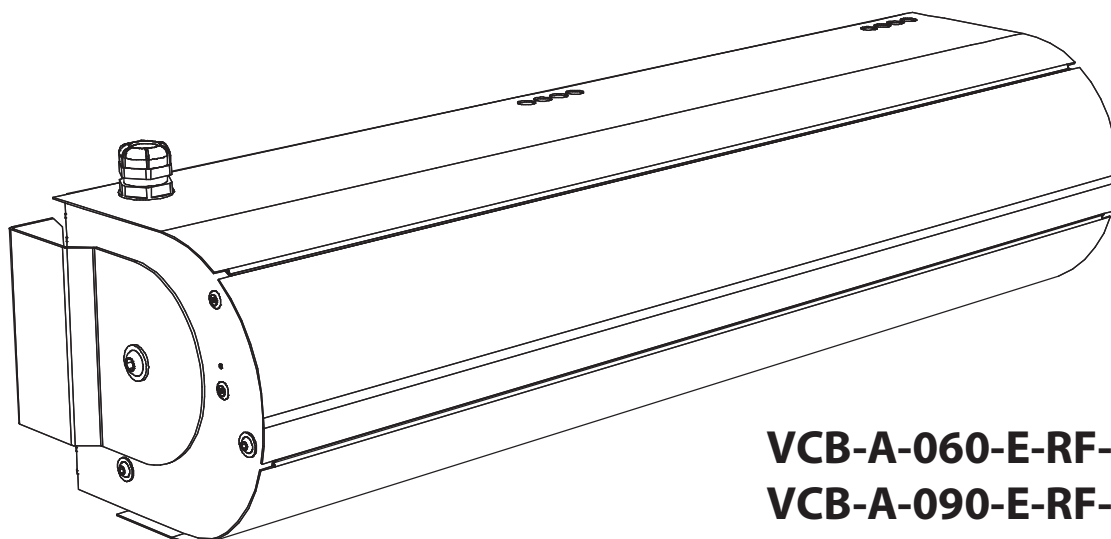







BASIC



VCB-A-060-E-RF-0-0
VCB-A-090-E-RF-0-0

1. BEFORE YOU BEGIN

Symbol		Meaning
	ATTENTION!	Warning or notice
	DO NOT MISS!	Important instructions
	YOU WILL NEED	Practical tips and information
	TECHNICAL INFORMATION	Further detailed technical information
		Reference to another section / part of the instruction manual



Before installation, thoroughly study the part **Safe use of air curtains**, where you will find all the instructions for the safe and correct use of the product.

This user's manual includes important instructions for the correct installation of an air curtain. Carefully read and adhere to all the following instructions before installing the air curtain! The manufacturer reserves the right to make changes including the technical documentation without prior notice. Keep the user's manual for future use. Consider the instructions in the user's manual as a part of the product.

EC Declaration of conformity

The product has been designed, manufactured and placed on the market, it meets all relevant provisions and is in compliance with the requirements of the following European Parliament and of the Council Directives including amendments. Under standard conditions and operation / installation as described in the user's manual, the product is safe to use. The harmonised european standards specified in the relevant EC Declaration of conformity were applied in the assessment of this product. You will find current and full version of the EC Declaration of conformity on the www.2VV.cz website.

This manual contains important instructions and safety notices. To ensure the correct operation and your own safety it is important to carefully read the following regulations before using the door heater and to adhere to them! Any kinds of modifications or adjustments made to the internal wiring are forbidden and will result in the warranty becoming void. We recommend the use of accessories supplied by us. In the event that non-original accessories or regulations are used then the product may be damaged. The manufacturer takes no responsibility for damages arising from the use of non-original accessories (regulation) or incorrectly used accessories (regulation).

