



Technical documentation

WATER HEATED AIR CURTAIN

MODELS:

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





ENG TECHNICAL DOCUMENTATION

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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.

1.1 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. All safety requirements must be taken into account during installation, use or inspection.

1.2TRANSPORT

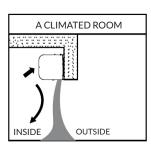
During the acceptance of goods it is needed to check the device in order to exclude any damages. During the transport it is needed to use the proper equipment, it is necessary to carry the device by two people. In case of any damages please fill in the damage report in presence of the Supplier or the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

1.3 PACKAGE CONTENT

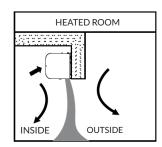
- air curtain
- operation and maintenance manual and warranty card
- assembly panel
- -door sensor

1.4USE

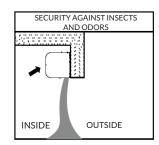
Air curtains are widely installed at the entrances of supermarkets, theaters, meeting rooms, hotels, offices, storages etc. They can reduce penetration of insects, outside dust, unconditioned air into a conditioned space by forcing an air stream over the entire entrance. In winter they prevent uncontrolled heat loss and in summer they prevent heat from the room (see figures). However, air curtains should not be used in corrosive environments for aluminum, copper and steel as well as in highly dusty environments (above 0,3 g/m^3). The devices should also not be installed in rooms where they would be exposed to high humidity or direct contact with water.



For air-conditioned rooms, the steering wheel must be set at an angle of 0-15 degrees towards the air-conditioned room (see figure).



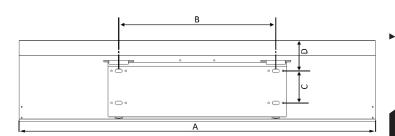
For heated rooms, set the steering wheel in the opposite direction to the room with the curtain at an angle of 0-15 degrees (see figure).

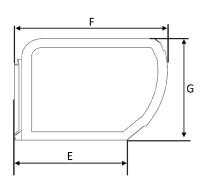


For canteens, kitchens, set the steering wheel towards the room with the curtain at an angle of 0 - 15 degrees (see figure).

2. DEVICE CHARCTERISTICS

2.1 DIMENSIONS





MODEL	Α	В	С	D	E	F	G	N.W (KG)
REVENTON GROUP AERIS 100WN-1P	1000	440						18
REVENTON GROUP AERIS 150WN-1P	1500	840	90	83	228	310	227	28
REVENTON GROUP AERIS 200WN-1P	2000	040						34

2.2.TECHNICAL DATA

TECHNIC	AL DATA	AERIS 100WN-1P	AERIS 150WN-1P	AERIS 200WN-1P	
Produc	t code	AC100WN-1P	AC150WN-1P	AC200WN-1P	
Power of the device	III STAGE	17,0	26,1	37,1	
[kW] *	II STAGE	15,8	24,1	34,0	
[]	I STAGE	14,2	21,9	31,4	
Maximum airflow	III STAGE	1500	2250	3250	
[m³/h]	II STAGE	1350	2000	2850	
[111 / 11]	I STAGE	1150	1750	2550	
Maximum air speed	III STAGE	9	9	9	
[m/s]	II STAGE	8	8	8	
[111/3]	I STAGE	7	7	7	
Water flow rate	III STAGE	749	1150	1638	
	II STAGE	698	1062	1498	
[dm³/h]	I STAGE	625	968	1386	
Maximum water t	emperature [°C]	90	90	90	
Maximum pro	essure [MPa]	1,6	1,6	1,6	
Connection d	iameter [``]	3/4	3/4	3/4	
Power supply [V]	/ Frequency [Hz]	230/50	230/50	230/50	
Date discrete a community	III STAGE	0,65	0,87	1,39	
Rated motor current [A]	II STAGE	0,57	0,78	1,30	
[A]	I STAGE	0,52	0,70	1,22	
Maximum	III STAGE	150	200	320	
motor power [W]	II STAGE	130	180	300	
motor power [11]	I STAGE	120	160	280	
Class of isolation / Pr	otection degree IP [-]	E / IP20	E / IP20	E / IP20	
Net wei	ght [kg]	18	28	34	
	III STAGE	57	59	61	
Noise [dB]	II STAGE	55	57	59	
	I STAGE	52	54	56	

