

USER' S MANUAL

ISO BOX-F RE 150L
ISO BOX-F RE 150



Fresh Air Purifier

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This user's manual consisting of the technical details, operating instructions and technical specification covers the installation and mounting of the Iso Box-F RE sound-insulated centrifugal filter fan (hereinafter referred to as «the fan» or «the unit» as mentioned in the «Safety requirements» and «Manufacturer's warranty» sections as well as in warnings and information blocks).

SAFETY REQUIREMENTS

Read the user's manual carefully prior to installing and operating the unit.

Fulfil the user's manual requirements as well as the provisions of all the applicable local and national construction, electrical and technical norms and standards.



The warnings contained in the user's manual must be considered most seriously since they contain vital personal safety information.

Failure to follow the rules and safety precautions noted in this user's manual may result in an injury or unit damage.

After a careful reading of the manual, keep it for the entire service life of the unit.

While transferring the unit control the user's manual must be turned over to the receiving operator.

Symbol legend:

	WARNING!
	DO NOT!

UNIT MOUNTING AND OPERATION SAFETY PRECAUTIONS



- Disconnect the unit from power mains prior to any installation operations!



- The unit must be grounded!



- Do not lay the power cable of the unit in close proximity to heating equipment!



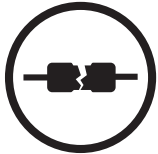
- While installing the unit follow the safety regulations specific to the use of electric tools!



- Do not change the power cable length at your own discretion.
- Do not bend the power cable.
- Avoid damaging the power cable.
- Do not put any foreign objects on the power cable.



- Unpack the unit with care.



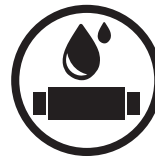
- Do not use damaged equipment or cables when connecting the unit to power mains.



- Do not operate the unit outside the temperature range stated in the user's manual.
- Do not operate the unit in aggressive or explosive environments.



- Do not touch the unit controls with wet hands.
- Do not carry out the installation and maintenance operations with wet hands.



- Do not wash the unit with water.
- Protect the electric parts of the unit against ingress of water.

UNIT MOUNTING AND OPERATION SAFETY PRECAUTIONS



- Do not allow children to operate the unit.



- Disconnect the unit from power mains prior to any technical maintenance.



- Do not store any explosive or highly flammable substances in close proximity to the unit.



- When the unit generates unusual sounds, odour or emits smoke disconnect it from power supply and contact the Seller.



- Do not open the unit during operation.



- Do not direct the air flow produced by the unit towards open flame or ignition sources.



- Do not block the air duct when the unit is switched on.



- In case of continuous operation of the unit periodically check the security of mounting.

PURPOSE

The fan is designed for ventilation of domestic, public and industrial premises with high requirements to the noise level and with limited space for mounting.

The fan is intended for mounting into a system of round air ducts.

The unit is designed to ensure continuous mechanical air exchange in houses, offices, hotels, cafes, conference halls and other utility and public spaces.

The unit is intended for suspended mounting, and rated for continuous operation.



THE UNIT MAY NOT BE OPERATED BY CHILDREN OR PERSONS WITH REDUCED PHYSICAL, MENTAL OR SENSORY CAPACITIES, OR LACKING THE APPROPRIATE TRAINING.

THE UNIT MUST BE INSTALLED AND CONNECTED ONLY BY PROPERLY QUALIFIED PERSONNEL AFTER THE APPROPRIATE BRIEFING.