2. UNPACKING

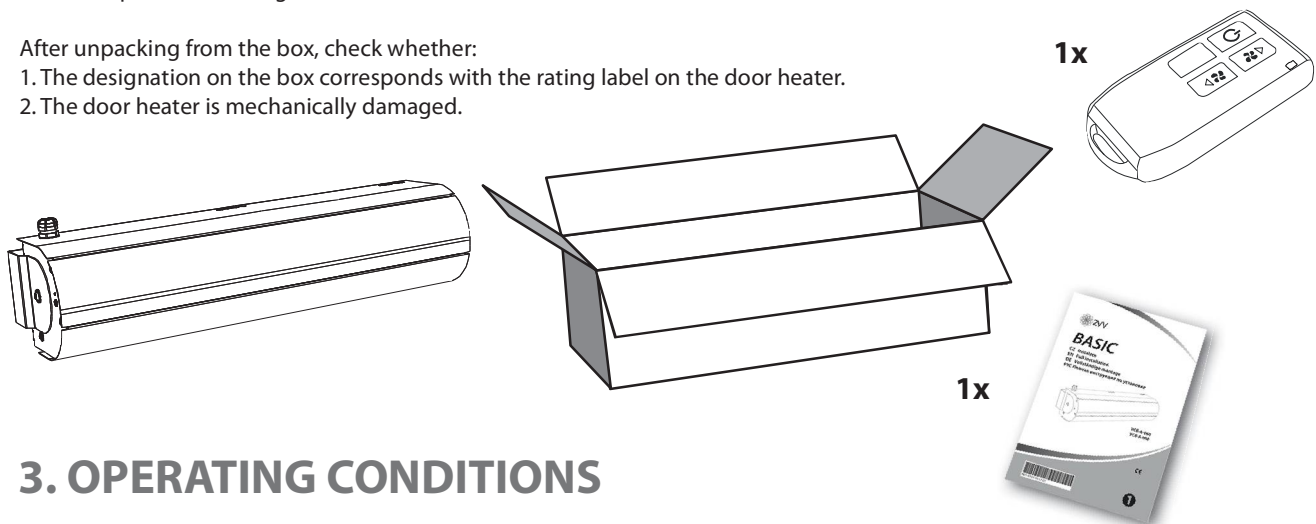
2.1 CHECK THE DELIVERY

DO NOT OVERLOOK

Check immediately after delivery that the packed product has not been damaged. If the packaging is damaged inform the carrier. If the complaint is not lodged in time, no future demands can be claimed.

After unpacking from the box, check whether:

1. The designation on the box corresponds with the rating label on the door heater.
2. The door heater is mechanically damaged.



3. OPERATING CONDITIONS

DO NOT OVERLOOK

- The compact heater is designed for transferring air free of coarse dust, fats, chemical vapours and other pollutants, etc.....
- The heater has an IP 20 protection class and can work in an environment with an ambient temperature of +5°C to +40°C.
- The suction inlet and the exhaust outlet must not be blocked by anything.
- Placing any items on to the body of the heater is not permitted.
- The electrical power socket must be located no further than 1.5 m from the heater.
- For the heater to operate properly, there must be at least 150mm of free space in front of the suction inlet cover.

4. TECHNICAL PARAMETERS

TECHNICAL INFORMATION

Type	Air power [m ³ /h]		Acoustic pressure [dB(A)]**		Voltage / Frequency [V/Hz]	Fan current [A]	Fan power input [W]	Heater power [kW]	Total consumption [A]	Total power input [kW]	Increasing air temperature Δt [°C]	Weight [kg]
	max speed	min speed	3m	5m								
VCB-A-060-E-RF-0-0	315	285	46,5	42,1	230 / 50	0,4	57,0	2,4	11	2,5	22,0	6
VCB-A-090-E-RF-0-0	475	410	48,5	44,0	230 / 50	0,7	87,0	3,1	14	3,2	19,0	8

** Acoustic pressure measured at 3 and 5 m away from the device at maximum motor speed. Direction coefficient Q:2.

5. INSTALLATION

The electric door heater offers a wide range of applications. Therefore it is possible to install this heater above the door, above the store windows and on the wall. For installation, follow the instructions provided below. Due to the fact that this is a heating device, basic heating rules should be adhered to. For the calculation of the heating source requirements it is necessary to include the heater among the heating sources of the building's heating system.

