

**reventon**  
INDUSTRIAL SOLUTIONS

## Technical documentation

ELECTRIC HEATED AIR CURTAIN

**MODELS:**

REVENTON GROUP AERIS 100E-1P  
REVENTON GROUP AERIS 150E-1P  
REVENTON GROUP AERIS 200E-1P



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**1. INTRODUCTION**

Thank you for purchasing Reventon Group air curtain. We would like to congratulate on good choice. Please read and save these instructions.

**2. PRECAUTIONS**

The buyer and the user of the device should read carefully the following instructions and proceed to the content recommendations. Proceeding due to the following instruction guarantees the correct usage and safety. In case of any doubts please contact the Reventon Group Sp. z o.o. The Supplier reserves the rights to make changes to the technical documentation without previous notice. The Supplier is not responsible for the damages which occur due to improper installation, not keeping the device in repair or using the device out of line. The installation should be carried out by the professional installers, who possess the qualifications to install these types of devices. The installers are responsible for making the installation as instructed in the technical data. Regulations and safety rules must be followed. During the installation, use, service and periodical inspections all regulations and safety rules must be followed. In case of unserviceable please plug out the device and contact with the authorized person or the Supplier.

**3. TRANSPORT**

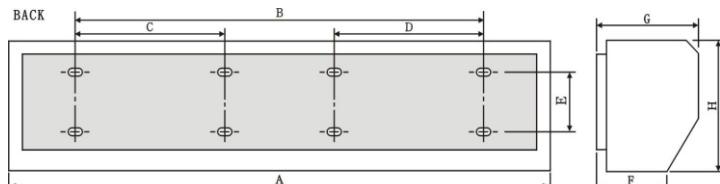
During the acceptance of goods it is needed to check the device in order to exclude any damages. During the transport it is needed to use the proper equipment, it is necessary to carry the device by two people. In case of any damages please fill in the damage report in presence of the Supplier or the carrier.

**4. PACKAGE CONTENT**

- Air curtain
- Operation and maintenance manual and warranty card.

**5. APPLICATION**

Air curtains are widely installed at the entrances of supermarkets, theaters, meeting rooms, hotels, offices, storages etc. They can reduce penetration of insects, outside dust, unconditioned air into a conditioned space by forcing an air stream over the entire entrance to create a comfortable environment for you.

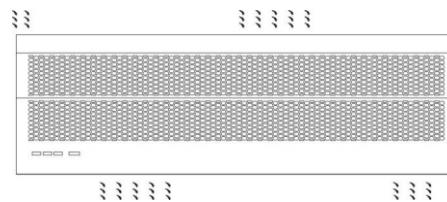
**6. DIMENSIONS**

MODEL	A	B	E	F	G	H
REVENTON GROUP AERIS 100E-1P	1000	440				
REVENTON GROUP AERIS 150E-1P	1500		90	105	195	265
REVENTON GROUP AERIS 200E-1P	2000		840			

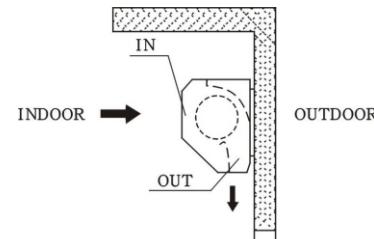
**7. INSTALLATION CAUTION**

**Must follow the following requests when installing air curtain:**

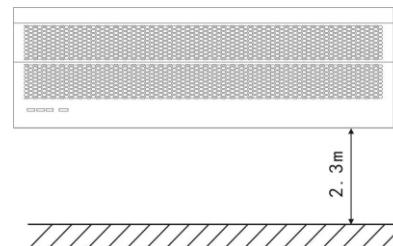
Please install the unit in a sturdy place to avoid the shaking and ensure its security.



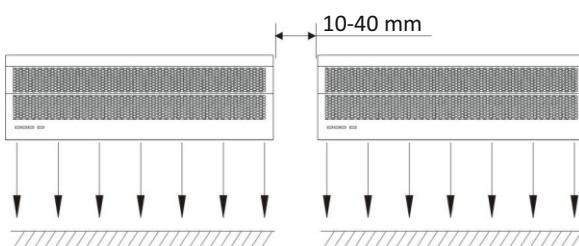
Please install the unit inside the room, above the door.