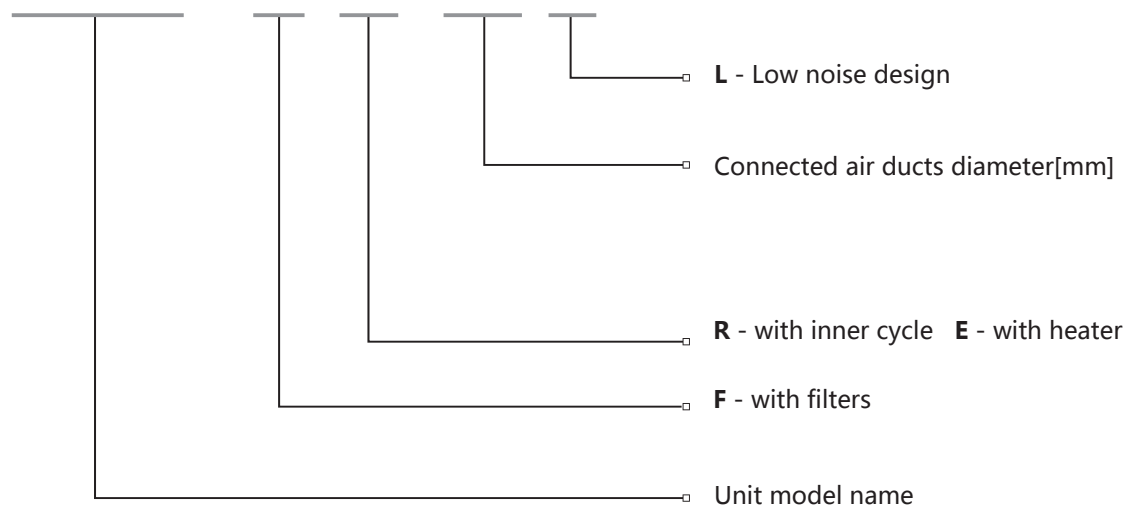
THE CHOICE OF UNIT INSTALLATION LOCATION MUST PREVENT UNAUTHORIZED ACCESS BY UNATTENDED CHILDREN.

DELIVERY SET

Name	Amount
Fan	1 item
User's manual	1set
Waranty card	1set
Packing box	1 item
Hanger	4 items
Self-tapping screw	16 items
Controller	1 item

DESIGNATION KEY

Iso Box - F RE 150 L



TECHNICAL DATA

Transported air must not contain any flammable or explosive mixtures, evaporation of chemicals, sticky substances, fibrous materials, coarse dust, soot and oil particles or environments favourable for the formation of hazardous substances (toxic substances, dust, pathogenic germs).

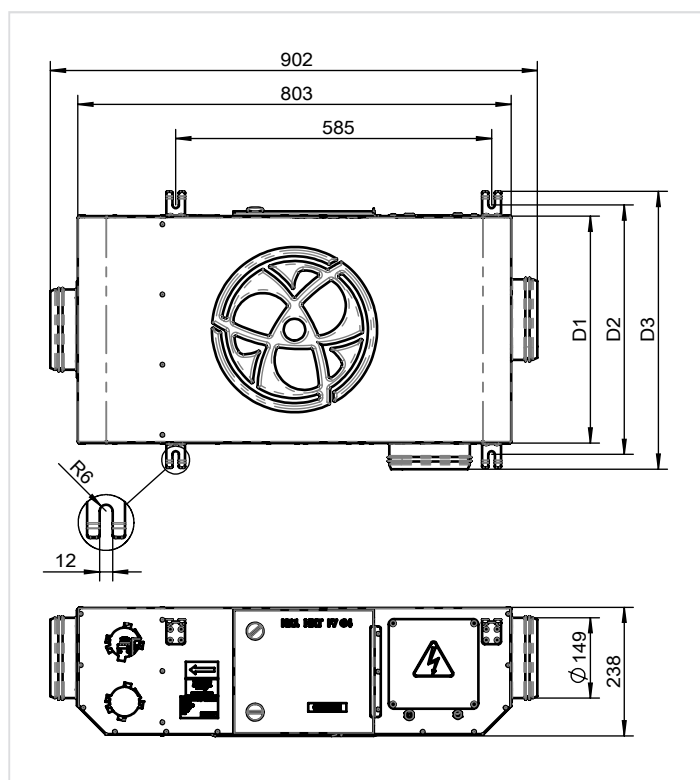
The fan is designed for operation in an enclosed area at ambient temperatures from -25°C to +40°C at relative humidity of up to 80% (at +25°C). Operation under the conditions specified in the user manual ensures trouble-free operation and long service life.

The unit casing is made of painted steel.

Ingress protection rating against access to hazardous parts and water ingress is IPX4.

The unit design is constantly being improved, so some models can slightly differ from those ones described in this manual.