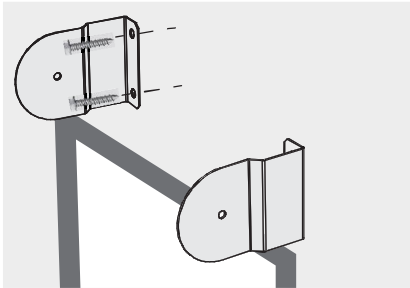
6. INSTALLATION

6.1 RULES FOR INSTALLATION

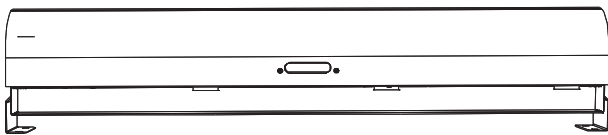
DO NOT OVERLOOK

- Minimum dimensions must be adhere to as shown in the picture.
- If you install the heater above a door, then try to locate it as close as possible to the top edge of the door. Make sure that the exhaust of the heater is not shielded by anything and that the airflow can travel freely into the room.
- The heater is connected to the mains power supply by means of a cable with a power plug, therefore make sure that the el. power socket is no further than 1.5 m from the heater.
- Wall mounted installation on dowels – not supplied with the product, fastening elements 4pcs of M8 bolts – not supplied with the product.

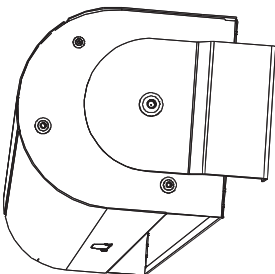
1. attach the brackets to the wall



2. attach the curtain to the brackets using bolts (are supplied with the product)

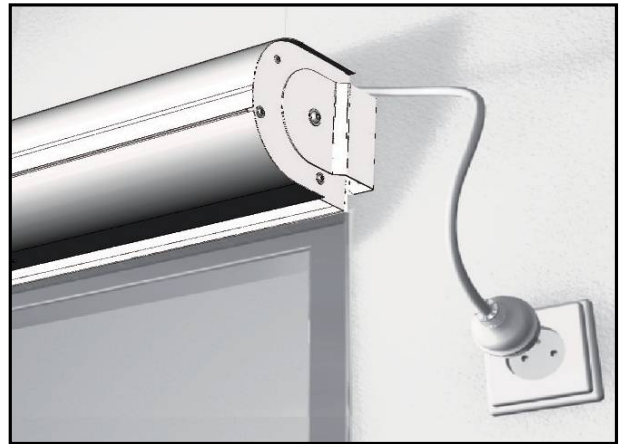
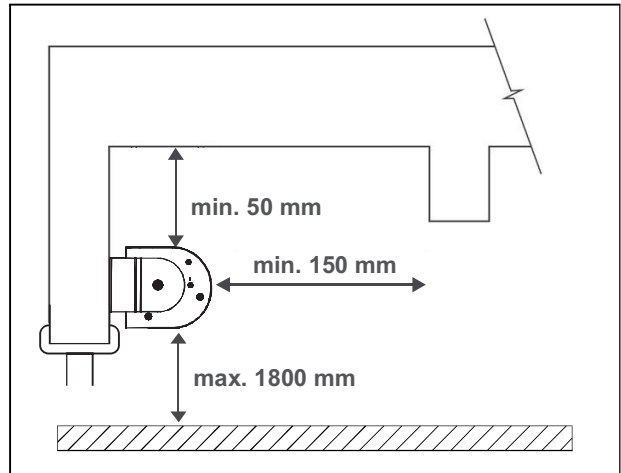


detail of the attachment of the heater to the bracket



YOU WILL NEED

For mounting the bracket, use a size 5 hex key.



DO NOT OVERLOOK

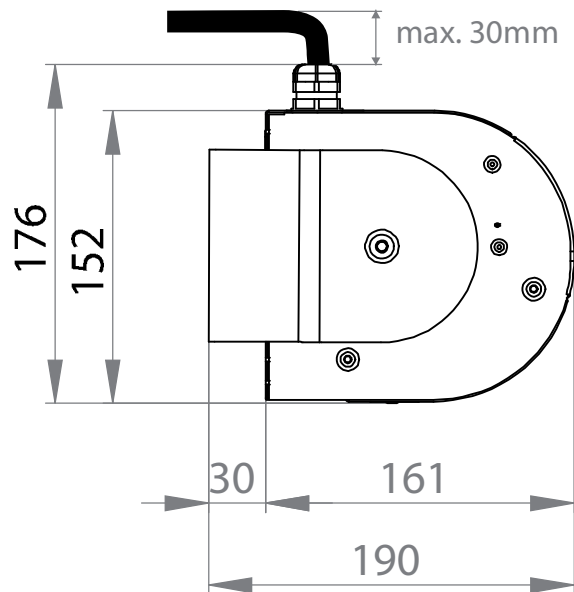
- Make sure that the exhaust of the heater is not shielded by anything and that the airflow can travel freely into the room.
- The heater is connected to the mains power supply by means of a cable with a power plug, therefore make sure that the el. power socket is no further than 1.5 m from the heater; the use of extension cables is not permitted.
- There must not be any flammable items within the minimum distance of 30cm from the unit in all directions.

