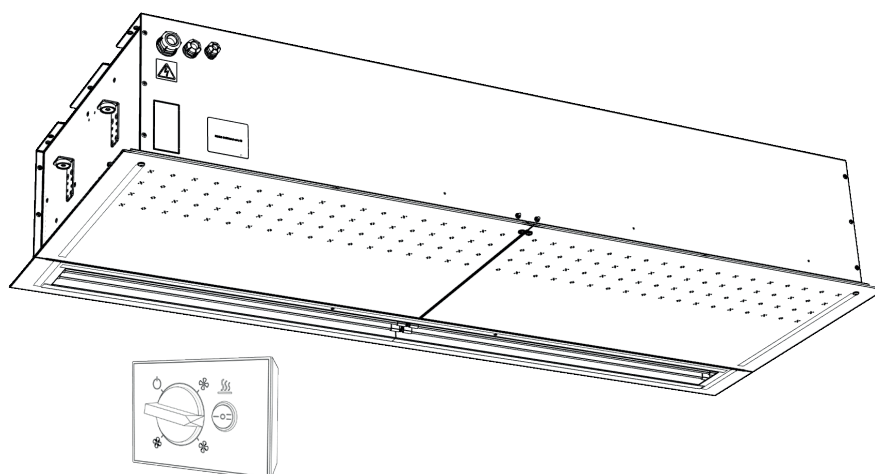




PARTNER  
IN VENTILATION  
2VV.CZ

EN

# FINESSE (VCFI5) BASIC EC /AC



## INSTALLATION AND OPERATION








4-118-0442



# 1. BEFORE YOU BEGIN

Meaning of symbols in the manual:

SYMBOL	MEANING
 <b>ATTENTION!</b>	Warning or notice
 <b>READ CAREFULLY!</b>	Important instructions
 <b>YOU WILL NEED</b>	Practical tips and information
 <b>TECHNICAL INFORMATION</b>	Detailed technical information
	Reference to another point/section of the manual



Before installing, read carefully the section **Safe use of the air curtains**, where you will find all the instructions for the safe and proper use of the product.

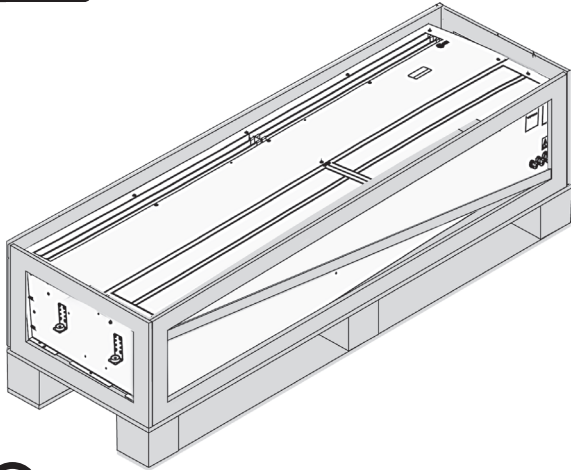
This manual includes important instructions for the appropriate installation of the air curtains. Before installing, read carefully all the following instructions and observe them. The manufacturer reserves the right to change, including the technical documentation, without prior notice. Keep the manual for future use. The instructions herein are part of the product

## Declaration of conformity

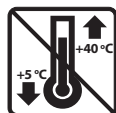
Details can be found at [www.2vv.cz/en/](http://www.2vv.cz/en/)

## 2. UNPACKING

### 2.1 CHECK THE SHIPMENT



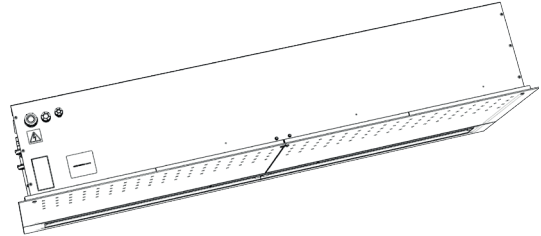
- After delivery, immediately check to see if the packaged product is damaged. If the packaging is damaged contact the delivery service. If the complaint is not filed in time, your claim may not be valid later.
- Check to see if it is the same product you ordered. If there are any discrepancies, do not unpack the curtain, and immediately report the defect to the supplier.
- After unpacking, check to see if the curtain and other parts are in order. If you have any doubts, contact the supplier.
- Never install a damaged air curtain!
- If you do not unpack the curtain immediately after delivery, it must be stored in a dry indoor environment with an ambient temperature between **+5 °C and +40 °C**



	<p>All the packaging material is environmentally friendly and can be reused or recycled. Contribute actively to the protection of the environment and ensure the proper disposal or recycling of the packaging materials.</p>	
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### 2.2 CONTENTS

1x



1x



1x

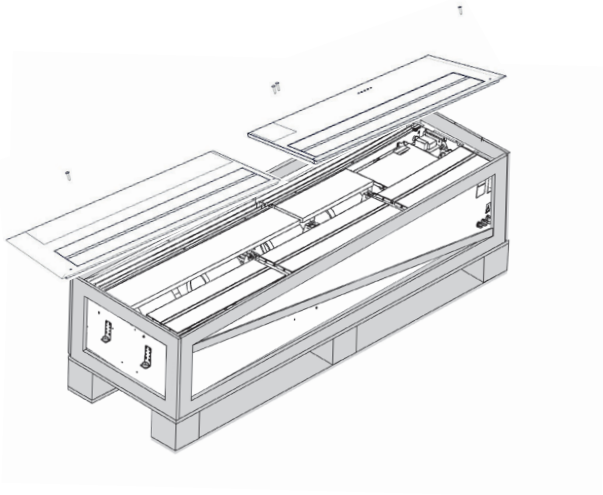


## 2.3 UNPACK THE AIR CURTAIN

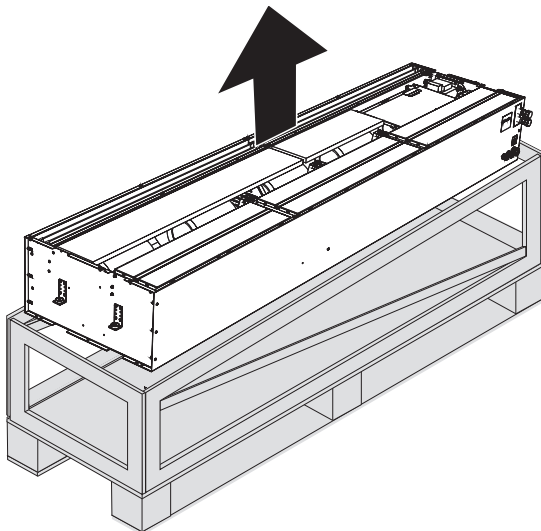


Caution! Before removing the curtain from the board, remove the cover.

1.

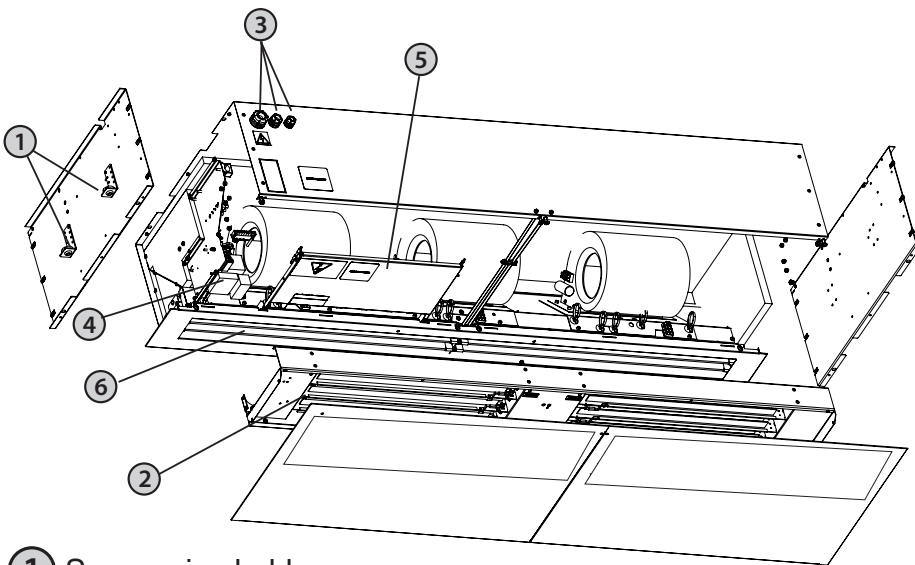


2.



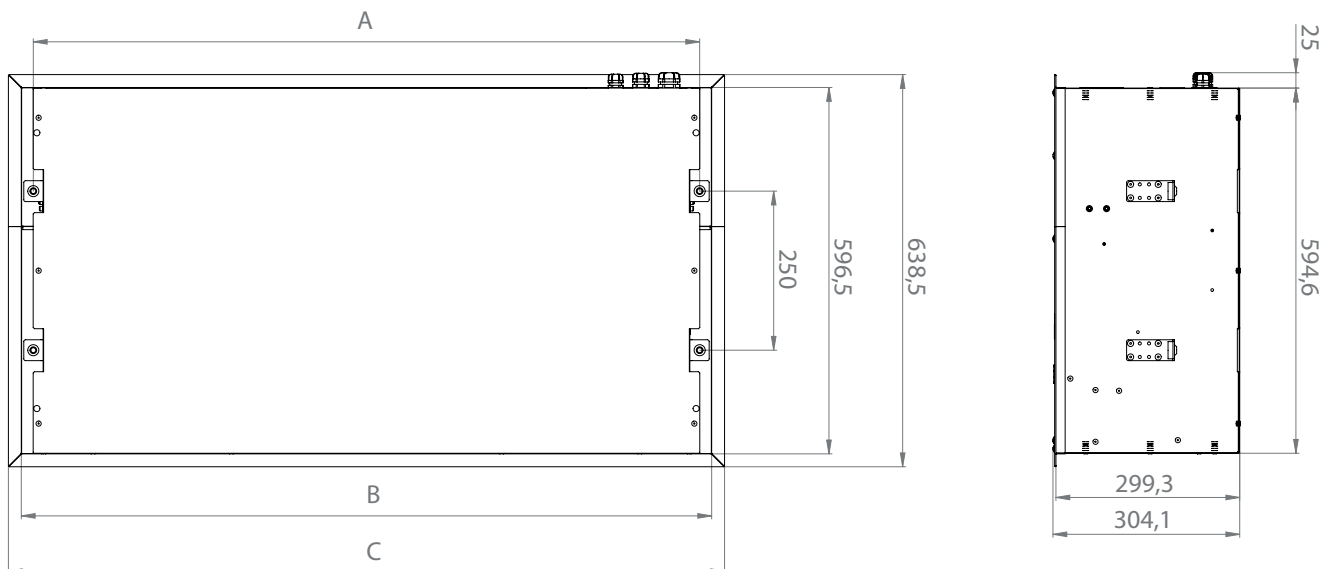
- If the curtain has been transported at temperatures below **0 °C**, it will be necessary to let it sit for at least **2 hours** under normal operating conditions after unpacking, without turning it on. This will allow the air curtain's interior temperature to stabilise.

### 3. MAIN PARTS



- ① Suspension holders
- ② Electric heater/water/without
- ③ Power supply cable plug
- ④ Power supply connectors and fuse location
- ⑤ Control modul
- ⑥ Outlet grid

### 4. DIMENSIONS



Type	Spacing of installation holes A [mm]	Length B [mm]	Length of cover C (mm)
VCFI5-x-100-x...	1085	1124	1166
VCFI5-x-150-x...	1585	1624	1666
VCFI5-x-200-x...	2085	2124	2166
VCFI5-x-250-x...	2465	2504	2546

## 5. TECHNICAL PARAMETERS

### VCFI5 AC

Type	Heater power output [kW]		Total power input [kW] <sup>*1</sup>	Total voltage/ current [V/A]	Motor voltage/ current [V/A]	Temperature increase Δt [°C]	Frequency [Hz]	Weight [kg] <sup>*4</sup>
	1st level	2st level						BA
VCFI5B100-S0AC	-	-	0,63	230/2,75	230/2,75	-	50	37
VCFI5B150-S0AC	-	-	0,9	230/4,0	230/4,0	-	50	51
VCFI5B200-S0AC	-	-	1,2	230/5,3	230/5,3	-	50	66
VCFI5B250-S0AC	-	-	1,5	230/6,5	230/6,5	-	50	80
VCFI5B100-E1AC	4,6	9,4	10,1	400/16,3	230/2,75	15,6 <sup>*1</sup>	50	39
VCFI5B150-E1AC	7,6	15	16	400/26,1	230/4,0	17,2 <sup>*1</sup>	50	54
VCFI5B200-E1AC	9,8	19	20,5	400/32,4	230/5,3	16,4 <sup>*1</sup>	50	71
VCFI5B250-E1AC	12,5	24,5	26,1	400/42,2	230/6,5	17,4 <sup>*1</sup>	50	85
VCFI5B100-V2AC	21,3 <sup>*2</sup>		0,63	230/2,75	230/2,75	38 <sup>*2</sup>	50	41
VCFI5B150-V2AC	31,6 <sup>*2</sup>		0,9	230/4,0	230/4,0	38 <sup>*2</sup>	50	56
VCFI5B200-V2AC	43,4 <sup>*2</sup>		1,2	230/5,3	230/5,3	38 <sup>*2</sup>	50	73
VCFI5B250-V2AC	53 <sup>*2</sup>		1,5	230/6,5	230/6,5	38 <sup>*2</sup>	50	87