OVERALL DIMENSIONS OF THE UNIT [mm]



TYPE	D1	D2	D3
ISO BOX-F RE 150L	420	462	514.5
ISO BOX-F RE 150	500	542	594.5

ISO BOX-F RE TECHNICAL DATA

Parameters	ISO BOX-F RE 150L			ISO BOX-F RE 150		
	1	2	3	1	2	3
Fan speed	1	2	3	1	2	3
Voltage [V]	220V					
Rated Power [W]	68	80	100	112	134	176
Rated Current [A]	0.31	0.36	0.45	0.51	0.61	0.8
Rated air capacity [m ³ /h]	180	270	370	230	320	430
PM 2.5 removal efficiency [%]	99	97	95	99	97	95
Rated RPM	740	1100	1650	760	1000	1450
Sound pressure level at 3 m distance [dB(A)]	32	37	44	33	38	45
Filters	G4+F7(Optional)+ Activated Carbon (Optional)+H11					
Heater power[W]	800					
Maximum transported air temperature [°C]	-25..+40					
Ingress protection rating of the casing	IPX4					

FUNCTION AND CONTROL

The main function of this unit is the fresh air function: the fresh air outside can be continuously filtered and transported to the indoors to create a good living environment for you.

The unit is equipped with internal circulation function: it can be turned into a powerful air purifier immediately after opening, which can effectively filter suspended harmful particles in indoor air.

The unit's unique electric heating function (800W): When the ambient temperature is less than 15 °C, this function is activated and can be manually opened by the controller to give you a warm and comfortable fresh air. When the outdoor temperature is less than -10 °C. To protect the filters from freezing, the fresh air mode is inactivated. Nevertheless, you can also acquire fresh air from the inner cycle mode.

The unit is equipped with a large screen and multi-function display: it can display indoor temperature, humidity, PM2.5, VOC, carbon dioxide concentration and other information, making the device control more user-friendly.

The controller equipped with this unit is powered by 12V DC, making operation safer.

The unit supports RS485 communication. For details, please refer to the official website: www.blauberg.cn or consult your local dealer.