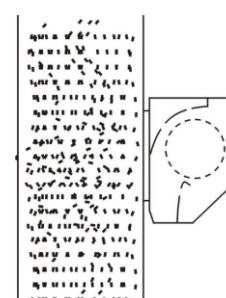
Don't install the unit too low, no less than 2.3 meters from the ground.



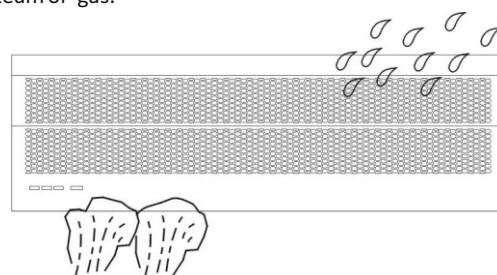
When the entrance is wider than the unit, it is recommended to install two or more units in parallel. In this case, provide 10-40 mm gaps between the units.



Don't allow gaps between the unit and the wall. When hanging it from the ceiling, using the enclosed ceiling brackets.



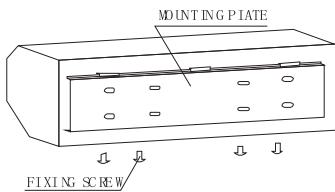
Don't install the unit in a place where it is splashed by water, exposed to excessive steam or gas.



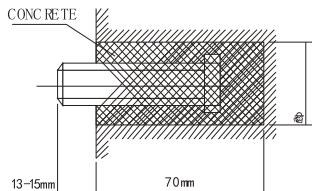
## 8. ASSEMBLY

### A. Installing on the concrete wall:

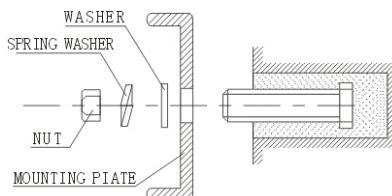
Removing the mounting plate. Unclamping the fixed screws on the back of main body to remove the mounting plate.



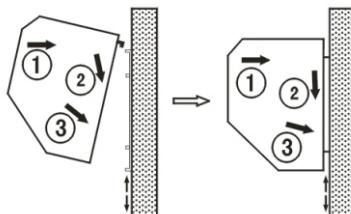
Fix the bolts in the proper position (Fix the position with the mounting plate and pour cement into the bolt holes.)



When the cement has frozen, fit the mounting plate (use the washer and nut according to the following).

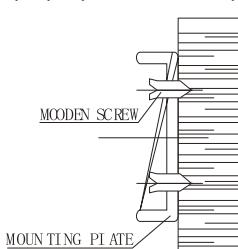


Install the main body. Set the main body onto the upper end of the mounting plate and clamp it as shown.

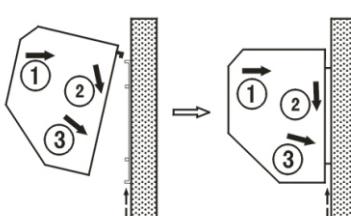


### B. Assembly on the wooden wall:

Fix the mounting plate in the proper positions with tapping screw.

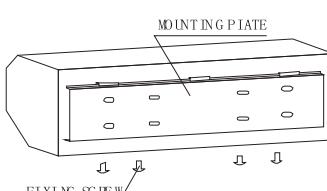


Install the main body. Set the main body onto the upper end of the mounting plate and clamp it as shown.

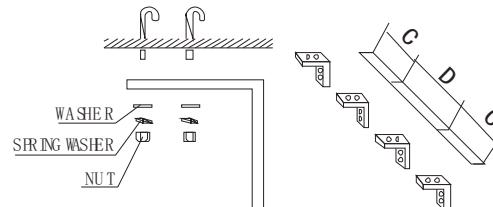


### C. Assembly under the ceiling:

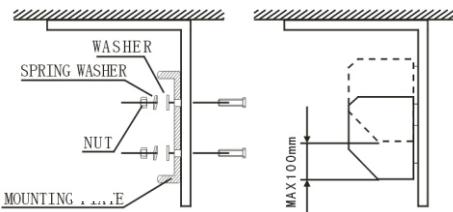
Remove the mounting plate from main body. Unclamping the fixed screws on the back of main body to remove the mounting plate.



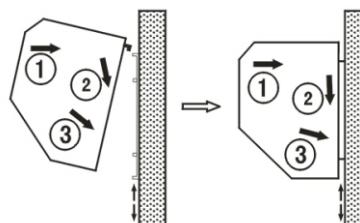
### Fixing ceiling brackets as Fig.