^{*} according to parameters: water 90/60 °C and inlet air temperature 0 °C

TECHNICAL PARAMETERS HEATING

N. de alle la	AIR FLOW							V								
Model:	III STAGE = 9m/s						II STAGE = 8m/s					I STAGE = 7m/s				
REVENTON AERIS	V=1500 m3/h					V=1350 m3/h				V=1150 m3/h						
100WN-1P	T _p 1	Рт	Qw	ΔP_{w}	Tp2	Tp1	Рт	Qw	ΔPw	Tp2	T _p 1	Рт	Qw	ΔP_{w}	Tp2	
1007717 11	°C	kW	l/h	kPa	°C	°C	kW	l/h	kPa	°C	°C	kW	I/h	kPa	°C	
	0	17.0	749	21.3	36.0	0	15.8	698	18.8	37.5	0	14.2	625	15.4	40.0	
Tw1/Tw2 =	5	15.9	703	19.0	38.5	5	14.8	655	16.7	40.0	5	13.3	587	13.7	42.5	
90/70°C	10	14.9	655	16.7	41.0	10	13.8	611	14.7	42.5	10	12.4	547	12.1	45.0	
90/70 C	15	13.8	608	14.6	44.0	15	12.8	566	12.9	45.0	15	11.5	507	10.5	47.0	
	20	12.7	560	12.6	46.5	20	11.8	522	11.1	47.5	20	10.6	467	9.1	49.5	
	0	14.6	643	16.7	31.0	0	13.6	599	14.7	32.5	0	12.2	537	12.0	34.5	
Tw1/Tw2 =	5	13.6	596	14.5	33.5	5	12.7	556	12.8	35.0	5	11.3	498	10.5	37.0	
	10	12.5	549	12.5	36.5	10	11.6	512	11.0	37.5	10	10.4	458	9.1	39.5	
00/00 C	15	11.4	501	10.6	39.0	15	10.6	467	9.4	40.0	15	9.5	418	7.7	41.5	
	20	10.3	453	8.9	41.5	20	9.6	422	7.8	42.5	20	8.6	378	6.4	44.0	
	0	12.3	538	12.5	26.0	0	11.5	501	11.0	27.0	0	10.3	449	9.0	29.0	
Tw1/Tw2 =	5	11.2	491	10.6	28.5	5	10.5	457	9.3	29.5	5	9.4	410	7.7	31.5	
70/50°C	10	10.1	443	8.8	31.5	10	9.4	413	7.8	32.0	10	8.5	370	6.4	33.5	
70/50 C	15	9.0	395	7.2	34.0	15	8.4	368	6.3	35.0	15	7.5	330	5.2	36.0	
	20	7.9	346	5.7	36.5	20	7.4	323	5.0	37.5	20	6.6	289	4.1	38.5	
	0	9.9	432	8.8	21.0	0	9.3	403	7.8	22.0	0	8.3	361	6.4	23.5	
Tu4/Tu2 =	5	8.8	385	7.1	23.5	5	8.2	359	6.3	24.5	5	7.4	322	5.2	26.0	
Tw1/Tw2 = 60/40°C	10	7.7	337	5.6	26.5	10	7.2	314	5.0	27.0	10	6.5	282	4.1	28.0	
00/40 C	15	6.6	288	4.3	29.0	15	6.2	269	3.8	29.5	15	5.5	241	3.1	30.5	
	20	5.5	238	3.1	31.5	20	5.1	222	2.7	32.0	20	4.6	199	2.2	32.5	

V – Air volume

V – All volume P_T – Heating capacity T_{p1} – Inlet air temperature T_{p2} – Outlet air temperature