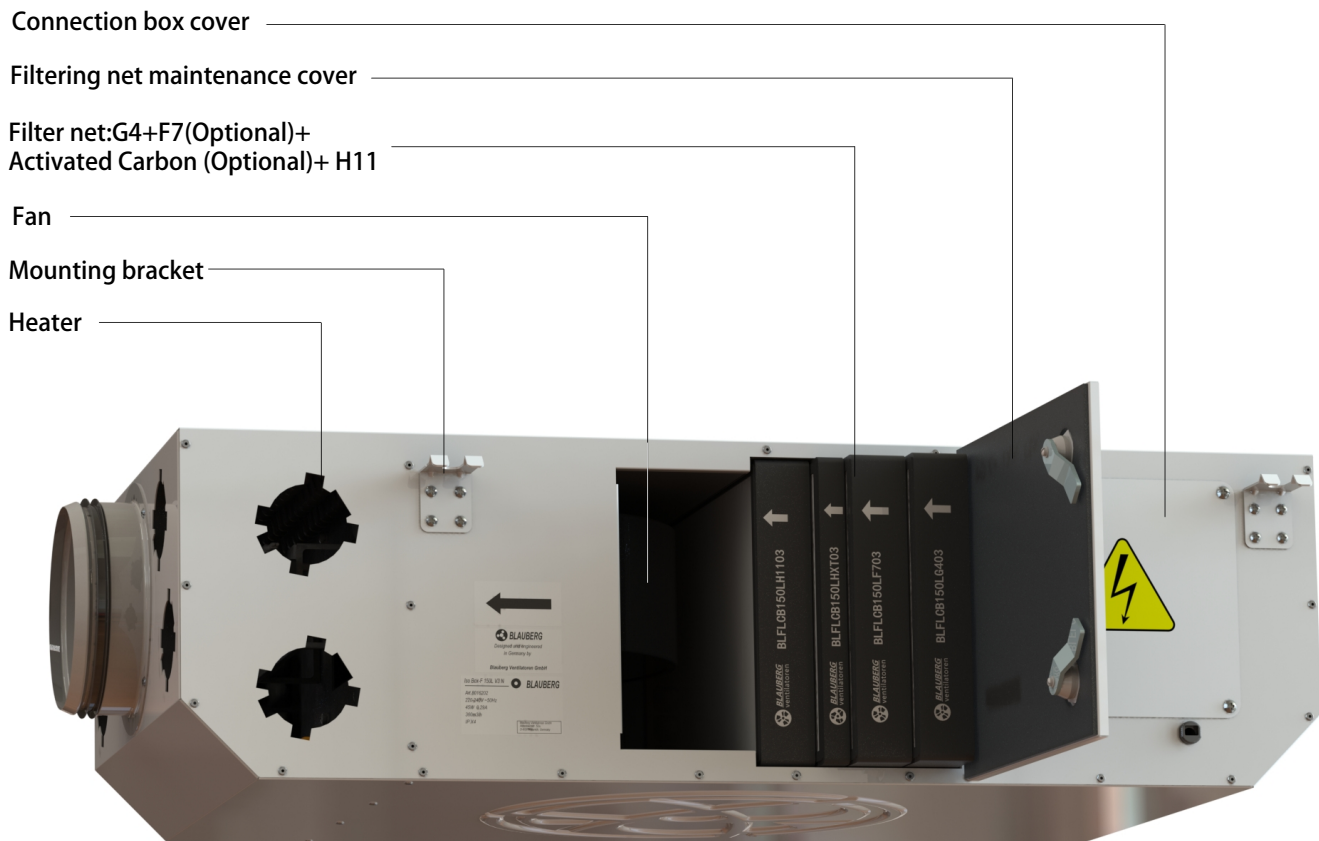
UNIT DESIGN AND OPERATING LOGIC

The unit casting is made of galvanized sheet steel using heat -and -sound-insulation material.

The unit is equipped with an external rotor and impeller with back ward curved blades.

The unit is equipped with filters of different filter grades. Each ISO BOX-F RE device can be equipped with G4+F7(Optional) + activated carbon(Optional) + H11 filter.

Air flow direction is indicated by an arrow on the casting of the unit.



MOUNTING AND SET-UP

The unit is suspended to the mounting surface through threaded rod fixed inside the expansion anchor. The three flanges of the unit need to be connected to the circular duct.

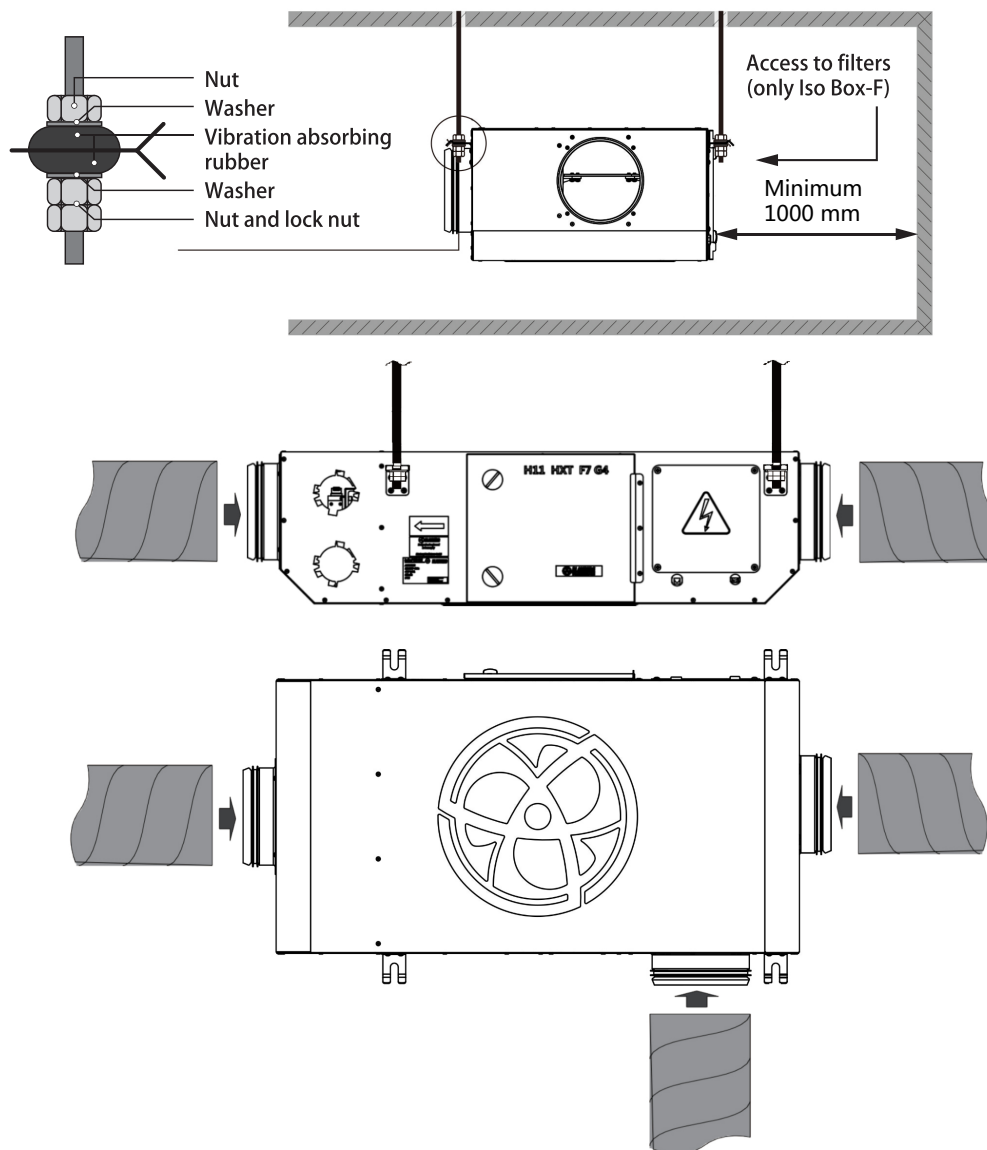
This equipment is equipped with a mounting bracket. The lifting bracket is screwed to the corresponding hole of the housing before lifting.