### VCFI5 EC

Type	Heater power output [kW]		Total power input [kW] <sup>*1</sup>	Total voltage/ current [V/A]	Motor voltage/ current [V/A]	Temperature increase Δt [°C]	Frequency [Hz]	Weight [kg] <sup>*4</sup>
	1st level	2st level						BA
VCFI5B100-S0EC	-	-	0,36	230/2,4	230/2,4	-	50/60	32
VCFI5B150-S0EC	-	-	0,54	230/3,5	230/3,5	-	50/60	43
VCFI5B200-S0EC	-	-	0,71	230/4,4	230/4,4	-	50/60	56
VCFI5B250-S0EC	-	-	0,85	230/5,4	230/5,4	-	50/60	65
VCFI5B100-E1EC	4,6	9,4	9,77	400/16	230/2,4	14,7 <sup>*</sup>	50/60	36
VCFI5B150-E1EC	7,6	15	15,54	400/25,2	230/3,5	16 <sup>*</sup>	50/60	47
VCFI5B200-E1EC	9,8	19	19,71	400/31,9	230/4,4	14,9 <sup>*</sup>	50/60	63
VCFI5B250-E1EC	12,5	24,5	25,35	400/40,8	230/5,4	15,5 <sup>*</sup>	50/60	75
VCFI5B100-V2EC	22,8 <sup>*2</sup>		0,35	230/2,4	230/2,4	35 <sup>*2</sup>	50/60	36
VCFI5B150-V2EC	35,0 <sup>*2</sup>		0,52	230/3,3	230/3,3	36 <sup>*2</sup>	50/60	47
VCFI5B200-V2EC	47,2 <sup>*2</sup>		0,73	230/4,3	230/4,3	36 <sup>*2</sup>	50/60	63
VCFI5B250-V2EC	58,0 <sup>*2</sup>		0,84	230/5,3	230/5,3	36 <sup>*2</sup>	50/60	76
VCFI5C100-S0EC	-	-	0,55	230/3,5	230/3,5	-	50/60	35
VCFI5C150-S0EC	-	-	0,72	230/4,4	230/4,4	-	50/60	45
VCFI5C200-S0EC	-	-	0,90	230/5,3	230/5,3	-	50/60	60
VCFI5C250-S0EC	-	-	1,20	230/7,3	230/7,3	-	50/60	69
VCFI5C100-E1EC	4,6	9,4	9,96	400/17	230/3,5	11,6 <sup>*</sup>	50/60	38
VCFI5C150-E1EC	7,6	15	15,72	400/26	230/4,4	12,3 <sup>*</sup>	50/60	50
VCFI5C200-E1EC	9,8	19	19,90	400/32	230/5,3	10 <sup>*</sup>	50/60	67
VCFI5C250-E1EC	12,5	24,5	25,7	400/42	230/7,3	11,4 <sup>*</sup>	50/60	79
VCFI5C100-V2EC	22,8 <sup>*2</sup>		0,53	230/3,5	230/3,5	31 <sup>*2</sup>	50/60	38
VCFI5C150-V2EC	35,0 <sup>*2</sup>		0,71	230/4,2	230/4,2	32 <sup>*2</sup>	50/60	50
VCFI5C200-V2EC	47,2 <sup>*2</sup>		0,90	230/5,4	230/5,4	33 <sup>*2</sup>	50/60	67
VCFI5C250-V2EC	58,0 <sup>*2</sup>		1,20	230/7,3	230/7,3	36 <sup>*2</sup>	50/60	80
VCFI5C100-V6EC	13,2 <sup>*3</sup>		0,53	230/3,4	230/3,4	16 <sup>*3</sup>	50/60	43
VCFI5C150-V6EC	18,7 <sup>*3</sup>		0,71	230/4,4	230/4,4	17 <sup>*3</sup>	50/60	60
VCFI5C200-V6EC	24,9 <sup>*3</sup>		0,85	230/5,3	230/5,3	17 <sup>*3</sup>	50/60	79
VCFI5C250-V6EC	32,9 <sup>*3</sup>		1,18	230/7,3	230/7,3	17 <sup>*3</sup>	50/60	97

<sup>\*1</sup> At the maximum air flow and maximum heater power.

<sup>\*2</sup> Intake air temperature +18°C, water temperature gradient of 90/70 °C and highest fan speed.

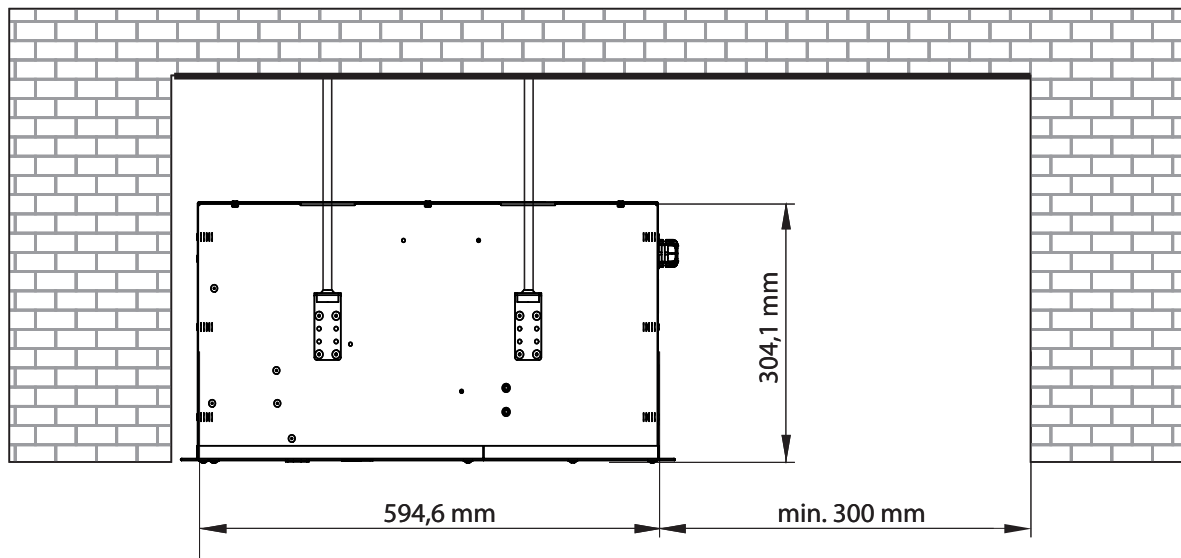
<sup>\*3</sup> Intake air temperature +18°C, water temperature gradient of 40/30 °C and highest fan speed.

<sup>\*4</sup> Weight with control BASIC.

## 6. INSTALLATION

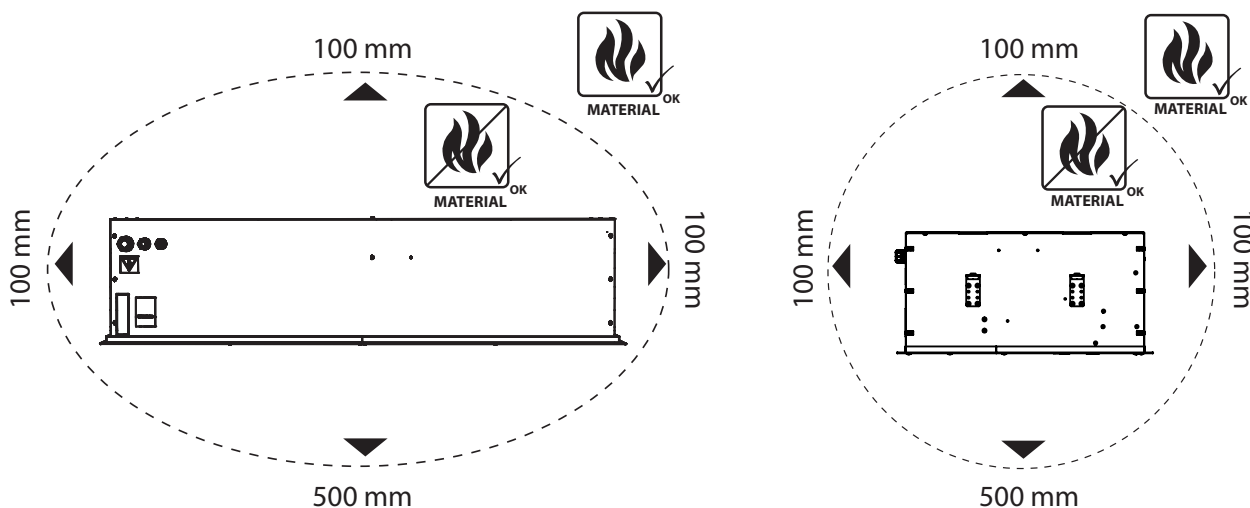
### 6.1 CHOOSE THE INSTALLATION SITE AND INSTALL THE AIR CURTAIN

#### 6.1-1 Built up dimensions



- The air curtain must be installed only in a horizontal position!
- The curtain can be installed over the door opening. All separation distances for flammable materials and safe use of air curtain has to be kept.
- The installed position of the air curtain can be chosen to accommodate the service hood.
- It must be operated in dry, covered indoor spaces with an ambient temperature between +5° C and +40° C and relative humidity up to 80%
- The air curtain is not intended for moving air that contains combustible or explosive mixtures, chemical fumes, coarse dust, soot, grease, poisons, infectious germs, etc.

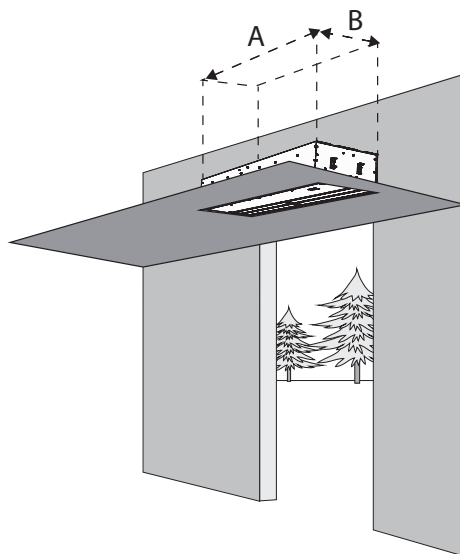
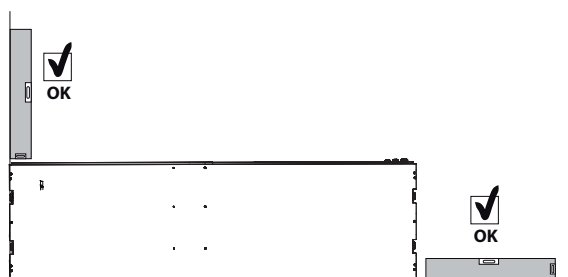
#### 6.1.-2 Clearance distance



## 6. INSTALLATION

### 6.1-3 Measure the installation site

- Only nonflammable materials (those that do not burn, smoulder or carbonise) or fire-resistant materials (those that do not burn, but mainly smoulder, e.g., plaster board) can be kept within 100 mm in any direction of the air curtain. However, these materials should not block the intake or outlet openings.
- For air curtains with an electric heater, safe distances from building structural surfaces and flammable objects are as follows:
- The safe distance for flammable materials in the direction of the main air flow (i.e., behind the outlet) is 500 mm,
- The safe distance for flammable materials above the air curtain is 500 mm,
- The safe distance for flammable materials in other directions is 100 mm.



Recommended size of ceiling aperture for inserting the curtain:

Type	A [mm]	B [mm]
VCFI5x-100-x...	1140	620
VCFI5x-150-x...	1640	620
VCFI5x-200-x...	2140	620
VCFI5x-250-x...	2520	620

- Air curtain is fixed to the ceiling by 4 threaded rods, which are not included delivery.
- It is necessary to ensure proper in the supply at the site according to the exact type of use of the air curtain and based on its electric parameters.
- When using water heated air curtain, please ensure connection of the flow and return pipes.
- It is necessary to cut or otherwise make a hole according to the hereunder mentioned dimensions
- Drill four holes into the ceiling construction according to the dimensions scheme (see “Dimensions”) for hanging of the air curtain to 4 anchoring points.
- Screw the air curtain directly to the ceiling without any space between its casing and ceiling, or use four threaded bars to reach the required distance from the ceiling, according to the situation on the site (see “Conditions for safety and proper function of the air curtain”).

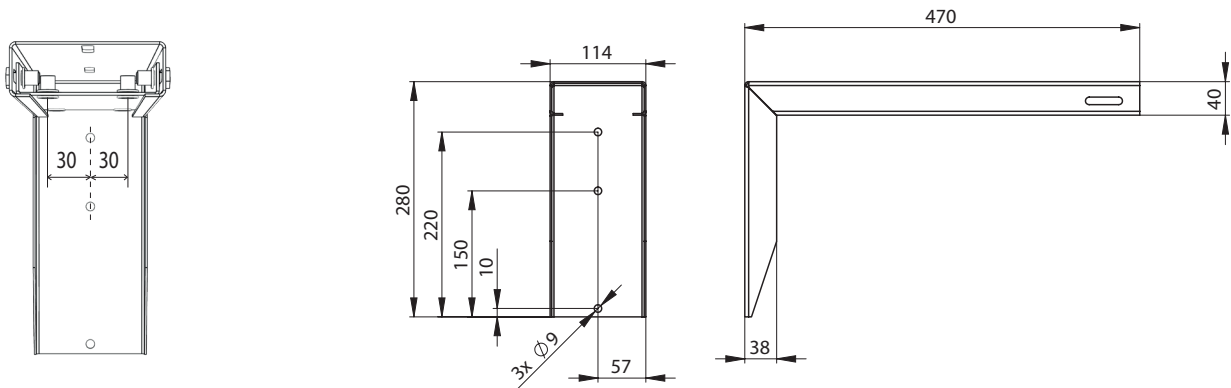


## 6. INSTALLATION

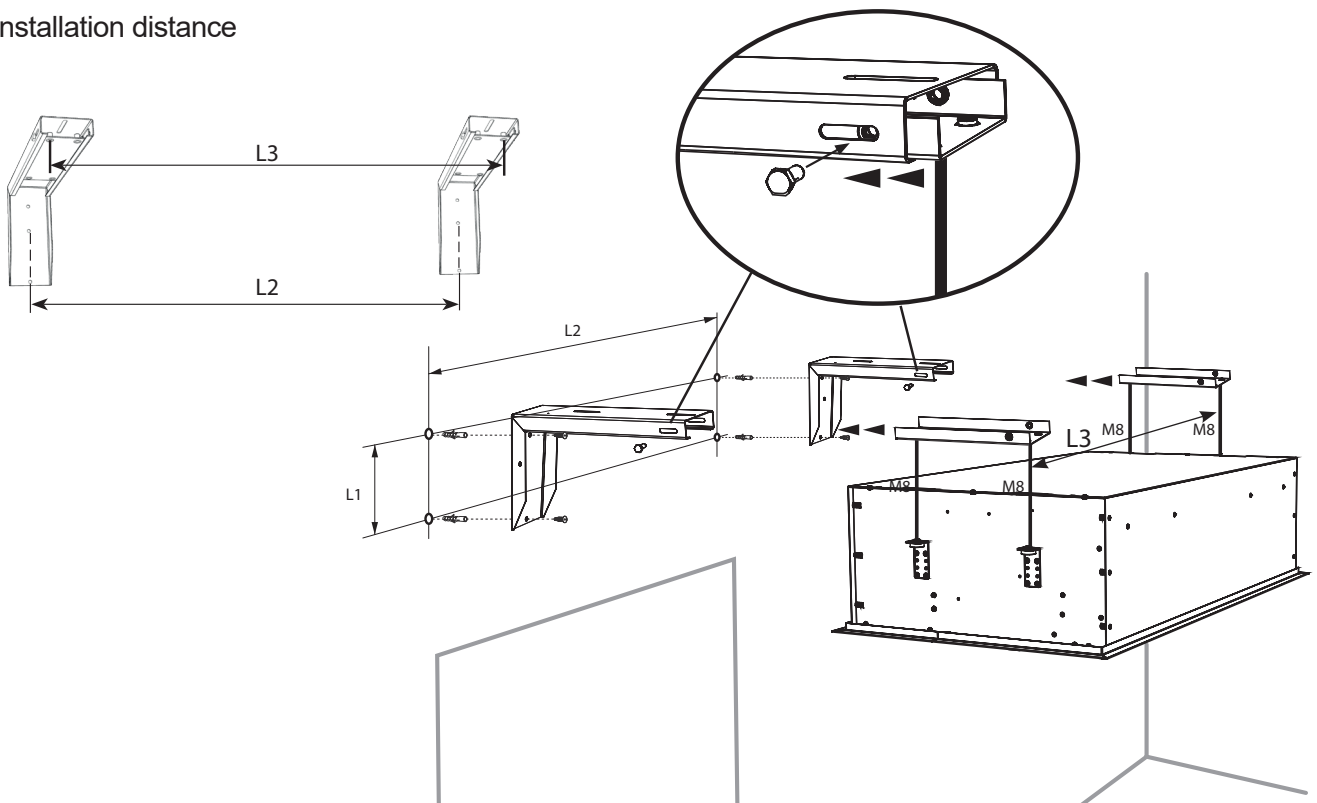


For wall installation use Wall mounted bracket set: VCS4-KONZ-STE. Wall mounted bracket has to be ordered separately as an optional accessory.