 T_{w1} – Inlet water temperature T_{w2} – Outlet water temperature

 Q_w – Water flow rate ΔP_w – Pressure drop of water

Model:							A	IR FLOV	v						
REVENTON	III STAGE = 9m/s						II STAGE = 8m/s				I STAGE = 7m/s				
AERIS	V=2250 m3/h					V=2000 m3/h				V=1750 m3/h					
150WN-1P	Tp1	Рт	Qw	ΔPw	Tp2	Tp1	Рт	Qw	ΔPw	Tp2	Tp1	Рт	Qw	ΔPw	Tp2
1001111 11	°C	kW	l/h	kPa	°C	°C	kW	l/h	kPa	°C	°C	kW	l/h	kPa	°C
	0	26.1	1150	22.7	36.5	0	24.1	1062	19.6	38.5	0	21.9	968	16.6	40.5
Tw1/Tw2 =	5	24.4	1078	20.2	39.5	5	22.6	996	17.5	41.0	5	20.6	908	14.8	43.0
90/70°C	10	22.8	1006	17.8	42.0	10	21.1	930	15.4	43.5	10	19.2	847	13.0	45.5
30/10 3	15	21.1	933	15.5	44.5	15	19.5	862	13.4	46.0	15	17.8	786	11.4	47.5
	20	19.5	860	13.4	47.0	20	18.0	794	11.6	48.5	20	16.4	724	9.8	50.0
	0	22.5	988	17.7	31.5	0	20.8	912	15.3	33.0	0	18.9	832	13.0	35.0
Tw1/Tw2 =	5	20.8	916	15.4	34.5	5	19.3	846	13.4	35.5	5	17.6	772	11.3	37.5
80/60°C	10	19.2	843	13.3	37.0	10	17.7	779	11.5	38.0	10	16.2	710	9.8	40.0
00/00	15	17.5	770	11.3	39.5	15	16.2	712	9.8	40.5	15	14.8	649	8.3	42.0
	20	15.8	696	9.4	42.0	20	14.6	643	8.2	43.0	20	13.4	587	6.9	44.5
	0	18.9	826	13.2	26.5	0	17.5	764	11.5	28.0	0	15.9	696	9.7	29.5
Tw1/Tw2 =	5	17.2	754	11.2	29.0	5	15.9	697	9.8	30.5	5	14.5	636	8.3	32.0
70/50°C	10	15.6	681	9.4	32.0	10	14.4	630	8.1	33.0	10	13.1	574	6.9	34.0
70/30 0	15	13.9	608	7.6	34.5	15	12.8	562	6.6	35.5	15	11.7	512	5.6	36.5
	20	12.2	533	6.0	37.0	20	11.3	493	5.2	38.0	20	10.3	449	4.5	39.0
	0	15.3	666	9.3	21.5	0	14.1	615	8.1	22.5	0	12.9	561	6.9	24.0
Tw1/Tw2 =	5	13.6	593	7.6	24.0	5	12.6	548	6.6	25.0	5	11.5	500	5.6	26.0
60/40°C	10	11.9	519	6.0	26.5	10	11.0	480	5.2	27.5	10	10.0	438	4.4	28.5
00/40 C	15	10.2	445	4.5	29.5	15	9.4	411	4.0	30.0	15	8.6	375	3.4	31.0
	20	8.5	368	3.3	32.0	20	7.8	341	2.8	32.5	20	7.1	311	2.4	33.0

V - Air volume P_T – Heating capacity T_{p1} – Inlet air temperature T_{p2} – Outlet air temperature T_{w1} – Inlet water temperature T_{w2} – Outlet water temperature Qw - Water flow rate