While installing the unit ensure convenient access for subsequent maintenance and repair. Fasteners for ceiling mounting are not included into delivery set and should be ordered separately.

Fasteners should be selected and installed by professionals. Before installation, the construction structure should be consulted to ensure that the weight of the equipment can be withstood and whether it is allowed to be constructed there. While installing the equipment to ensure that it is 2.3m above the indoor floor.

Avoid setting the outdoor air inlet of the equipment to the place where the dirty gas such as the exhaust hood of the hood is collected. Try to set it in an open space where the air flows smoothly.

MOUNTING



To attain the best performance of the fan and to minimise turbulence-induced air pressure losses connect the straight air duct section to the spigots on both sides of the unit while mounting.

Minimum straight air duct length:

- equal to 1 air duct diameter on intake side
- equal to 3 air duct diameter on intake side

If the air ducts are too short or not connected, protect the unit parts from ingress of foreign objects.

To prevent uncontrollable access to the spigots may be covered with a protecting grille or other protecting device with mesh width not more than 12.5 mm.

CONNECTION TO POWER MAINS



DISCONNECT THE UNIT FROM POWER MAINS PRIOR TO ANY OPERATIONS. THE FAN UNIT MUST BE CONNECTED TO POWER MAINS BY A QUALIFIED ELECTRICIAN; THE RATED ELECTRICAL PARAMETERS OF UNIT ARE GIVEN ON THE MANUFACTURER'S LABEL.



ANY INTERNAL CONNECTION MODIFICATION IS NOT ALLOWED AND RESULTS IN WARRANTY LOSS.

The fan is rated for connection to single-phase AC 220V/50Hz power mains according to the wire diagram below.

The terminal designation is placed inside of the terminal box.