Size of bracket VCS4-KONZ-STE



Installation distance

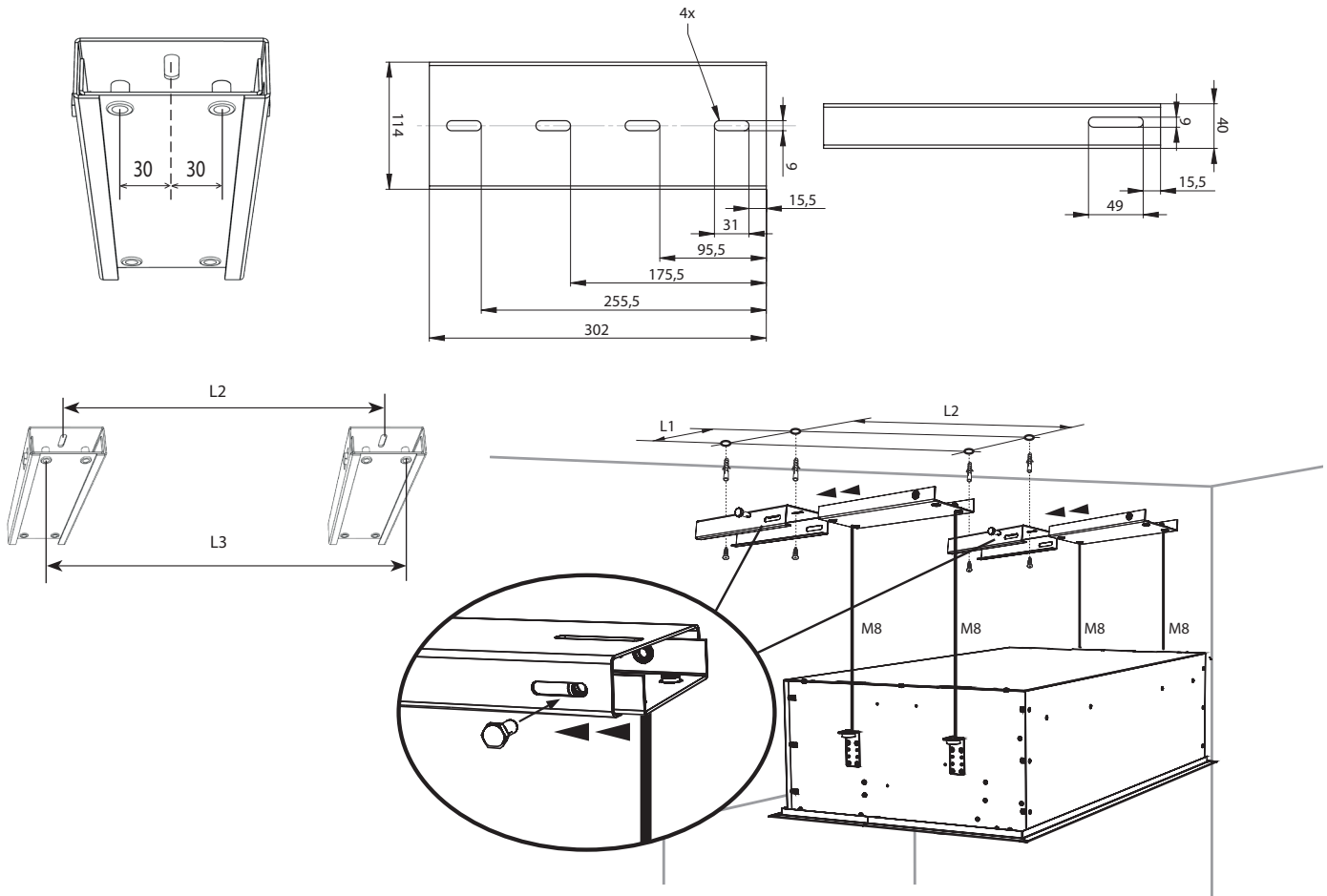


Type	L1 [mm]	L2 [mm]	L3 [mm]
VCFI5x-100-x...	250	1025	1085
VCFI5x-150-x...	250	1525	1585
VCFI5x-200-x...	250	2025	2085
VCFI5x-250-x...	250	2405	2465

## 6. INSTALLATION



For ceiling installation use Ceiling holder SET: VCS4-KONZ-STR. Ceiling holder SET has to be ordered separately as an optional accessory.



Type	L1 [mm]	L2 [mm]	L3 [mm]
VCFI5x-100-x...	250	1025	1085
VCFI5x-150-x...	250	1525	1585
VCFI5x-200-x...	250	2025	2085
VCFI5x-250-x...	250	2405	2465

### 6.1-4 Suspend the air curtain on the threaded bars and ensure that the suspension will not come loose



- In consideration of the air curtain weight into account, it is necessary to use either a suitable lifting device (forklift, etc.) or use two additional individuals to support it, as long as it is not securely fastened.
- Suspension has to carry the weight of the air curtain!

## 6. INSTALLATION

### 6.2 CONNECT THE WATER INTAKE AND OUTLET HOSES

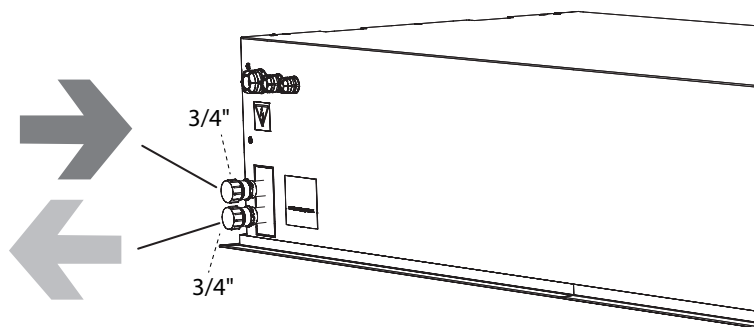
VCFI5x-xxx-V(W)-...



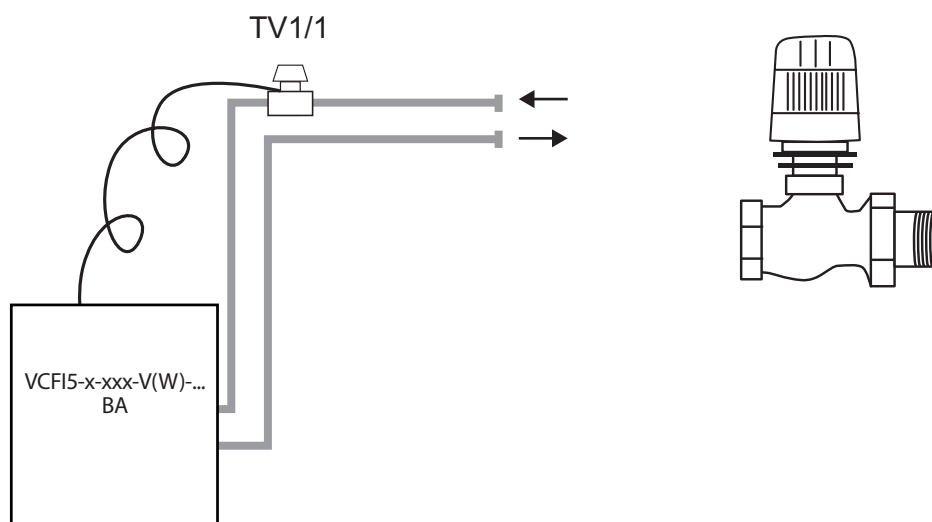
- A flexible hoses with a G3/4" connection



- Connection and pressure testing of the heater must be carried out by a person with professional plumbing knowledge, who must observe current standards and regulations of the given country.
- The maximum water temperature is +100° C. The maximum pressure is 1.6 MPa. We recommend installing a stop valve on the intake and outlet of the heater to allow the water supply to be shut off .



#### 6.2-1 Regulating the water coil with a thermostatic valve **TV1/1**



Thermostatic valve TV1/1 is accessorie for control module BASIC



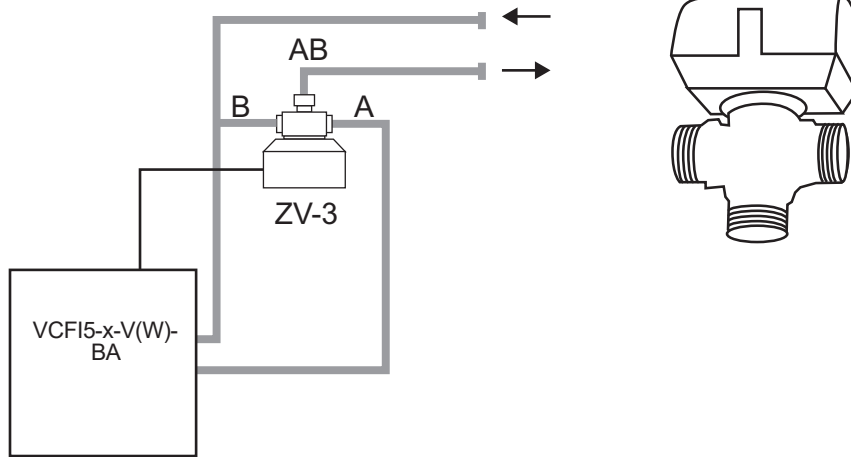
Detailed description of water coil regulation by thermostatic valve (TV1/1), including it's connection, refer the instruction manual for thermostatic valve TV1/1.

## 6. INSTALLATION

### 6.2-2 Regulating the water coil with a ZV3-230 or RT zone valve



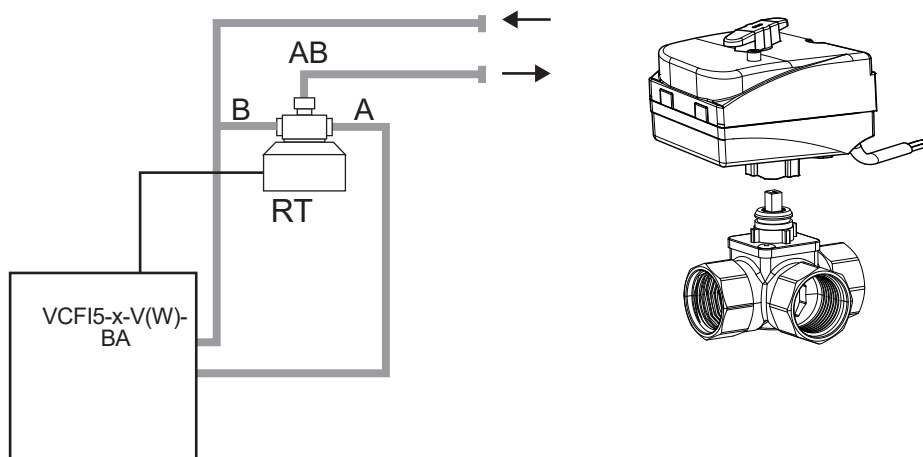
Zone valve **ZV3-230** is an required accessorie for control module BASIC.  
For air curtain with water heat exchanger and BASIC control module with a jumper between GND and Tx.



- Detailed description of water coil regulation by zone valve (ZV3-230), including it's connection, refer the instruction manual for zone valve ZV3-230.



Zone valve **RT** is an required accessorie for control module BASIC.  
For air curtain with water heat exchanger and BASIC control module with a jumper between GND and Tx.



- Detailed description of water coil regulation by zone valve (RT), including it's connection, refer the instruction manual for zone valve RT.

## 6. INSTALLATION

### 6.3 ELECTRO INSTALLATION



- The air curtain's electrical connection must be based on a professional design by a qualified electrical systems engineer.
- Installation must be carried out by a professionally trained electrical worker. All applicable national regulations and directives must be observed.
- The electrical schematics on the product take priority over those presented in this manual!
- Prior to installation, check to see if the terminal markings correspond to the markings on the electrical connections diagram. When in doubt, contact your supplier and do not connect the air curtain under any circumstances.
- Never reach inside the air curtain unless the main electrical supply has been turned off !
- If the product is connected to any control system other than the original one, the regulation and measurement components must be connected by the company that supplied the system.
- The electrical contractor defines the minimum size of the feed cable according to the standards applicable at the place of installation, the location for installing the cable, the surrounding conditions, and the curtain's technical parameters.



- **Special attention should be paid to the capacity of the distribution network of the air curtain with electric heater in terms of the supply of the appropriate phase current values for limiting the voltage fluctuations and flickering in the network.**

The minimum cable dimensions must be used in accordance with the technical values indicated on the product label and in accordance with the applicable laws and regulations of the country.

The cable type:

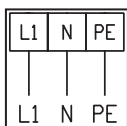
Type	Cable
VCFI5-xxx-S...	3Cx...
VCFI5-xxx-V...	3Cx...
VCFI5-xxx-W...	3Cx...
VCFI5x-100-E...	5Cx...
VCFI5x-150-E...	5Cx...
VCFI5x-200-E...	5Cx...
VCFI5x-250-E...	5Cx...