 ΔP_w – Pressure drop of water

							Ä	AIR FLOV	٧								
Model:		III S	TAGE =	9m/s			II STAGE = 8m/s					I STAGE = 7m/s					
REVENTON	V=3250 m3/h					V=2850 m3/h				V=2550 m3/h							
AERIS	T _{p1}	Рт	Qw	ΔPw	Tp2	Tp1	Рт	Qw	ΔPw	Tp2	T _p 1	Рт	Qw	ΔPw	Tp2		
200WN-1P	°C	kW	l/h	kPa	°C	°C	kW	l/h	kPa	°C	°C	kW	I/h	kPa	°C		
	0	37.1	1638	53.5	36.5	0	34.0	1498	45.4	38.5	0	31.4	1386	39.4	40.5		
Tu4/Tu2 =	5	34.8	1538	47.6	39.5	5	31.9	1406	40.5	41.0	5	29.5	1301	35.1	43.0		
Tw1/Tw2 = 90/70°C	10	32.5	1436	42.0	42.0	10	29.8	1313	35.7	43.5	10	27.5	1215	31.0	45.0		
90/70 C	15	30.2	1333	36.7	44.5	15	27.6	1219	31.2	46.0	15	25.6	1128	27.1	47.5		
	20	27.9	1229	31.7	47.0	20	25.5	1125	26.9	48.5	20	23.6	1040	23.4	50.0		
	0	32.1	1411	41.9	31.5	0	29.4	1290	35.6	33.5	0	27.2	1194	30.9	35.0		
	5	29.8	1310	36.6	34.5	5	27.3	1198	31.1	36.0	5	25.2	1108	27.0	37.5		
Tw1/Tw2 = 80/60°C	10	27.5	1207	31.6	37.0	10	25.1	1105	26.9	38.5	10	23.3	1022	23.3	40.0		
60/60 C	15	25.1	1104	26.8	39.5	15	23.0	1010	22.9	41.0	15	21.3	935	19.9	42.0		
	20	22.8	1000	22.4	42.0	20	20.8	915	19.1	43.5	20	19.3	847	16.6	44.5		
	0	27.1	1185	31.5	26.5	0	24.8	1084	26.8	28.0	0	22.9	1003	23.3	29.5		
Tw1/Tw2 =	5	24.8	1084	26.8	29.5	5	22.7	991	22.8	30.5	5	21.0	917	19.8	32.0		
70/50°C	10	22.4	981	22.4	32.0	10	20.5	897	19.1	33.0	10	19.0	830	16.6	34.5		
70/30 C	15	20.0	877	18.2	34.5	15	18.3	802	15.6	35.5	15	17.0	743	13.6	36.5		
	20	17.6	772	14.6	37.0	20	16.1	706	12.4	38.0	20	14.9	654	10.8	39.0		
	0	22.0	961	22.4	22.0	0	20.2	879	19.1	23.0	0	18.7	813	16.6	24.0		
Tw1/Tw2 =	5	19.7	859	18.3	24.5	5	18.0	786	15.6	25.5	5	16.7	727	13.6	26.5		
60/40°C	10	17.3	755	14.5	27.0	10	15.9	691	12.4	28.0	10	14.7	639	10.8	29.0		
00/40 C	15	14.9	650	11.1	29.5	15	13.6	595	9.5	30.5	15	12.6	550	8.3	31.0		
	20	12.5	543	8.1	32.0	20	11.4	497	6.9	33.0	20	10.6	460	6.0	33.5		

V – Air volume P_T – Heating capacity

T_{p1} – Inlet air temperature T_{p2} – Outlet air temperature

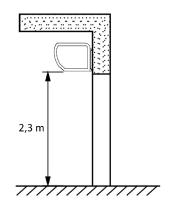
 T_{w1} – Inlet water temperature Tw2 - Outlet water temperature

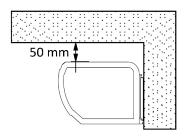
 Q_w – Water flow rate ΔP_w – Pressure drop of water

-install mounting plate on the wall

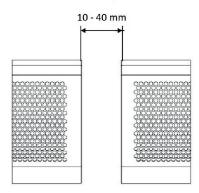
3.1. GENERAL PRINCIPLES

The following figures show the recommended distances between the air curtain and the building partition:





■ The width of the curtain should be greater or equal to the width of the door frame. 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



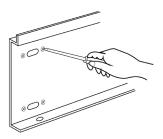
3.2. ASSEBLY "STEP BY STEP"

The curtain can be assembled on wall or ceiling. If any components are not included in the kit, you should buy them yourself and make sure they are suitable for this type of installation.

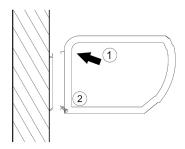
a) wall mounting

- unscrew the fixing screws to remove the mounting plate from the back of the $\operatorname{\mathsf{main}}\nolimits\operatorname{\mathsf{body}}\nolimits$



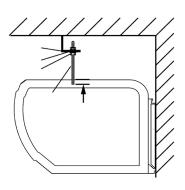


-install the main body. Set the main body onto the upper end of the mounting plate and clamp it as shown



b) ceiling mounting (using mounting studs)

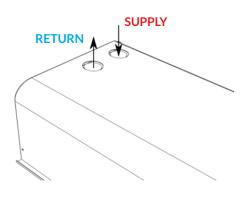
- -screw the mounting studs into four threaded holes (for min 20 mm)
- -install the unit using mounting studs to the ceiling



4. INSTALLATION INSTRUCTIONS

4.1. CONNECTION OF THE DEVICE TO THE HYDAULIC SYSTEM

- wires should be connected as shown in the figure below (power supply at the front, back at the back);



- it is recommended to use a filter on the curtain's hydraulic power supply
- it is recommended to use the following valves:
 - vent valve in the highest place on the hydraulic installation
 - cut off valve on the supply and return of the device
- the installation shall be protected against excessive pressure increase
- check the leak tightness of the hydraulic system before connecting the unit before plugging the electric supply.