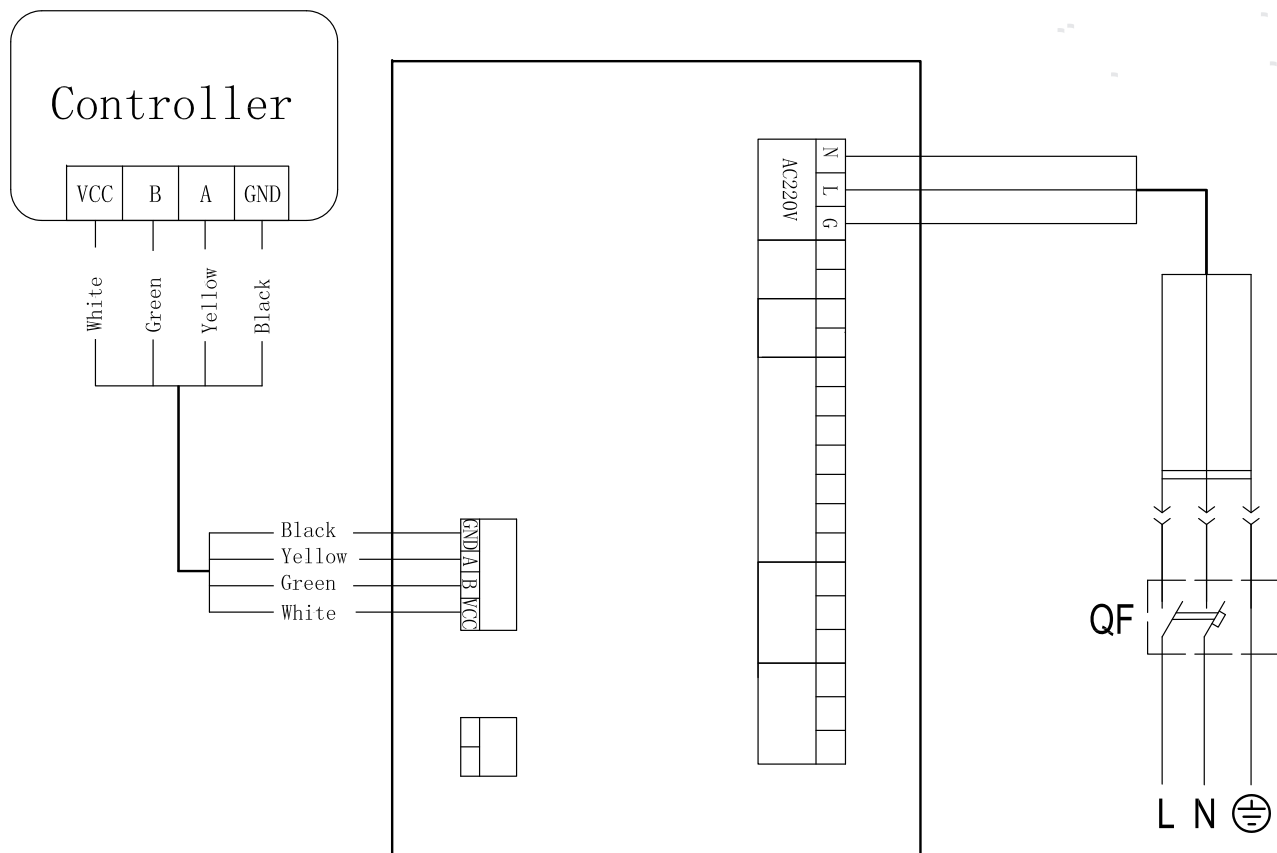
The terminal clamp marking corresponds to the marking on the wiring diagram.

The fan must be connected to power mains using durable, insulated and heat-resistant conductors (cables and wires) with corresponding cross section (not less than 0.75mm²).

Route the conductors to the terminal box through the stepped grommet on the unit panel to preserve the electrical protection class.

When the ventilating fan is connected to a fixed power supply line, a power all-pole disconnecting device with a contact opening distance of at least 3 mm should be installed.

EXTERNAL CONNECTIONS DIAGRAM



TECHNICAL MAINTENANCE



DISCONNECT THE UNIT FROM POWER SUPPLY BEFORE ANY MAINTENANCE OPERATIONS.

1. Filter maintenance

Dirty filters increase air resistance and increase the power consumption of the fan. The controller has a built-in filter replacement reminder clock. When the controller indicator light flashes (see page 6), please replace the filter in time. Please contact your local **BLAUBERG** dealer for purchase. Do not use the filters purchased through informal channels.

Filter replacement sequences:



- Turn the knob as shown in the figure;
- Remove the access panel;
- Pull out the filter one by one;
- Reposition in the order indicated on the filter maintenance cover.

2. Technical maintenance of air duct system (every 5 years).

Even regular fulfilling of all the prescribed above maintenance operations may not completely prevent dirt accumulation in the air ducts which reduces the unit capacity. Duct maintenance means regular cleaning or replacement.

TROUBLESHOOTING

Problem	Possible reasons	Troubleshooting
The fan(s) do(es) not get started.	No power supply.	Make sure the power supply line is connected correctly, otherwise troubleshoot a connection error.
	Jammed motor.	Turn off the fan. Troubleshoot the motor jamming. Restart the fan.
Automatic circuit breaker tripping following the fan turning on	High current consumption due to short circuit in power line.	Turn off the fan. Contact the Seller.
Low air flow	The filters and the fans are clogged, the heat exchanger is clogged.	Clean or replace the filters, clean the fans and the heat exchanger.
	The ventilation system components (air ducts, diffusers, louvre shutters, grilles) are clogged or damaged.	Clean or replace the ventilation system components (air ducts, diffusers, louvre shutters, grilles).
Cold supply air	Extract filter clogging.	Clean or replace the extract filter.
Noise, vibration	The impellers are soiled.	Clean the impellers.
	The fan or casing screw connection is loose.	Tighten the screw connection of the fans or the casing against stop.