Fuse specification:

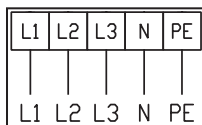
VCFI5-x-xxx...		x	
		B	C
xxx	100	3,15A	5A
	150	4A	6,3A
	200	6,3A	8A
	250	8A	12A

## 6. INSTALLATION

VCST5-xxx-S / V

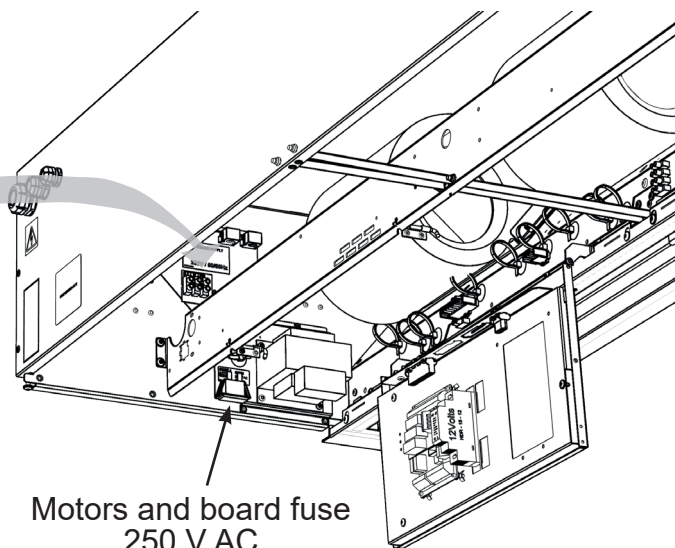


VCST5-xxx-E



The electrical parameters are shown on the manufacturer's label, which is located under the air curtain's service cover.

Air curtain Type	
U = Voltage	I = Net current
f = Frequency	P = Output
n = Speed	m = Weight
ph = Phase	IP = IP rating
av = Air output	ver =
Serial number	



Motors and board fuse  
250 V AC  
5x20 T<sub>xx</sub>A

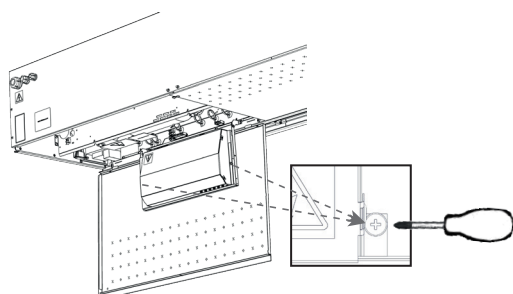
- The air curtain must be protected by an appropriate circuit breaker, in accordance with its electrical parameters. For safety reasons, over-designed protection is not recommended.
- The air curtain must be connected using the TN-S system, which means that the neutral conductor must always be connected.
- A main cut-off switch must be placed in the electrical supply network, disconnecting all poles of the network.
- The electrical enclosure of the air curtain is IP 20.



FINESSE air curtains are equipped with a fuse (with T characteristic – slow-blow). This safety fuse protects the electronic panel and fans. It is located under the service cover next to the main power supply connectors.

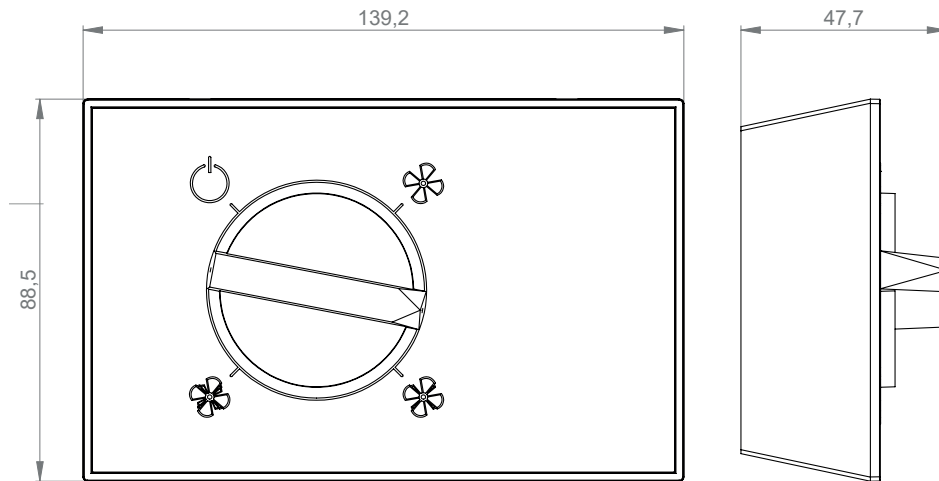
### 6.4 CONNECTION THE CONTROL PANEL

Unscrew the screws and open the regulation cover

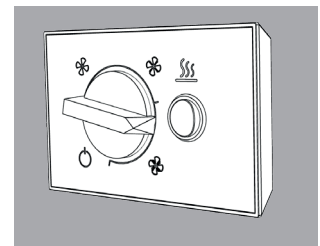
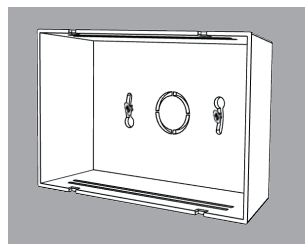
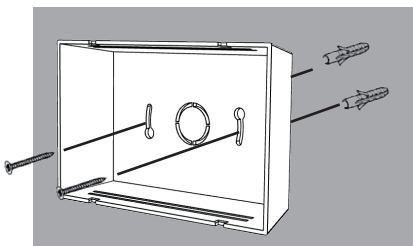
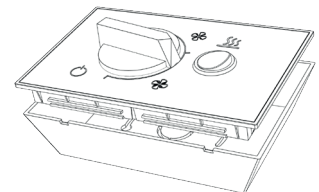
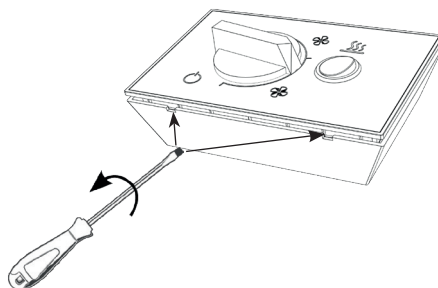
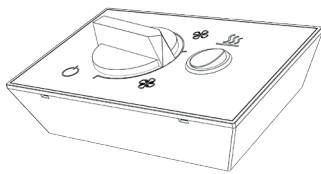


## 6. INSTALLATION

### DIMENSION



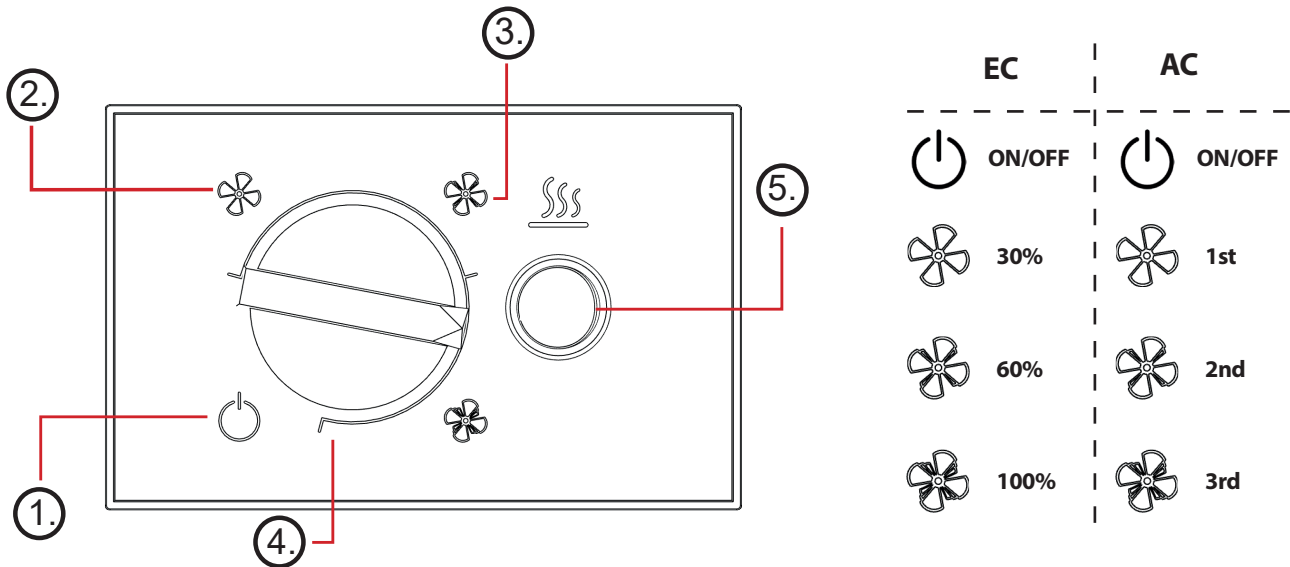
### INSTALLATION OF CONTROL PANEL



*The controller can only be installed on a wall or on a fixed non-portable object.  
The cable must be secured against being pulled out of the controller..*

## 6. INSTALLATION

### CONTROL



1	OFF - fan OFF, heating not active
2	Low fan speed, heating enabled (heating level 1 enabled)
3	Medium fan speed, heating enabled (heating level 1 and 2 enabled)
4	High fan speed, heating is enabled (heating level 1 and 2 enabled)
5	Heating switch (water heater = heating level 1, electric heater = heating level 1 and 2)

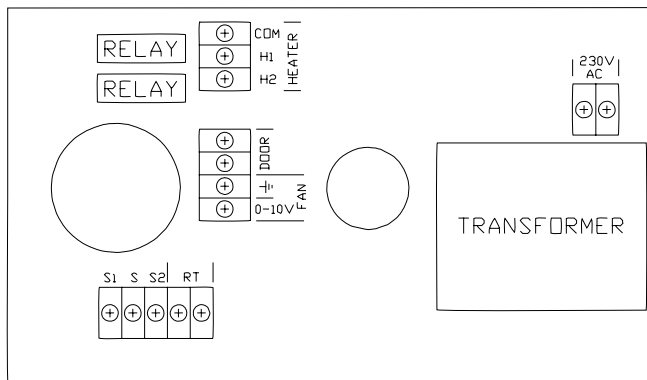


## 6. INSTALLATION

### BASIC EC DESCRIPTION

#### Controls description:

- Control EC motors with 0-10V continuous output
- Control heating output in the range of OFF / Stage 1 / Stage 2 using potential-free relay outputs with a maximum relay load of 230V / 5A. NOTE: Not available for the non-heating version
- Connect a door contact or external switch (by switching off the whole product when the contact is opened)
- Connect room thermostat (switch off heating when contact is opened) - NOTE: Not available for version without heating



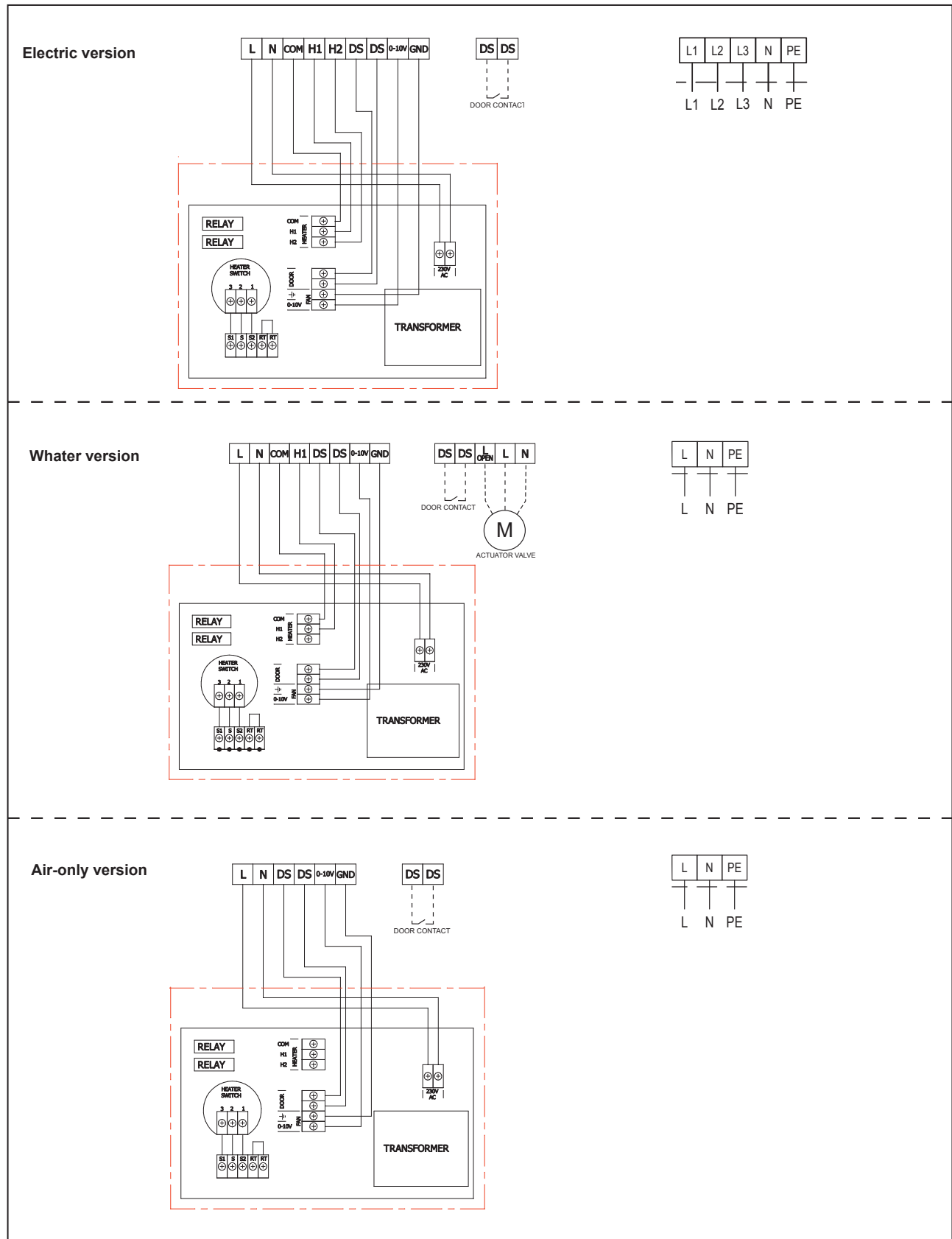
TERMINAL	FUNCTIONALITY	DESCRIPTION
S1	ENTRY TO THE INTERNAL HEAT CONTROLLER SWITCH	SWITCH FOR 1ST HEATING STAGE (FACTORY WIRED)
S		COM INTERNAL HEATING SWITCH (FACTORY WIRED)
S2		SWITCH FOR 2ND HEATING STAGE (FACTORY WIRED)
RT	ROOM THERMOSTAT	DI SWITCHES ONLY THE THERMAL OUTPUTS ON/OFF (FACTORY WIRED = ELECTRICALLY CONNECTED)
COM	COM HEATING	INPUT FOR HEATING CONTROL SIGNAL (MAX. LOAD 230V/5A)
H1	1. HEATING STAGE	OUTPUT OF THE 1ST HEATING STAGE
H2	2. HEATING STAGE	OUTPUT OF THE 2ND HEATING STAGE
DOOR	DOOR CONTACT (EXT CTRL, ROOM THERMOSTAT)	DI SWITCHING ON/OFF COMPLETE CONTROLLER (FAN AND HEATER)
0-10V DC	0-10V MOTOR CONTROL	OUTPUT FOR MOTOR CONTROL (MAX. 10 MOTORS)
GND	GND MOTOR CONTROL	
~230V	L - 230VAC	MAIN POWER SUPPLY 230V
	N - 230VAC	

NOTE: Terminals S1, S, S2, RT, COM, H1, H2 are not used for the non-heated screen. The non-heated version only supports fan control and connection of an external contact to the DOOR terminals (door switch, external control switch, ...).