4.2. CONNECTION OF THE DEIVCE TO THE ELECTRICAL SYSTEM

- all works concerning electrical installation should be made by the qualified personnel (who possess required authorizations to install electrical equipment), based on wiring schematic diagrams. (see 7)
- the electrical installation of the building shall have a residual current device
- check the electrical installation and automation before the first start

5. PRECAUTIONS AND WARNINGS

During operation of the device, the following must be respected:

- all works concerning electrical installation (disassembly, repair etc.) should be made by the qualified personnel, who possess the qualifications due to the domestic and local norms, regarding electrical installations
- -do not limit or cover the inlet and outlet of the device
- -do not install, service the device with wet hands or barefoot
- the device should be kept out of reach of children and animals
- when no need heating, turn off the heat source to use it as an unheated air curtain
- the device does not consist of the anti-frost protection. The temperature in the room, where device is installed, should not go below 0° C. If such situation could take place empty the device out of water
- after the turn off, the elements of device may be warm
- after operating time of the device, please utilize it concerning the local norms and regulations
- don't allow water or any liquid to enter the motor
- maintenance and repair work must be carried out by a qualified personnel familiar with local regulations and standards
- always unplug or disconnect the appliance from the power supply before installation, servicing or cleaning the unit
- never use petrol, benzene, thinners or any other chemicals for cleaning the unit
- periodic maintenance work should be carried out at least once a year by:
 - $\bullet\ cleaning\ the\ heat\ exchanger\ and\ other\ elements\ from\ dust$
 - $\bullet\ cleaning\, of\, plastic\, parts\, with\, water\, with\, the\, addition\, of\, soap$
 - cleaning the casing with a soft cloth
- the flow of the heating medium through the heat exchanger must be dependent on the fan operation (e.g. using a thermostatic valve) it is forbidden to keep the flow without the fan motor running
- if the device is not used for a longer time disconnect the voltage supply
- if any abnormality happens, turn off the product immediately and check the problem

6. CONTROLS

Usage of automatic control dedicated to the air water heaters of Reventon Group gives great possibilities of adjusting the efficiency of the curtain in different, depending on needs, degree of automation of its operation. We also offer additional controls:

3-stage speed regulator with thermostat HC-3S

Regulator is used to regulate devices equipped with 3-stage fans. It has a 3-stage speed control and built-in thermostat switches the device of automatically when the preset temperature is reached. In addition, the unit controls the operation of the actuators installed on the control valve.



Voltage/Frequency: 230 V AC / 50 - 60 Hz
Maximum current output: 3 A
Temperature range: 10°C - 30°C
Operating mode: ciagly lub termostatyczny
Control accuracy: <1°C
Dimensions: 130 x 85 x 40 mm
Weight: 210 g
Degree of casing's protection: IP 30

Programmable controller HMI

Controller is used to regulate devices equipped with 3-stage fans. It controls them according to set program (required air temperature). There is also opportunity to connect the external air temperature sensor (in the set). The controller automatically controls the actuator of two-way valve. It has MODBUS communication too.



Voltage/Frequency: 230 V AC / 50 - 60 Hz
Maximum current: 5 A
Operating temperature range: 0 - 45°C
Regulation range: 5°C - 35°C
Regulation accuracy: ± 0,5°C
External temperature sensor: NTC 10K
Communication: R\$485
Dimensions: 86 x 86 x 13,3 mm

Two-way valve with actuator $\frac{3}{4}$ " (installation on the return from exchanger)

The two-way valve with actuator is used to automatically regulate the flow of the heating medium.



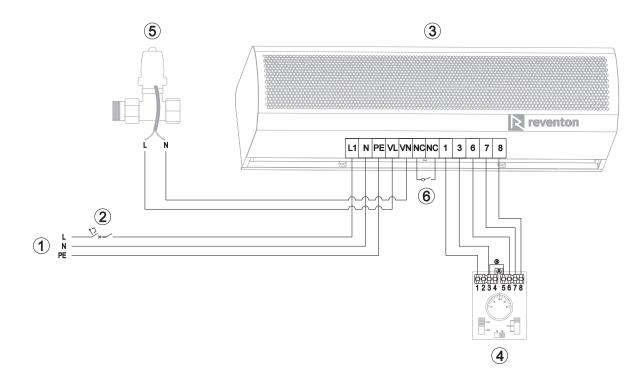
Voltage/Frequency: 230 V AC / 50 - 60 Hz
Total current: <0,25 A
Maximum operating temperature: 60°C
Closing time: 5 - 6 min
Adjustment stroke: 3,6 mm
Degree of protection: IP 40