6. INSTALLATION

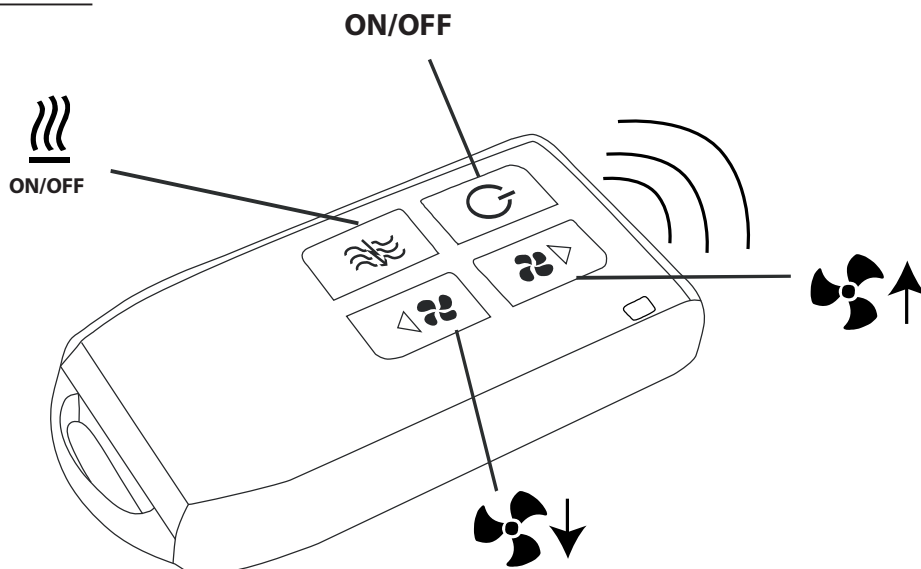
6.2 ELECTRICAL WIRING CONNECTION

DO NOT OVERLOOK

- The heater is connected using a cable with a power plug, which is a part of the unit.
- The electric power supply (power socket) into which the heater is connected must be protected by a circuit breaker of at least 16A.
- It is not possible to connect the heater using an extension cord.
- The maximum bend of the electric power cable is 30mm.



6.3 CONTROL PANEL



5.

Connecting the remote control

The remote control does not need to be paired, it is already factory set. **The remote control is powered using 12V battery (LR23A)**. (batteries are supplied with the product). Possibility pair up to 60 devices to a single control. RF signal range is up to 30m in open area.

7. SWITCHING ON FOR THE FIRST TIME

DO NOT OVERLOOK

Before starting the air curtain with an RF control module, check the following:

- Did you leave any tools or items inside the curtain which could damage it?
- There a corresponding el. power supply available including sufficient protection.
- Did you close the air curtain correctly?







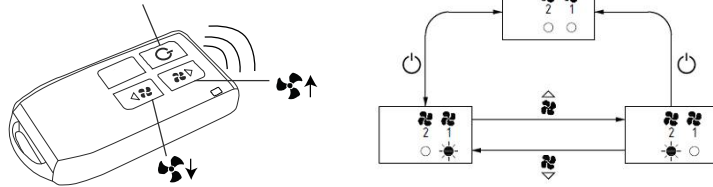
Carefully read the following chapter before connecting the air curtain.

8. CONTROLS






8.1 DESCRIPTION OF THE REGULATION AND ITS CONTROLS

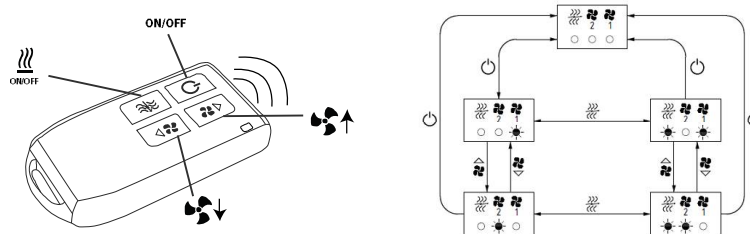
Air curtain without a heater:

Start the device by pressing the  button on the remote control. Then you can use the speed button  to increase or  to decrease fan speed. Selected fan speed is indicated by lights on the integrated control panel. Turn the device off again using the  button.