## 6. INSTALLATION

### CONNECTION OF THE CONTROLLER AND ACCESSORIES

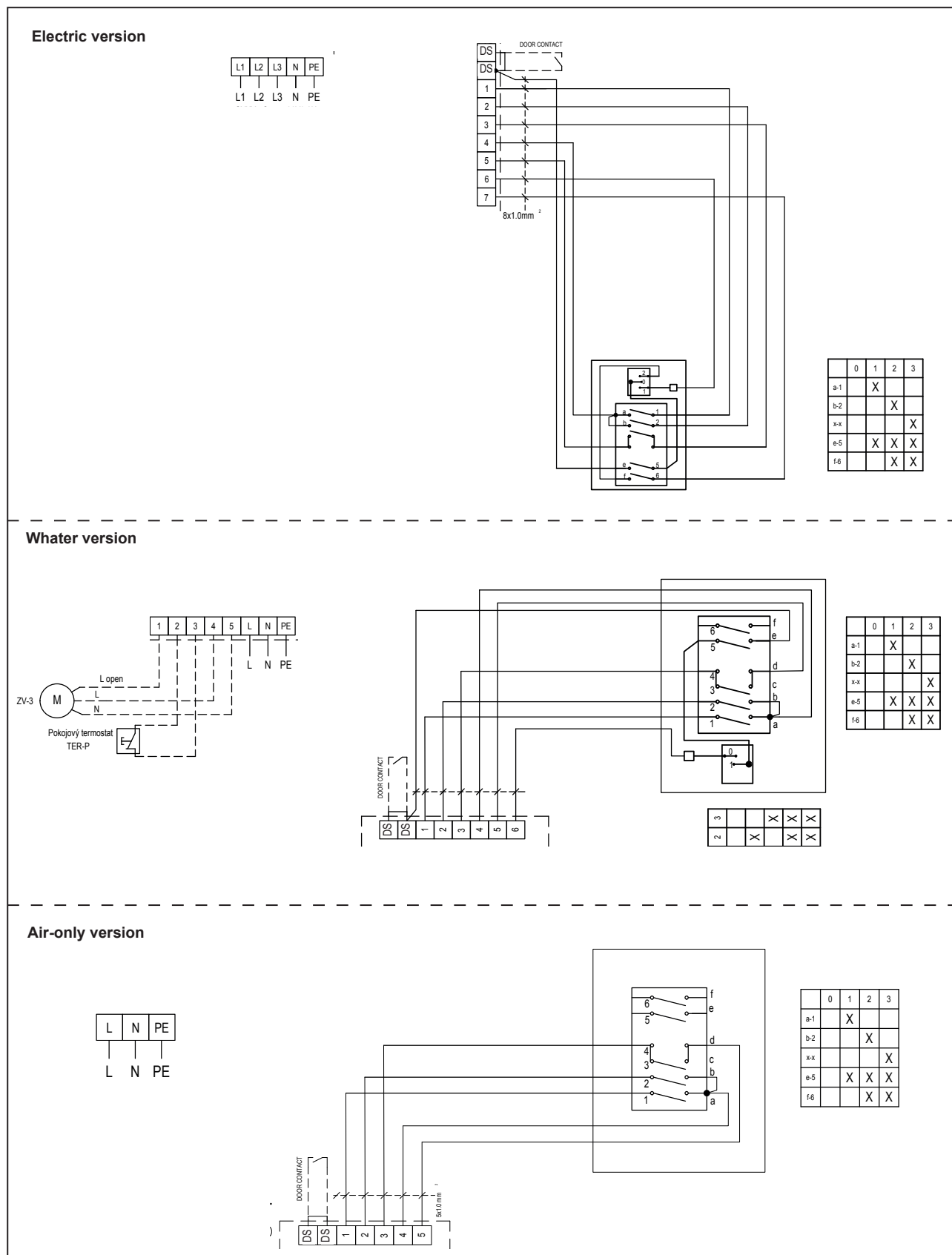
#### BASIC EC



## 6. INSTALLATION

### CONNECTION OF THE CONTROLLER AND ACCESSORIES

#### BASIC AC



## 6. INSTALLATION

### 6.9 EXIT SIGN

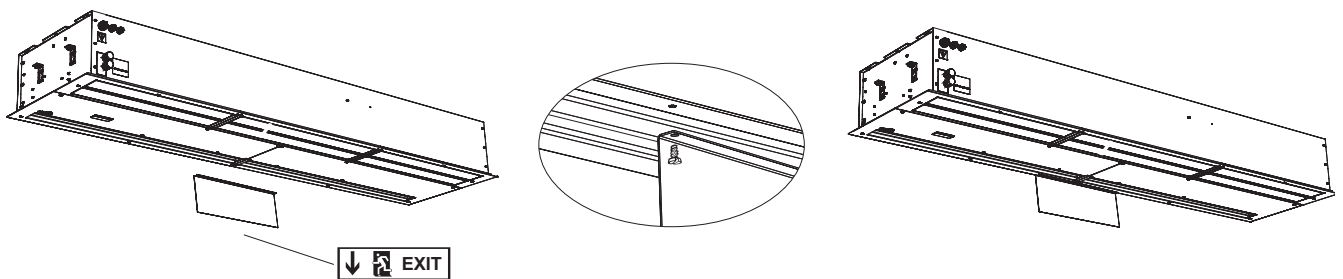


- Exit sign marking of emergency exit

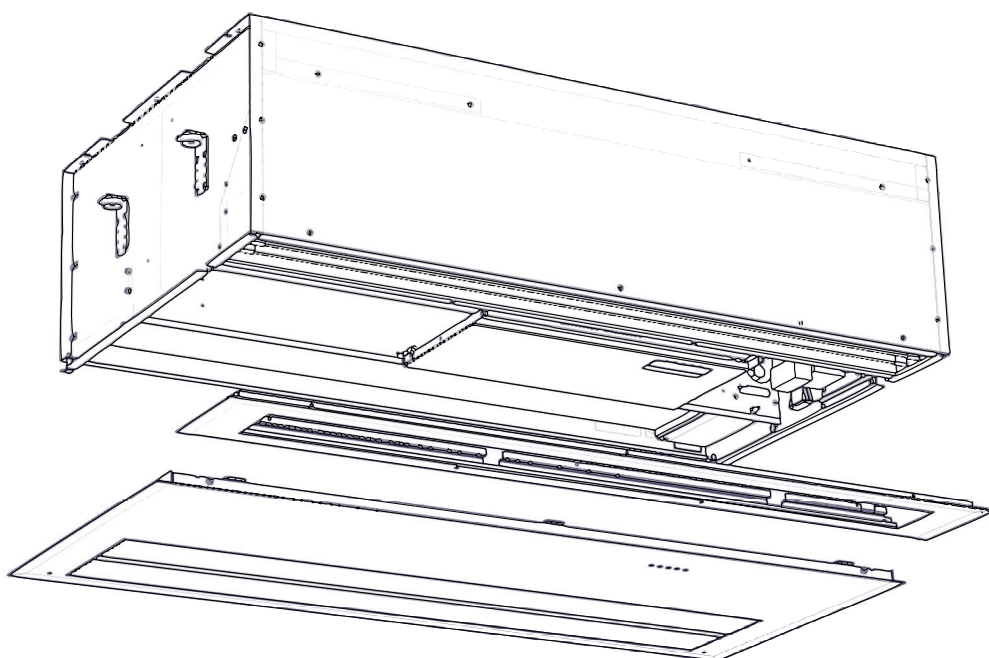
**For all types of VCS4x- air curtains!**



**Not included in delivery.**



### 6.10 COVERING THE AIR CURTAIN



## 7. INITIAL START-UP

### CAUTION!

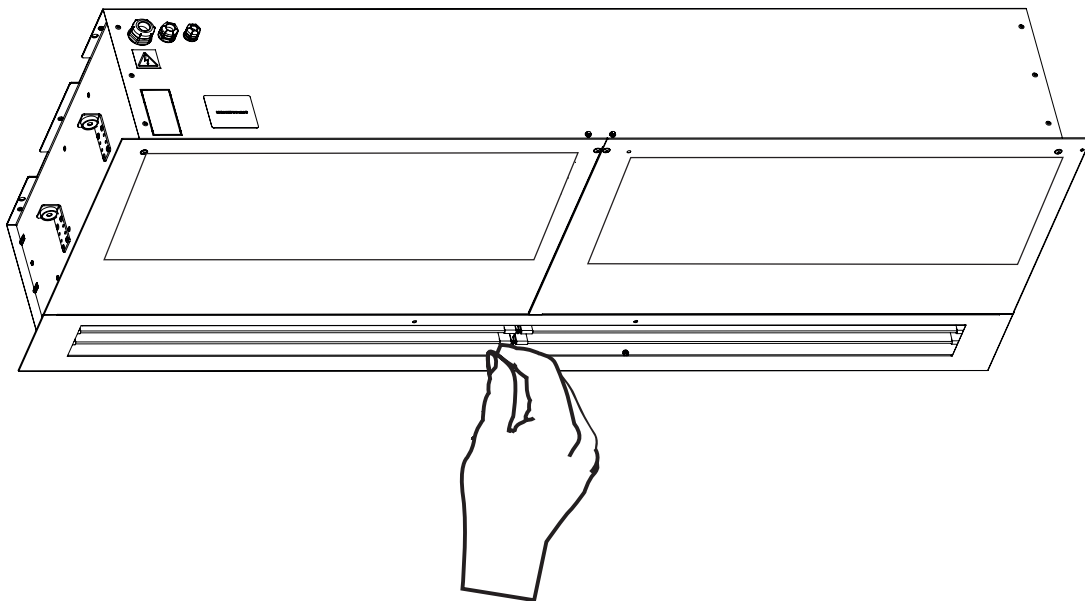
Before starting up the unit check that:

- No tools or other objects that may damage the unit have been left inside.
- The power and heating water supply are well connected.
- The unit is properly covered.
- The control panel is properly connected

During the commissioning, check the proper function of the unit (fans, heating). Check the other possible settings and functions according to the user manual of each regulator

### 7.1 SET AIR FLOW DIRECTION

This is set by tilting the air curtain's fan louvers in the desired direction.



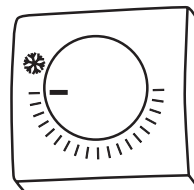
## 8. ACCESSORIES

### Room thermostat -TER-P



#### **TECHNICAL INFORMATION**

- Room thermostat for heating control
- Cable: Two-core cable with a cross section of 0.5 mm<sup>2</sup>, 230 V/ 50 Hz.



### ATTENTION!

Not supplied with the product.

## 8. ACCESSORIES

### CONNECTION OF EXTERNAL ACCESSORIES



#### **DON'T OVERLOOK**

When connecting external accessories, the air curtain must be disconnected from the power supply. The air vent must be disconnected from the mains.

All external control components must be wired according to the wiring diagram.

Connectors must be plugged into the electrical board with adequate force and always perpendicular to the base.

#### **Door switch DS** (for **Basic AC / EC** controls)



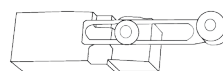
##### **TECHNICAL INFORMATION**

- Suitable for all BASIC controls
- Isolated opening contact with maximum voltage 230V, 6A
- IP67, can be connected as a switching or opening contact



##### **ATTENTION!**

Not supplied with the product.



#### **Door switch DK-B3** (for **Basic EC** control only)



##### **TECHNICAL INFORMATION**

- Isolated door contact with maximum voltage 12V.
- Cable: Maximum length: 50 m



##### **ATTENTION!**

Not supplied with the product.



#### **Thermostatic valve– TV1/1**



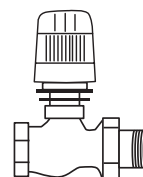
##### **TECHNICAL INFORMATION**

- Thermostatic valve for water exchanger control
- Suitable for all types of screens with water heat exchanger



##### **ATTENTION!**

Not supplied with the product.



#### **Zone valve ZVx-230 / RT-3-xx**



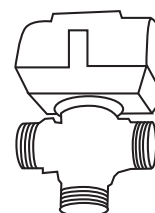
##### **TECHNICAL INFORMATION**

- Zone valve for water heat exchanger control
- Cable: Three-conductor cable with a cross-section of 1.5 mm<sup>2</sup>, 230 V/ 50 Hz.



##### **ATTENTION!**

Not supplied with the product.



## 9. MAINTENANCE

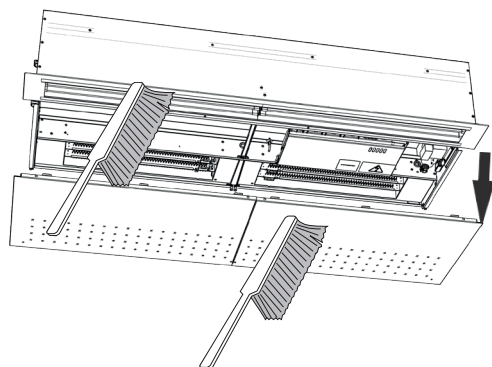
### 9.1 CLEANING



#### ATTENTION!

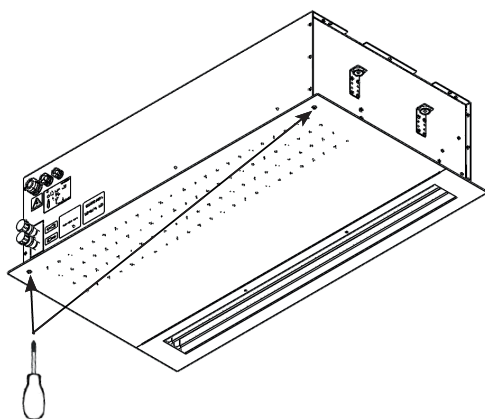
The main electrical supply must be switched off before any interference to the inside of the air curtain. The air curtain must be allowed to cool down!