Set the mounting plate on the ceiling brackets and ensure it is safe & stable (use the bolts attached to the ceiling brackets as Fig. Using the ceiling brackets to hang from the ceiling, the position of mounting plate can be adjusted in the limit of 100mm).



Do the same as step 4.1.4 of A to install the main body.



## 9. TECHNICAL DATA

TECHNICAL DATA Code	AERIS 100E-1P AC100E-1P	AERIS 150E-1P AC150E-1P	AERIS 200E-1P AC200E-1P
Dimensions [mm]	1000 x 195 x 265	1500 x 195 x 265	2000 x 195 x 265
Power supply voltage [V~Hz]	230~50	230~50	230~50
Motor power [W]	180	230	350
Heater power [kW]	2	3,3	4,6
I stage	2	3,3	4,6
II stage	4	6,7	9,4
III stage	6	10	14
Maximum air speed [m/s]	8,5	8,5	8,5
Noise [dB]	HI 57 LO 55	59 57	61 59
Maximum airflow [m <sup>3</sup> /h]	1200	1900	2800
Weight net [kg]	15,5	20,5	26

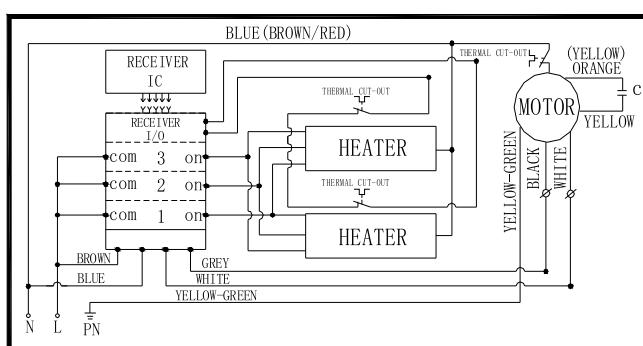
\* According to parameters: water 90/60 °C and inlet air temperature 0°C

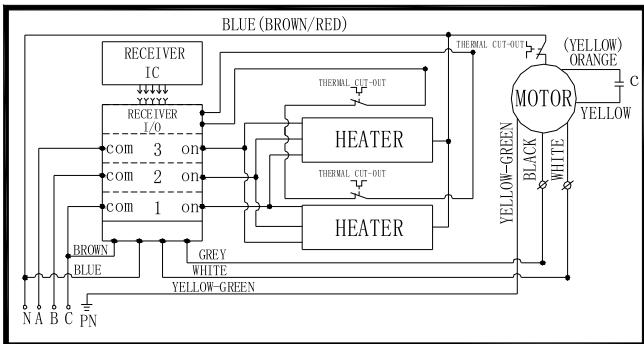
## LINE SIZE

Power	SINGLE PHASE (230V~, MAIN LINE : L, N)						
	3	4	5	6	8	10	14
Heater power [kW]	3	4	5	6	8	10	14
Main line [mm <sup>2</sup> ]	1.5	2.5	2.5	4.0	6.0	10	10
Earth line [m <sup>2</sup> ]	0.75	1.0	1.0	1.5	2.5	2.5	4.0

**WARNING: forbid to overload operation for a long time!**

## 10. WIRING DIAGRAM





## 11. OPERATION

### -Controlled by remote controller

a.) Press "ON/OFF" button to turn ON the unit. Main receiver receives the signal with the sound of "beep" to start working with the green light in cool mode at high speed "H". Press "ON/OFF" button again to turn OFF.

b.) When the unit is working at the above a. situation, press "COOL" button in the Remote controller, receiver receives the signal with the sound of "beep" and switch high speed to low speed "L". Meanwhile there is a green light display in the receiver. Press "COOL" button again, the unit will switch low speed to high speed. So when the unit is working at cool mode, press "COOL" button can switch air curtain working under the cycle of Low or High speed.

c.) When the unit is working at the above b. situation, press "HEAT" in the remote controller, receiver receives the signal with the sound of "beep" and switch cool mode to heating mode at low power. Meanwhile there is a Red light display in the receiver. Press "HEAT" button again, the unit will switch low power to middle power. Meanwhile there is TWO Red lights display in the receiver. Press "HEAT" button again, the unit will switch middle power to high power. Meanwhile there is THREE Red lights display in the receiver. Press "HEAT" button again, the unit will switch heating mode to cool mode and the red lights display change to green light in the receiver. So when the unit is working at cool mode, press "HEAT" button can switch air curtain working under the cycle of heating low power, heating middle power, heating high power or cool mode.

d.) When the unit works at cool mode, press "ON/OFF" button to turn OFF the unit.

e.) When the unit works at heating mode, press "ON/OFF" button, receiver receives the signal with the sound of "beep" and switch to cool mode at high speed, the indication light turns to green flicker light. The unit will continue to work in cool mode for 3 minutes and then stop. (This is to ensure the heater is been cooled down and has 3 minutes delay stop).

