
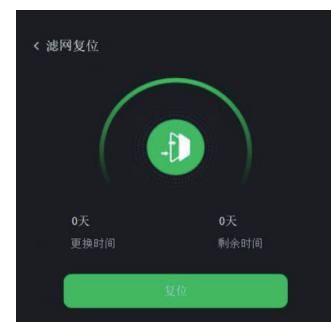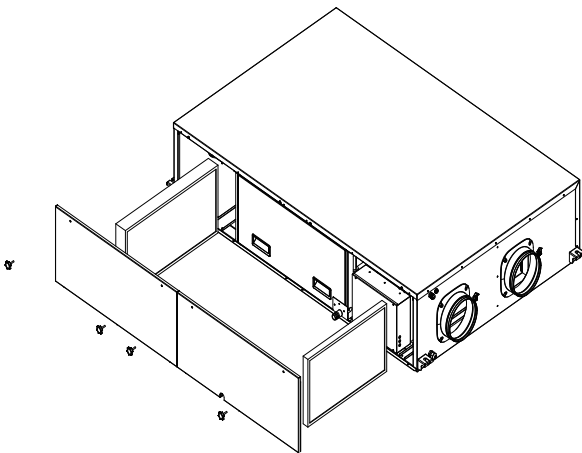
2. Cleaning the Heat Exchange Core
The equipment comes standard with a full-heat exchange core, which consists of a galvanized plate frame, PP hollow plate skeleton, and PE polymer film. The heat exchange core can be used for a long time, with a lifespan of over 10 years. After using the full-heat exchange core for a period of time, dust will accumulate, and severe accumulation can lead to blockage of the honeycomb, affecting air volume and heat exchange efficiency. Therefore, it needs to be cleaned regularly, with a recommended cleaning cycle of 12 months. When cleaning, remove the heat exchange core and rinse it with clean water. After air-drying, reinstall it into the machine.As the heat exchange core is a separate module, refer to the block maintenance section for disassembly methods.

3. Cleaning the Body:
(1) Please wipe with a soft and clean dry cloth.
(2) If the body is covered with dust or is very dirty, please wipe it with a flexible cleaner, and then wipe off the cleaner with a dry cloth dipped in water. It is strictly forbidden to use solvents, polishing powders, etc., to clean the body to avoid damaging the surface.
(3) It is strictly forbidden to rinse with water to avoid poor insulation and leakage.

Safety Precautions for Safe Use and Maintenance:

1. Before use, please ensure that the power supply is 220V~50Hz.

2. Do not switch on or off the device by plugging or unplugging the power cord, as this may cause fire or electric shock accidents.

3. Do not insert thin rods or hard objects into the device to avoid malfunctions or hazards.

4. Be sure to ground the device and ensure a reliable connection.

5. When moving or storing the device, do not place it on its side or upside down, as this may cause compressor failure.

6. Do not use any relays, extension cords, or adapters to connect the device, as this may cause fire, electric shock, or overheating.

7. Do not place the device near stoves, heaters, or other heat-generating equipment, as the internal wiring may overheat, leading to fire.

8. Do not use the device in places where it may be exposed to direct sunlight, wind, or rain. The device is for indoor use only.

9. If a problem occurs (such as a burning smell), immediately turn off the device and unplug it. Failure to do so may cause fire or new malfunctions.

10. Do not use the device in places where it may be affected by chemicals. Drugs or solvents released into the air may adversely affect the device.

11. When not in use for a long time, please unplug the power cord.

12. When draining continuously, please ensure that the drainage pipe is placed properly to ensure smooth drainage. If the temperature around the water pipe is low, it may freeze, so continuous drainage is not recommended.

13. Do not repair, disassemble, or modify the device yourself, as this may cause fire or electric shock accidents.

14. Place the device in a stable location. If the device falls over, water from the tank may leak out, damaging surrounding items and causing fire or electric shock accidents.

The names and quantities of harmful substances in the product

Component names	Harmful substances					
	Lead（Pb）	Mercury（Hg）	Cadmium(Cd)	Hexavalent Chromium(Cr(VI))	Polybrominated Biphenyls (PBB)	Polybrominated Diphenyl Ethers (PBDE)
External components	◯	◯	◯	◯	◯	◯
Internal components	✕	◯	◯	◯	◯	◯
Electrical components	✕	◯	◯	◯	◯	◯
Accessory components	◯	◯	◯	◯	◯	◯

This table is prepared in accordance with the provisions of SJ/T 11364.
O: Indicates that the content of the harmful substance in all homogeneous materials of the component is below the limit requirements specified in GB/T 26572.
X: Indicates that the content of the harmful substance exceeds the limit requirements specified in GB/T 26572 in at least one homogeneous material of the component.

Environmental Usage Period

The number of years in this symbol is based on the requirements of SJ/T 11364 "Requirements for Marking of Restrictions on Hazardous Substances in Electrical and Electronic Products" and applies to electronic products manufactured or imported within the territory of the People's Republic of China (excluding Taiwan, Hong Kong, and Macau).

Under the condition of complying with the relevant safety and usage precautions recorded in the user manual, and in the absence of other legal or regulatory disclaimers, within the above-mentioned period starting from the date of production, harmful substances in the product will not leak or mutate, and the use of the product will not cause serious pollution to the environment or cause serious damage to the user's person or property.
The "Environmental Usage Period" is not a safety usage period. It is particularly different from usage periods limited based on factors such as electrical performance safety and electromagnetic safety.
When the product is appropriately disposed of after use, it is hoped that it will be handled in accordance with laws or regulations regarding the recycling or reuse of electrical and electronic products.
Note: This period is the "environmental usage period" and is not the product's quality guarantee period. This table of harmful substance contents is for general use of BLAUBERG products; please refer to the actual product for details of the parts listed in the above form.

Warranty Certificate

Warranty Terms

1.The warranty period starts from the date of purchase, and all warranty terms expire after the warranty period. When requesting warranty service, please present a valid purchase receipt, paying attention to the following two points:

a. Products under warranty need to be repaired at an authorized Blauberg service center.

b. Keep this warranty certificate properly for verification during warranty service.

2.From the date of purchase, free repair or replacement of parts is provided for malfunctions occurring due to product quality issues during normal use within the following periods:

 a.Whole unit: 2 years

b.Main components: Compressor - 3 years, Fan - 5 years

3.Consumable materials such as gaskets, filters, screw packs, and fuses are not covered by the warranty.

4.Other situations not specified will be handled according to national regulations.

Disclaimer

The following reasons for malfunction are not covered by the warranty:

1. Damage caused during transportation, storage, or installation not attributable to the manufacturer.

2. Damage caused by improper operation, abnormal power supply, etc.

3. Damage caused by floods, lightning, fires, earthquakes, or other force majeure factors.

4. Damage caused by reasons other than those attributable to the manufacturer.

Information Registration

Product Model:		Serial Number:	
Purchase Date:		Dealer Name:	
User Name:		User Phone Number:	
User Address:			

After-sales Service Hotline: 400-835-0379

Pre-sales Consultation Hotline: 400-825-0508

Official Website: http://www.blauberg.cn

This section contains warranty information, please keep it safe.

Manufacturer Name: Blauberg Environmental Systems (Suzhou) Co., Ltd.
Manufacturer Address: No. 8 Zhujie, Industrial Park, Suzhou, Jiangsu Province

Product Qualification Certificate

BLAUBERG
Ventilatoren

Product Qualification Certificate

This product has undergone rigorous testing, complies with standards, and is approved for sale.

Inspection Date: _____

Inspector: _____

QC PASS 1601