- Cleaning is forbidden to use compressed air, aggressive chemicals, solvents or water.
- Clean with a damp cloth, a soft cloth, or a vacuum cleaner
- Clean the surface of the air curtain, including the suction part.
- Perform cleaning as needed, recommended at least every 3 months
- Observe safety and use protective equipment

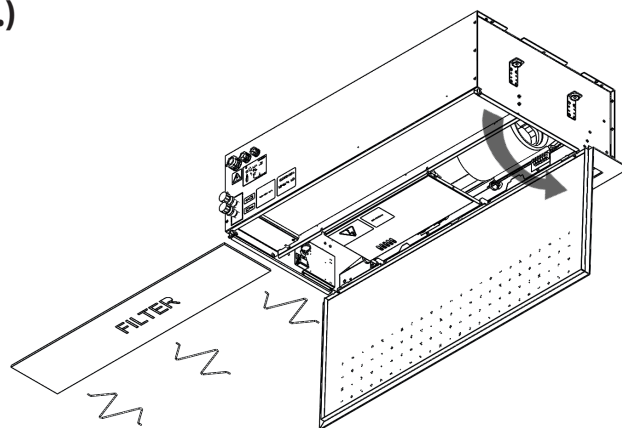


### 9.2 INSTALLING AND REPLACING THE FILTER (ACCESSORIES) FOR THE AIR-ONLY (AMBIENT) AND WATER VERSION

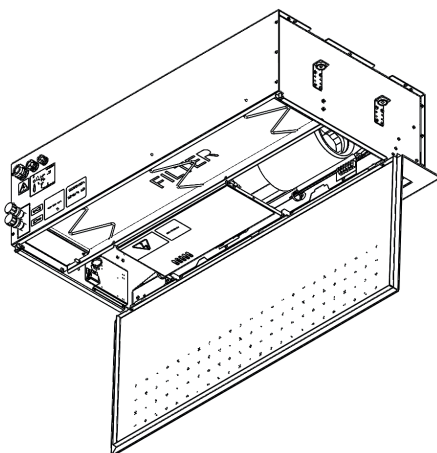
1.)



2.)



3.)

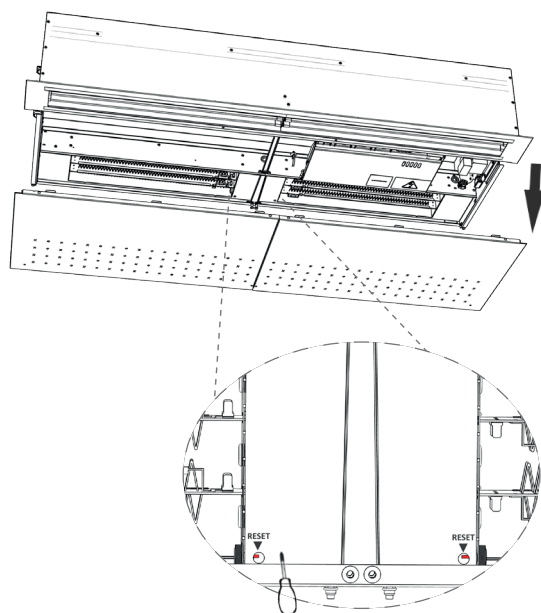


## 10. SERVIS

### 10.1 RESETTING THE EMERGENCY THERMOSTAT

**The main electrical supply must be switched off before any tampering with the inside of the air curtain. The air curtain must be allowed to cool down!**

- Clean the surface and the inside of the air curtain, including the intake section.
- Visual inspection of the orifice, heating exchanger and wiring.
- Check of emergency thermostats and subsequent reset.



### 10.2 WHEN YOU AREN'T ABLE TO REMOVE DEFECT BY YOURSELF

If you are unable to resolve the problem, contact the supplier.

For the fast removal of defects please provide the following information:

- product reference number
- serial number
- running time
- used accessories
- installation location
- installation condition (including electrical)
- detailed description of the problem and the steps that you have taken for its removal

Warranty and post-warranty service is performed by the manufacturer, supplier or authorized service organization. When ordering service intervention it is necessary to describe the defect, product type designation indicated on its label, and the location of installation.



## 11. TROUBLESHOOTING

In case of any intervention on the air curtain, the main power supply must be disconnected. If you are not sure about the correctness of the steps, never proceed with any repair and call a professional service !!!

Device behaviour	Anticipated problem	Solution
The device is not working	Interrupted power supply	Check that the power supply is not interrupted
	Cracked fuse	Check the fuse located on the control module
Heating switches off spontaneously	The heater is overheating	The electric heater overheats due to insufficient air flow. Check that the fans are running at full speed and that the air supply to the unit is not restricted.

### **ATTENTION!**

The main electrical supply must be switched off before any tampering with the inside of the air curtain. The air curtain must be allowed to cool down!

## 12. PUTTING THE PRODUCT OUT OF OPERATION - DISPOSAL

Before disposing of the product, make the product unusable. Even old products contain raw materials that can be reused. Take them to a collection point of secondary raw materials.

The product is good to dispose at the place, which is specialized for it, and thus it will be possible to recycle materials. Store unusable parts of the product at a controlled dump.

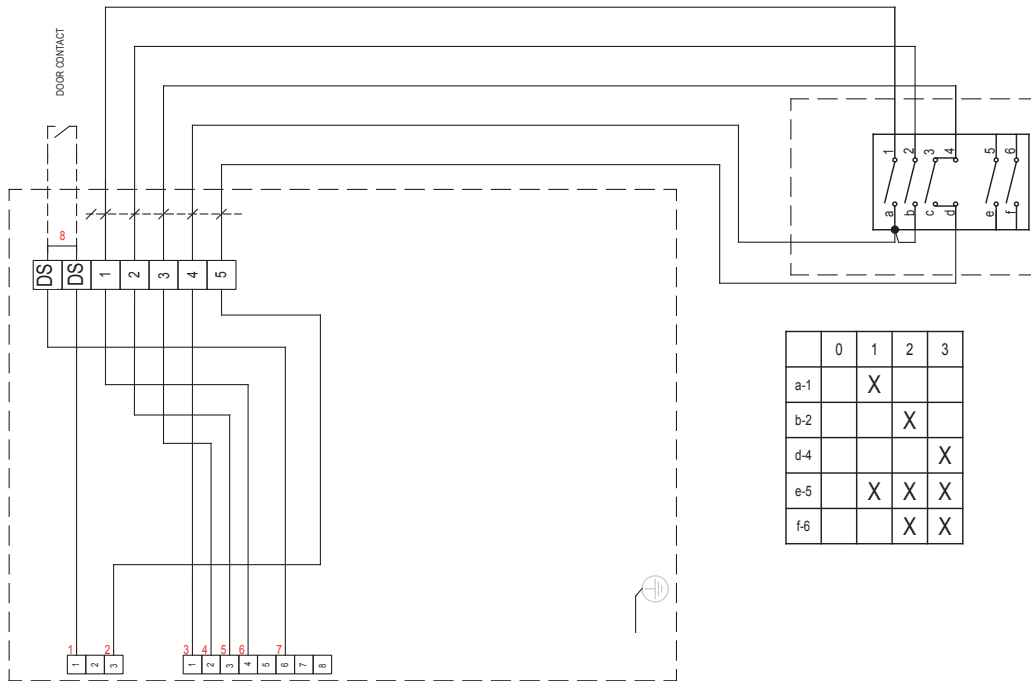
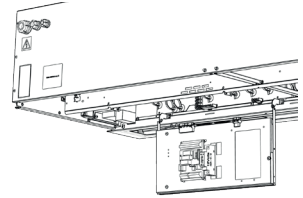


When disposing of materials, it is necessary to observe the relevant national regulations on waste disposal.

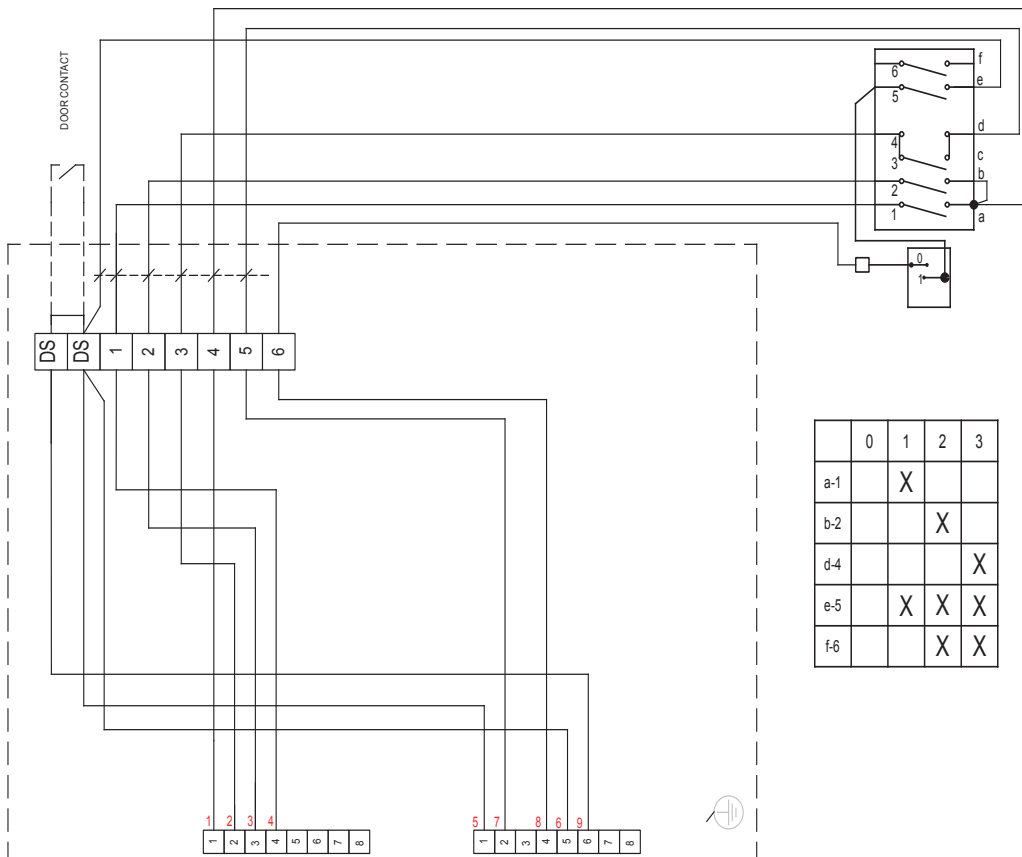
## 13. ELECTRICAL SCHEMES

### CONTROL MODULE SECTION **BASIC AC**

#### **BASIC AC without heater (VCFI5x-xxx-S0-AC-BA)**



#### **BASIC AC with whater coil (VCFI5x-xxx-V2-AC-BA)**

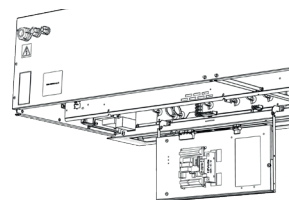


AC fans

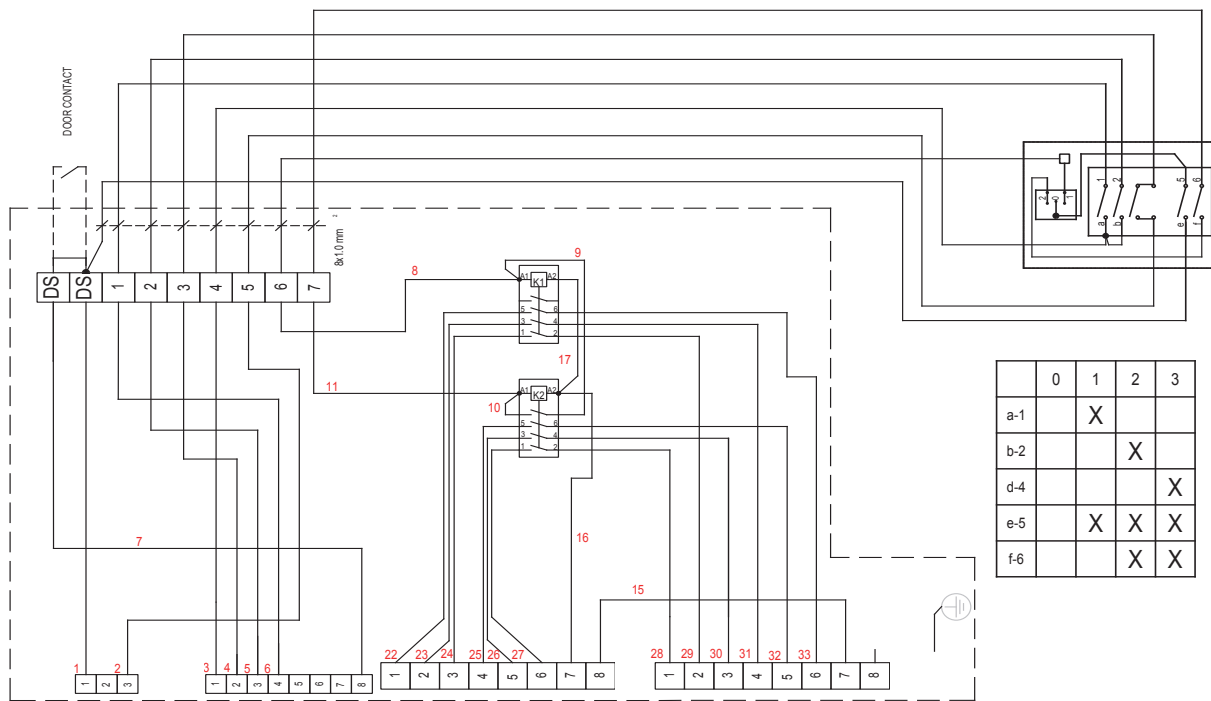
# 13. ELECTRICAL SCHEMES

## CONTROL MODULE SECTION BASIC AC

### BASIC AC with electric heater (VCFI5x-xxx-E1-AC-BA)



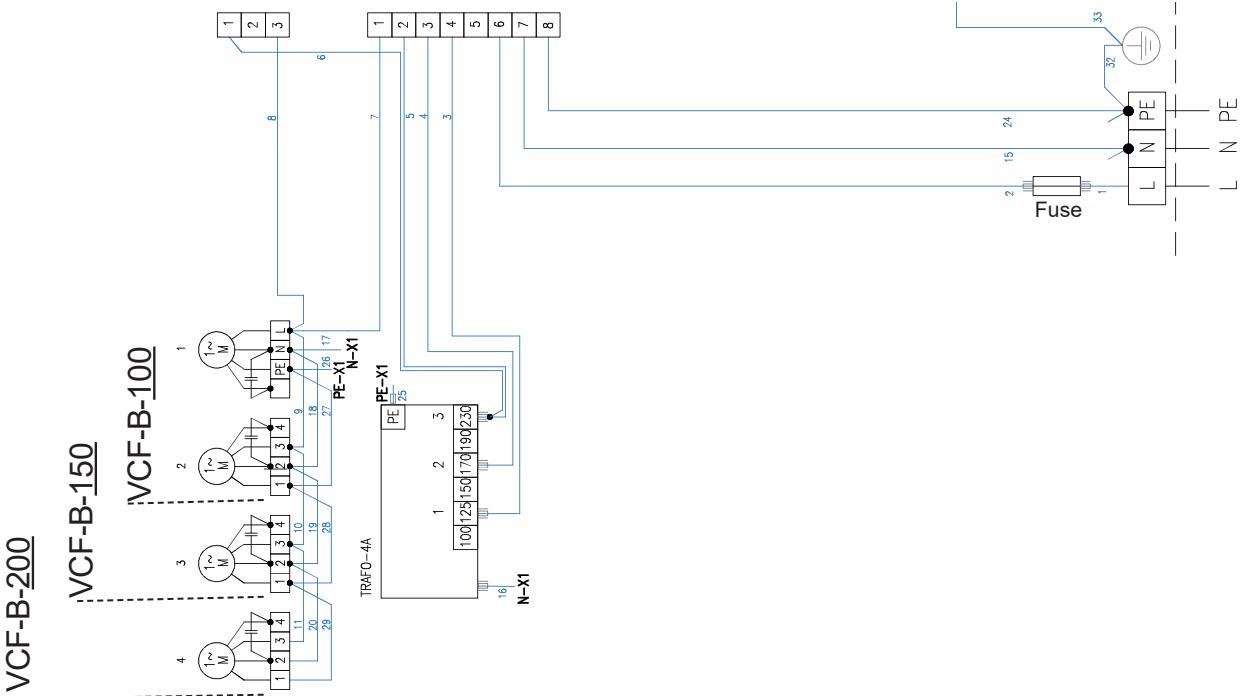
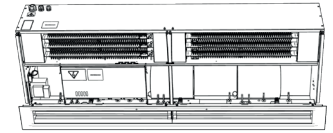
AC fans