### Controlled by the control panel in the unit is the same function as 7.1.

### -Overheat protection:

When the air curtain works at heating mode, there is overheat protection. When the heater temperature is overheating, heating mode will stop and switch to cool mode automatic, at the same time the indication light change to green light. When the temperature drop down to a certain temperature, if want the unit to work at heating mode, press "HEAT" button to continue to work heating mode.

## 12. CAUTIONS

- Turn off the interrupter or disconnect the plug for any maintenance service.
- Turn off the interrupter or disconnect the plug in case of a non product use.
- Make sure that the product provides a ground wire.
- The pictures shown on this manual are illustrative only.
- 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.
- 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.

## 13. ATTENTION

- Use the unit at the rated voltage and frequency indicated on the nameplate.
- Never use petrol, benzene, thinners or any other such chemical to clean the unit.
- Routine maintenance must be done every year.

## 14. TERMS OF WARRANTY

I. Reventon Group Sp. z o.o. [Ltd.] 3B Montażowa Street , 43-300 Bielsko-Biała, Poland, is the producer of the Reventon Group brand. The warranty concerns the following devices and it is valid for 24 months:

- Electric heated air curtain REVENTON GROUP AERIS 100E-1P
- Electric heated air curtain REVENTON GROUP AERIS 150E-1P
- Electric heated air curtain REVENTON GROUP AERIS 200E-1P

II. Warranty is valid in the European Union.

III. The terms of warranty are valid from purchasing the device (the date issuing a document confirming the purchase of the device) but not further than 30 months from leaving the producer's warehouse.

IV. The defects revealed during the warranty period will be removed free of charge in 14 working days. The service will be done by the installation company due to the terms of included in warranty card. The elements will be supplied by the Reventon Group producer during the warranty period.

V. Warranty does not cover the parts of the device subject to normal maintenance and the cases as below:

a) Mechanical defects, damages from the impact of the improper transportation or damages through improper storage.

b) Defects through:

- improper usage and service;
- using the device in the improper conditions (too high humidity, too high or too low temperature, impact of the surrounding, sun etc.);
- modified equipment that has been modified or repaired without written agreement of the producer;
- connecting additional equipment, which is not recommended by the producer or inconsistent with the technical documentation;
- improper power supply.

c) Elements which wear and tear such as discolor or using.

VI. All changes in record in the warranty terms or any constructive modifications, independent service outside the Reventon Group service or use, uncaring, makes the warranty not valid.

VII. To obtain the service it is needed to send to the producer warranty card with the signature, document confirming the purchase, (copy of the invoice) and correctly filled the warranty form.

VIII. Not following to any of warranty regulations makes the warranty not valid.

All correspondence, returns, complains should be send to the following address: Reventon Group Sp. z o.o. 3B Montażowa Street, 43-300 Bielsko-Biała, Poland or e-mail: [serwis@reventongroup.eu](mailto:serwis@reventongroup.eu)

**The producer reserves the rights to make changes to the technical documentation without previous notice.**

## Warranty card

Factory number of the device:	Address and place of assembly
Stamp and signature of the installation company:	

## Warranty form

The company reporting the complaint:	Date of assembly:  Date and circumstances of noticing the defect:	Address and place of assembly the device:
The company installing the device:		
Factory number of the device:	Date of declaration the complaint:	
Description of the defect:		
Contact Name and Surname, telephone number/ e-mail address:		

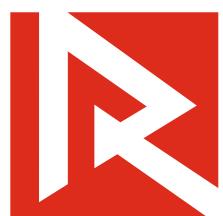
## Service card

Date of declaration the complaint	Description of the repair	Service stamp
Date of repair		



reventon INDUSTRIAL SOLUTIONS

Reventon Group [Ltd.] 3B Montazowa Street, 43-300 Bielsko-Biała, Poland



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