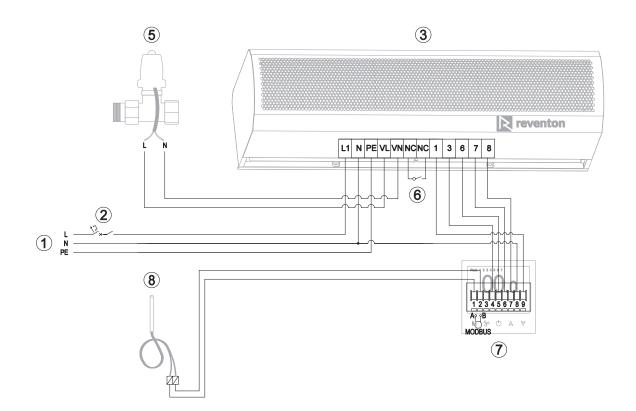
7. CONNECTION SCHEMES

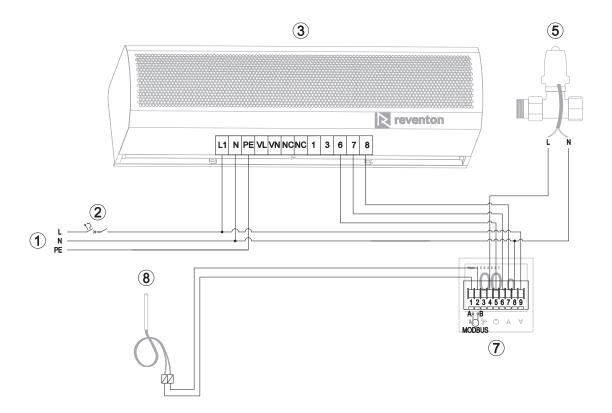
LEGEND:

- 1. Power
- 2. Main switch, overcurrent circuit breaker*
- 3. Water heated air curtain AERIS
- $4.3\text{-}stage\,speed\,controllers\,with\,thermostat\,HC3S}$
- A-work in continuous mode
- B-operation in thermostatic mode 5. Two-way valve with actuator HC ¾ "
- 6. Door switch
- 7. Programmable controller HMI
- $8.\,External\,temperature\,sensor$

 $^*Main\,switch\,and\,over current\,circuit\,breaker\,are\,not\,included\,in\,the\,device$







8. TERMS OF WARRANTY

- I. Reventon Group Sp. z o.o. [Ltd.] 3B Montazowa 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 2 (two) years:
- -water heated air curtain AERIS 100WN-1P
- -water heated air curtain AERIS 150WN-1P
- water heated air curtain AERIS 200WN-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 the warranty card. The spare parts will be supplied by the Reventon Group Sp. zo.o. during the warranty period.

V. In the exceptional cases, the manufacturer reserves the right to extend the time limit for examination of warranty, especially if the defect is not permanent and its determination requires a longer period of time. Any such extension must be notified by the manufacturer before the end of the 14th day (working).

- VI. Warranty does not cover the parts of the device subject to normal maintenance and the cases as below:
- a) mechanical damage of the product;
- b) defects and damages through:
- $\hbox{-}improper storage or transportation;\\$
- -improper use or maintenance not in accordance with the instructions;
- -using the device in the improper conditions (too high humidity, too high or too low temperature, impact of the surrounding, sun etc.);
- unauthorized (by the user or other unauthorized persons) repair, modification or construction changes;
- 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.

VII. Any changes in the Warranty Terms, improper use of the product (careless handling, exposure to liquids, moisture, corrosion), as well as traces of self-repairing (except for the Reventon Group manufacturer's service), alterations or attempts to make structural changes to the product, (revealed during the performance of warranty service), makes warranty not valid.

VIII. 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.

 $IX. \, Not following \, to \, any \, of \, warranty \, regulations \, makes \, the \, warranty \, not \, valid.$

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

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

actory number of the device:		Address and place of assembly :			
tamp and signature of the installation compar	ny:				
Varranty form					
The company reporting the complaint:	Date of asso	embly:	Address and place of assembly the device:		
	Date and ci	rcumstances of noticing the defect:			
The company installing the device:					
		I de al les a			
actory number of the device:	Date of dec	claration the complaint:			
Factory number of the device: Description of the defect:	Date of dec	claration the complaint:			
	Date of dec	claration the complaint:			

Service card

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





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