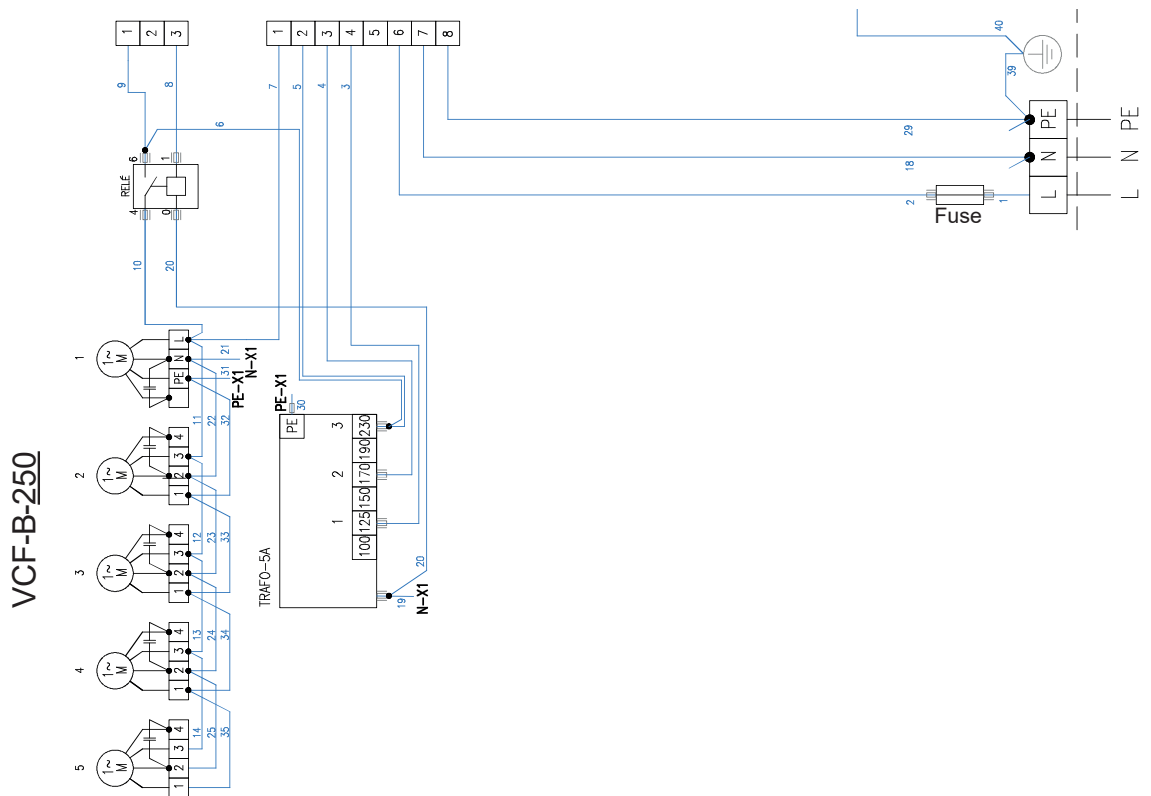
# 13. ELECTRICAL SCHEMES

## AIR CURTAIN WITH AC FANS (VCFI5 B)

### VCFI5B-xxx-S0-AC (without heater)



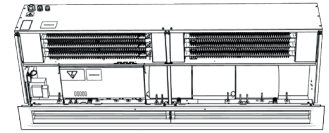
AC fans



# 13. ELECTRICAL SCHEMES

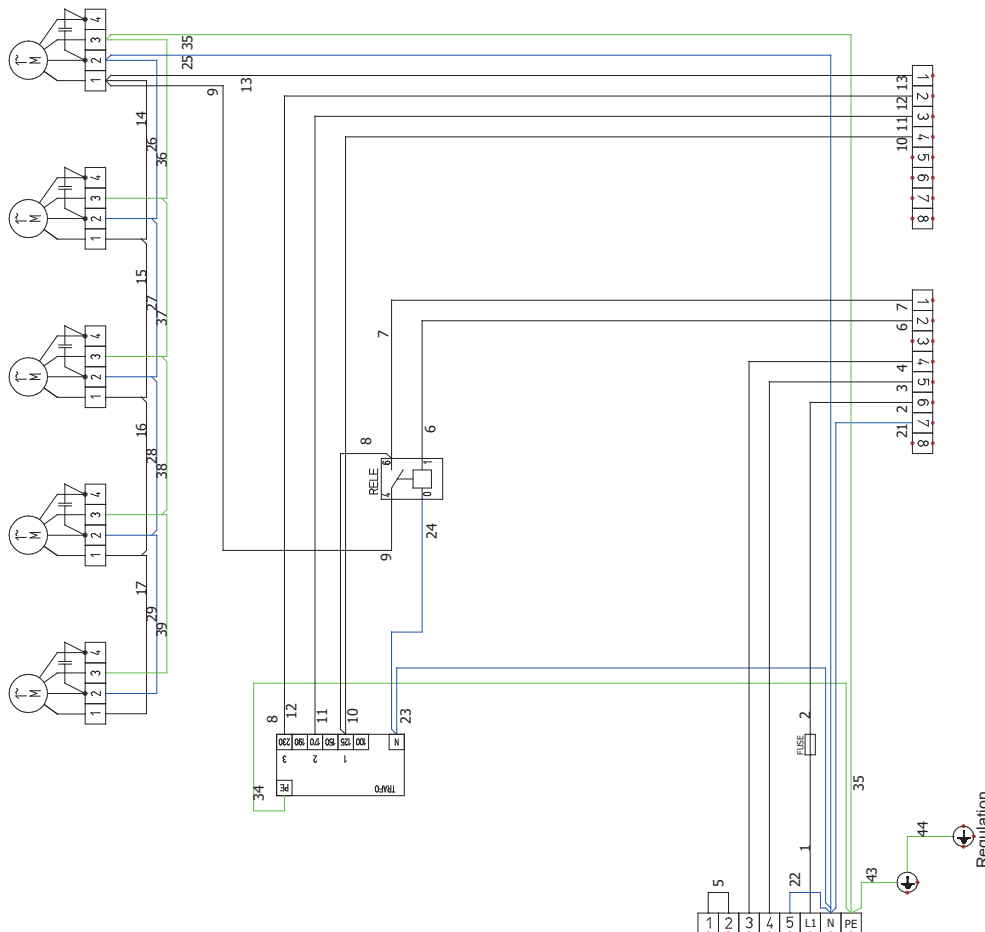
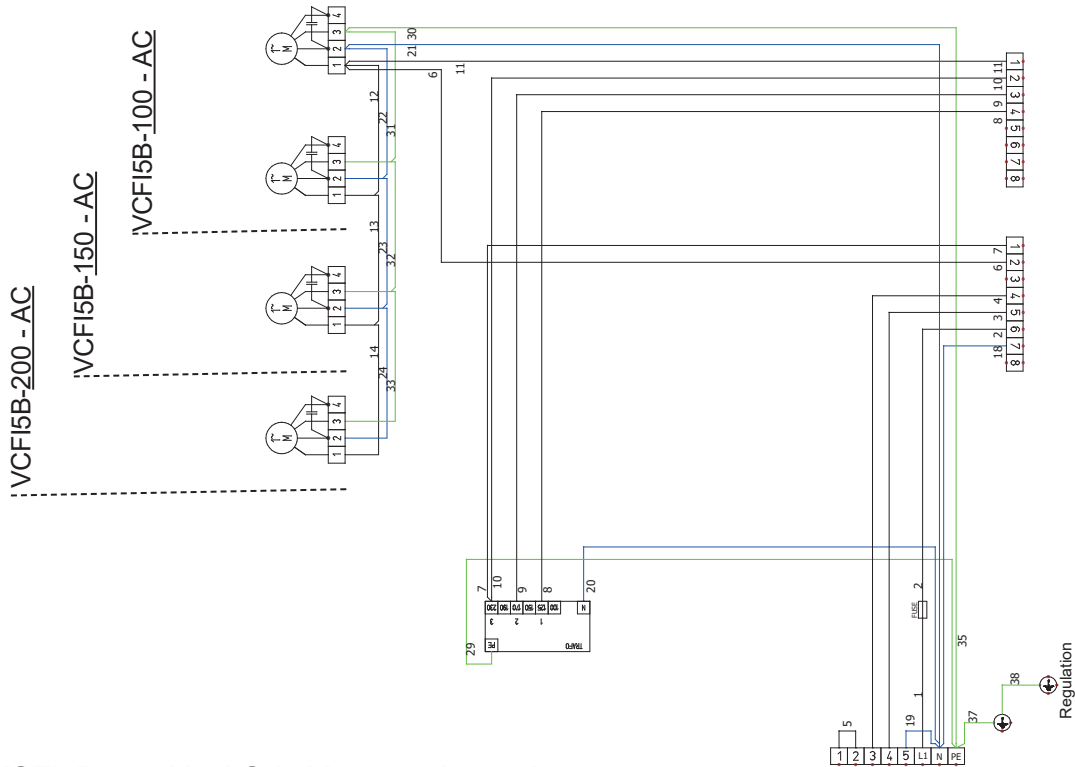
## AIR CURTAIN WITH AC FANS (VCFI5 B)