Air curtain with an el. heater:

Start the device by pressing the  button on the remote control. Then you can use the speed button  to increase or  to decrease fan speed. Use the  button to select whether the heater will be on or off. The operation of the fan and the electric heater is indicated by lights on the integrated control panel. Turn the device off again using the  button. When the device is turned off, it automatically performs aftercooling of the electric heating element for 30 seconds and then turns itself off. The aftercooling of the heat exchanger is indicated by a flashing speed 1 on integrated panel.



Programming (pairing):


This mode is active 30 seconds after power ON of unit (when there was no power supply before).

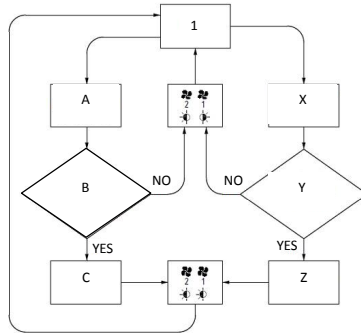
Press all four buttons on controller at least of 4 seconds. If unit will blinking with fan 1 and fan 2 speed simultaneously, then pairing was succesfull. If blinking is alternately, then controller is already paired, or there was reached maximum count of controllers (max. 60 controllers per unit).

8. CONTROLS


Clearing (un-pairing):

This mode is active 30 seconds after power ON of unit (when there was no power supply before).

Press buttons  simultaneously at least of 4 seconds. If unit will blinking with fan 1 and fan 2 speed simultaneously, then clearing was successful. If blinking is alternately, then controller was never paired with electronic and is not required clear process.




START

A – Press all buttons simultaneously at least of 4 seconds 

B – Controller is not paired with electronic board and also there is free space in memory of electronic?

C – Pairing successful!

X – Press  buttons simultaneously at least of 4 seconds

Y – Controller already paired?

Z – Clearing successful!

8.2 MALFUNCTION STATES

The main el. power cord must be disconnected whenever any work is performed on the air curtain. If you are not certain that what you are doing is correct, never start doing any repairs and call a professional service!!!

Behaviour of the device	Assumed problem	Solution
The device does not work	Interrupted el. power supply	Check that the el. power supply has not been interrupted
The remote control doesn't work	The curtain is not receiving a control signal from the remote control	Check whether the batteries in the controls are flat. Check the polarity of the batteries in the remote control. Check whether the remote control is too far away from the curtain or its signal is being affected by interference.
The heating turns itself off independently	The heater is overheating	The electric heater is overheating due to insufficient air flow. Check whether the fans are running at full speed and that the air supply into the device is not blocked.

9. MAINTENANCE

ATTENTION!

Before carrying out any work inside the air curtain, the main power input must be disconnected. The air curtain must be allowed to cool down!

9.1 CLEANING

ATTENTION!

- It is forbidden to use compressed air, chemicals, solvents or water for cleaning.
- Use a fine brush or vacuum cleaner to clean out the suction inlet cover.
- For cleaning, use a damp cloth and non-aggressive cleaning products. Adhere to workplace safety.

10. SERVICE

10.1 IF YOU CANNOT FIX THE PROBLEM YOURSELF

If you were unable to fix the problem, contact the supplier or an exclusive 2VV distributor. The warranty and post-warranty service is carried out by the supplier or one of the authorised service organisations, their list is available at the supplier.

Provide the supplier or the service centre with the following information:

- **model number of the air curtain,**
- **used accessories,**
- **installation location,**
- **serial number,**
- **installation conditions (also electrical)**
- **time of operation,**
- **a detailed description of the fault.**

10.2 PUTTING PRODUCTS OUT OF OPERATION – DISPOSAL

Before disposing of the product make it unusable. Old products also contain materials, which can be recycled. Hand them over to a recycling collection point. It is better to have the product disposed of at a location that specialises in this activity, which will then be able to use the recyclable materials. Hand over the unusable parts of the product to a managed waste facility.



When disposing of the materials it is necessary to adhere to relevant national waste disposal regulations.

11. CONCLUSION

11. CONCLUSION

After installing the air curtain, carefully read this manual in detail. If anything is unclear or you have questions, do not hesitate to contact our sales or technical support department.

CONTACT

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