STORAGE AND TRANSPORTATION REGULATIONS

Store the unit in the manufacturer's original packing box in a dry closed ventilated premise with temperature range from +5 °C to + 40 °C.

Storage environment must not contain aggressive vapours and chemical mixtures provoking corrosion, insulation and sealing deformation.

Use suitable hoist machinery for handling and storage operations to prevent possible damage to the unit.

Follow the handling requirements applicable for the particular type of cargo.

The unit can be transported in the original packing by any mode of transport without limitation provided proper protection against precipitation and mechanical damage.

Avoid sharp blows, scratches or rough handling during transportation, loading and unloading.

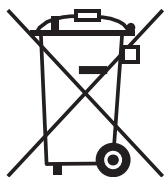
MANUFACTURER'S WARRANTY

The manufacturer hereby warrants normal operation of the unit over the period of two years from the retail purchase date provided observance of the installation and operation regulations.

In case of a failure due to a manufacturing fault during the warranty period the consumer has the right to exchange it. The replacement is offered by the Seller. In case of no confirmation of the purchase date, the warranty period shall be calculated from the manufacturing date.

The MANUFACTURER is not responsible for any damage resulting from any misuse of or gross mechanical interference with the unit.

The MANUFACTURER is not responsible for the damages resulted due to the use of third party equipment or to third party equipment.



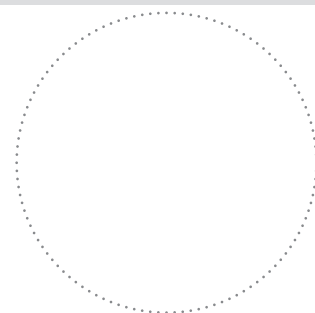
WARNING!
THE PRODUCT MUST BE COLLECTED SEPARATELY AT THE END OF SERVICE LIFE.
THE UNIT CONTAINS IN PART MATERIALS THAT CAN BE RECYCLED AND IN PART SUBSTANCES THAT SHOULD NOT END UP AS DOMESTIC WASTE.
DISPOSE OF THE UNIT ONCE IT HAS REACHED THE END OF ITS WORKING LIFE ACCORDING TO THE REGULATIONS VALID IN YOUR COUNTRY.

ACCEPTANCE CERTIFICATE

Unit Type	Fresh Air Purifier
Model	Iso Box- _____
Serial Number	
Manufacture Date	
Quality Inspector's Stamp	

SELLER INFORMATION

Seller	
Address	
Phone Number	
E-mail	
Purchase Date	



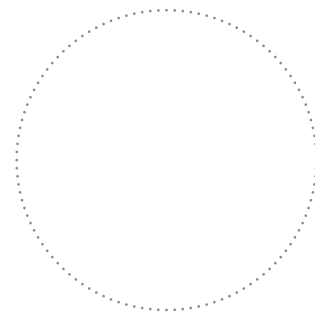
This is to certify acceptance of the complete unit delivery with the user's manual. The warranty terms are acknowledged and accepted.

Customer's Signature	
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Seller's Stamp

INSTALLATION CERTIFICATE

Fresh Air Purifier	
Iso Box- _____	
has been connected to power mains pursuant to the requirements stated in the present user's manual.	
Company Name	
Address	
Phone Number	
Installation Technician's Full Name	
Installation Date:	Signature:



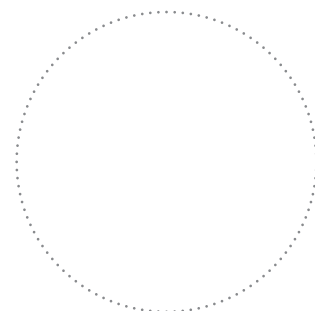
Installation Company Stamp

The unit has been installed in accordance with the provisions of all the applicable local and national construction, electrical and technical codes and standards. The unit operates normally as intended by the manufacturer.

Signature:	
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WARRANTY CARD

Unit Type	Fresh Air Purifier
Model	Iso Box- _____
Serial Number	
Manufacture Date	
Purchase Date	
Warranty Period	
Seller	



Seller's Stamp