### VCFI5B-100/150/200-V2-AC (with water heater)



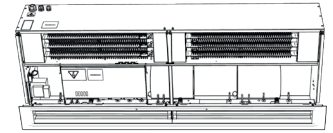
AC fans

### VCFI5B-250-V2-AC (with water heater)

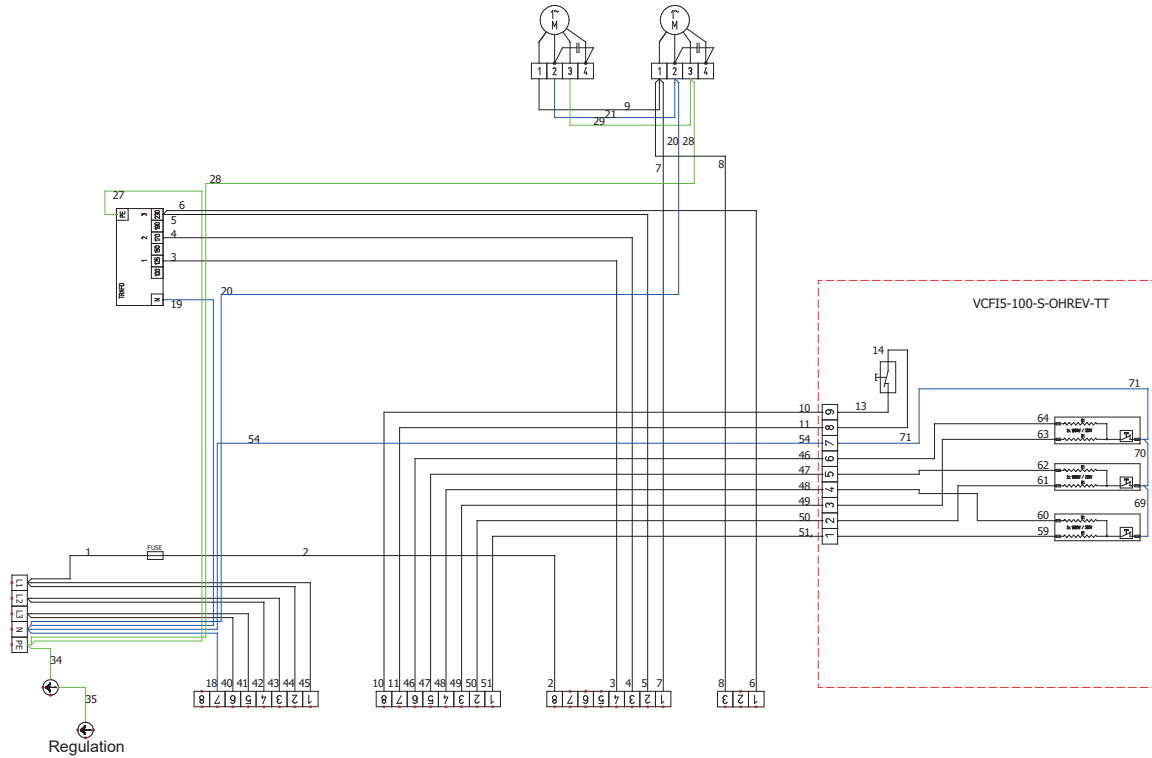


## 13. ELECTRICAL SCHEMES

### AIR CURTAIN WITH AC FANS (VCFI5 B)

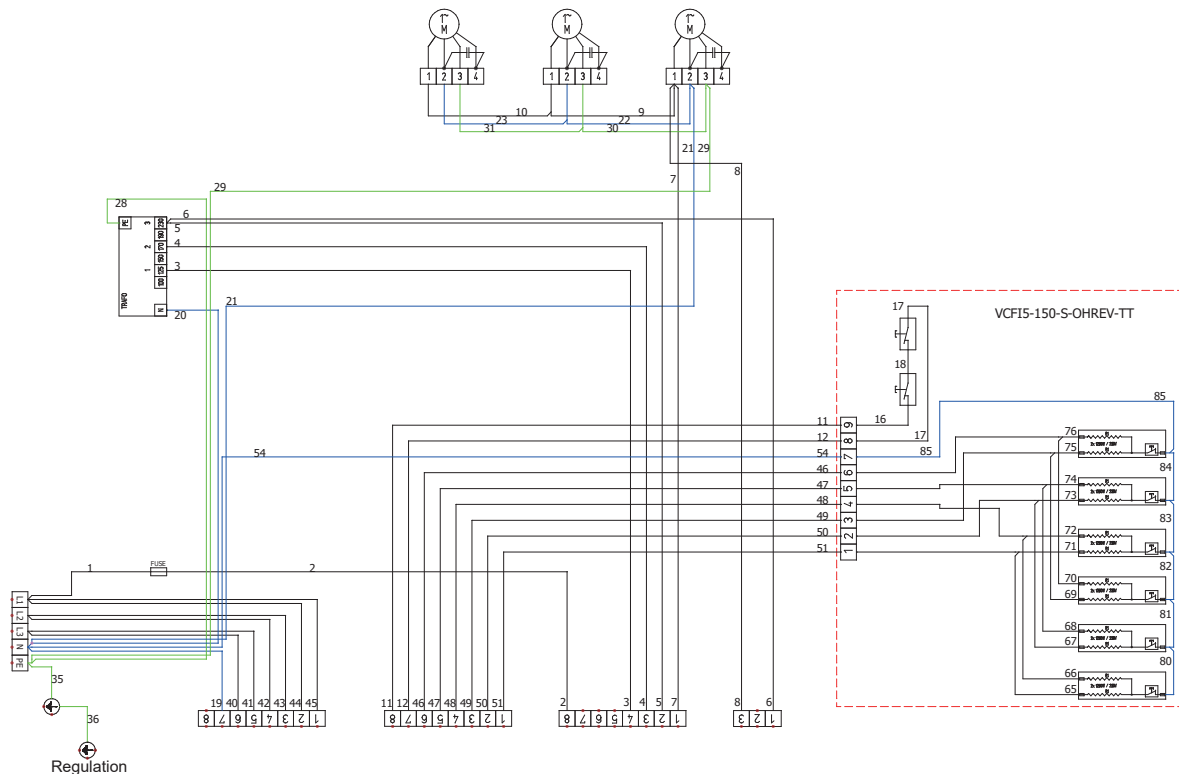


#### VCFI5B-100-E1-AC (with electric heater)



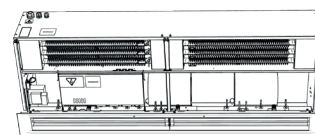
AC fans

#### VCFI5B-150-E1-AC (with electric heater)



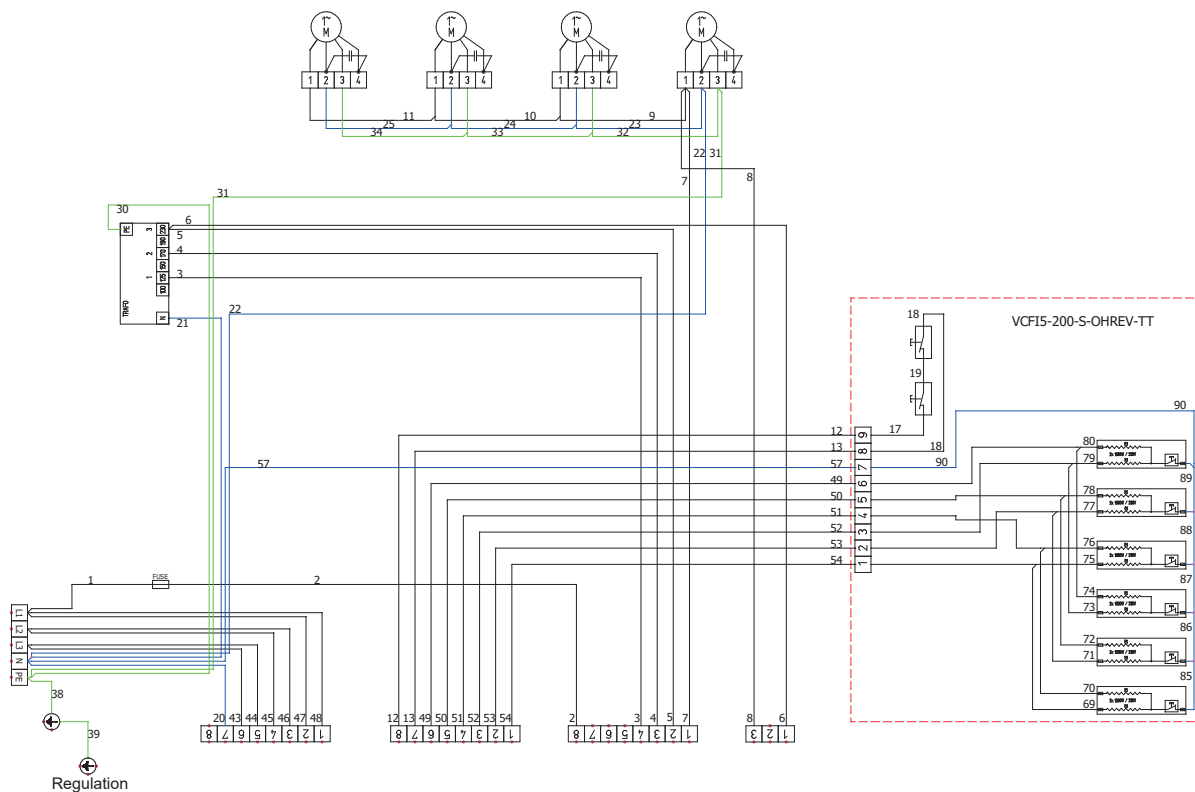
# 13. ELECTRICAL SCHEMES

## AIR CURTAIN WITH AC FANS (VCFI5 B)

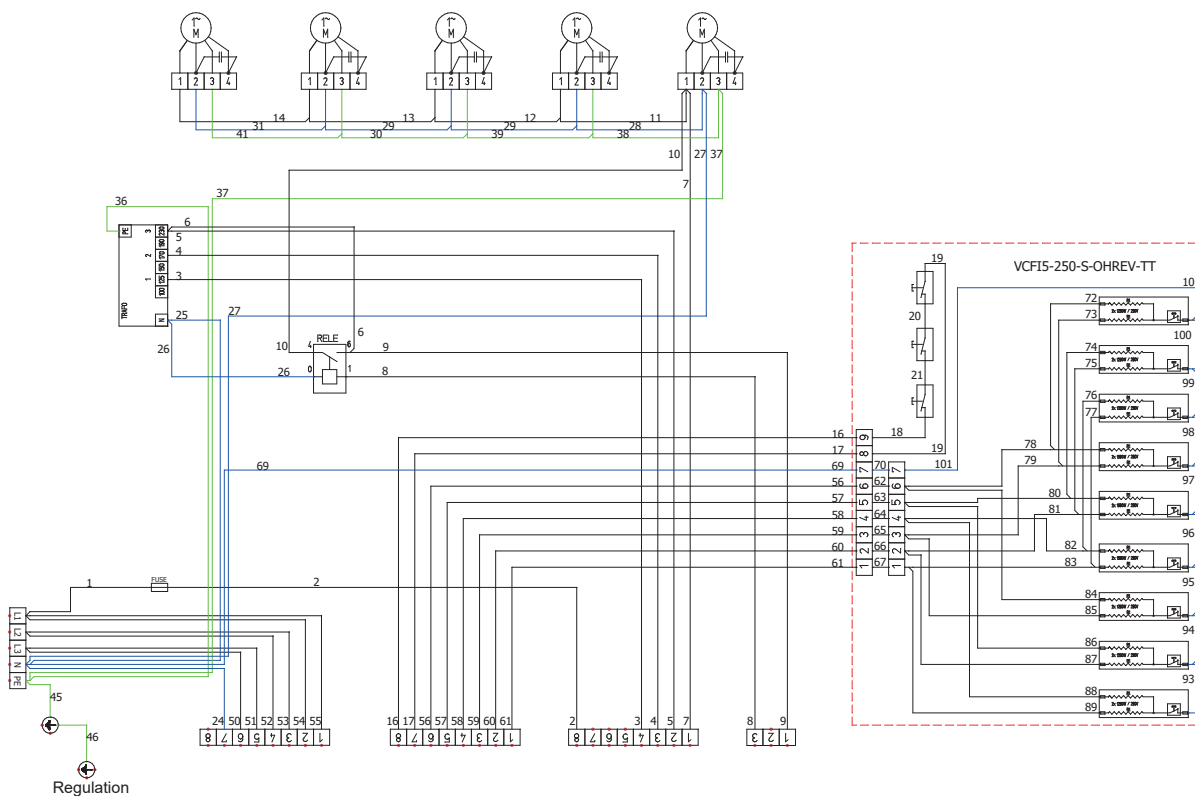


### VCFI5B-200-E1-AC (with electric heater)

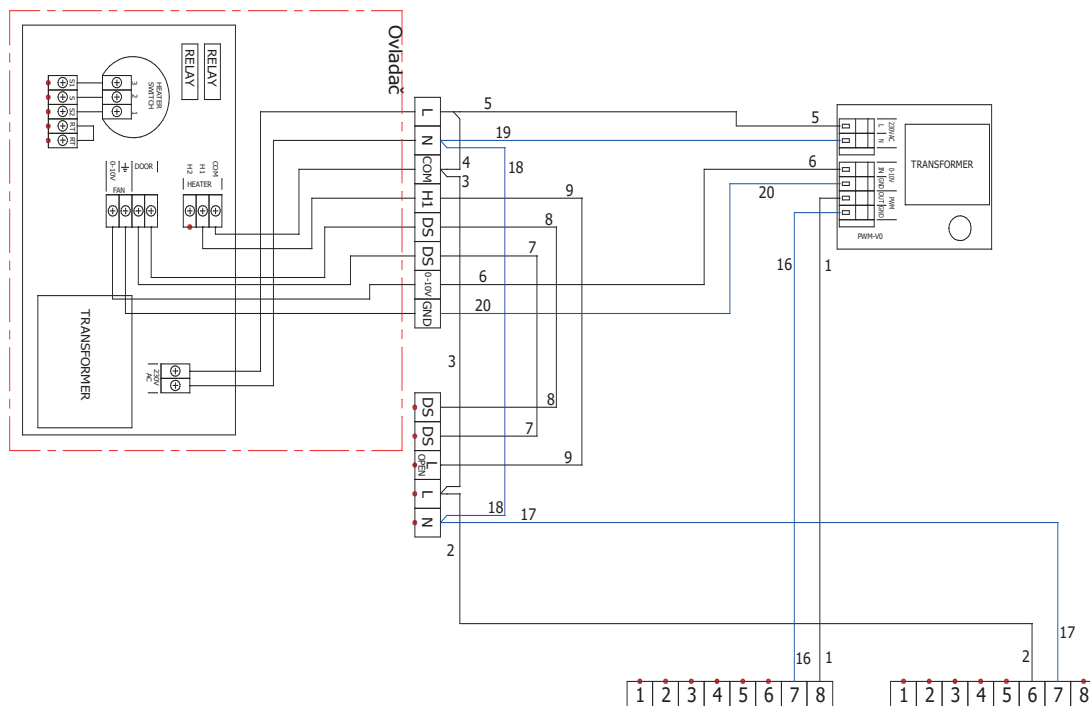
AC fans



### VCFI5B-250-E1-AC (with electric heater)



### BASIC EC without heater (VCFI5 B/C-xxx-S0-EC)

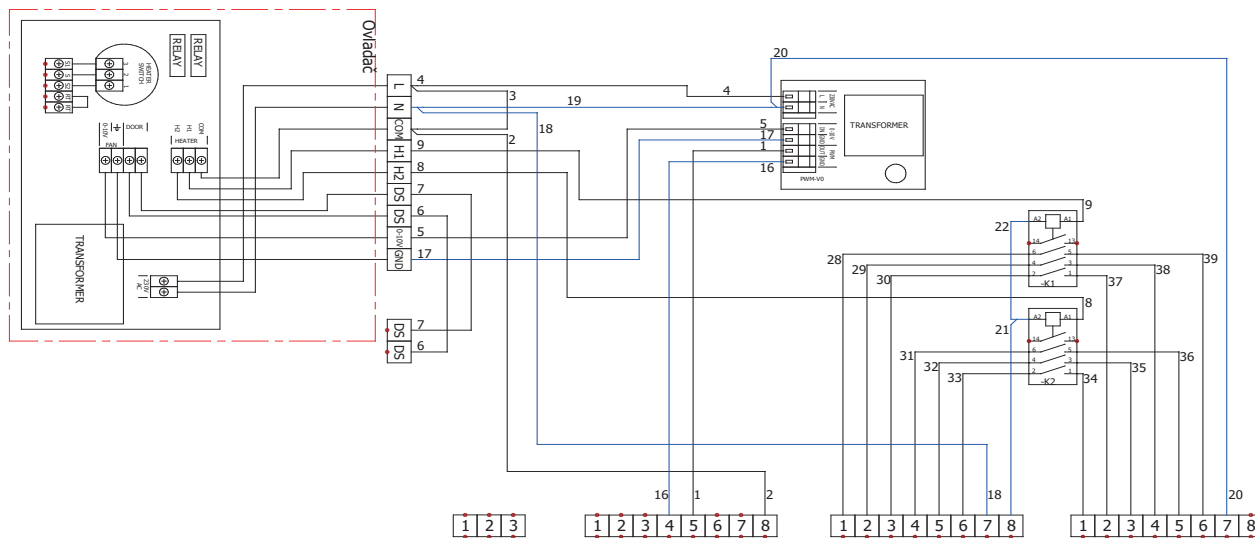
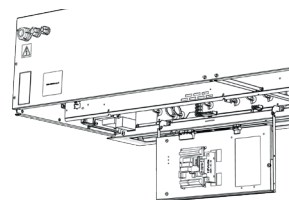




# 13. ELECTRICAL SCHEMES

CONTROL MODULE SECTION **BASIC EC** (VCFI5 B/C)

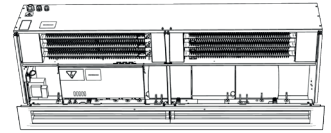
**BASIC EC with electric heater** (VCFI5 B/C-xxx-V2-EC)



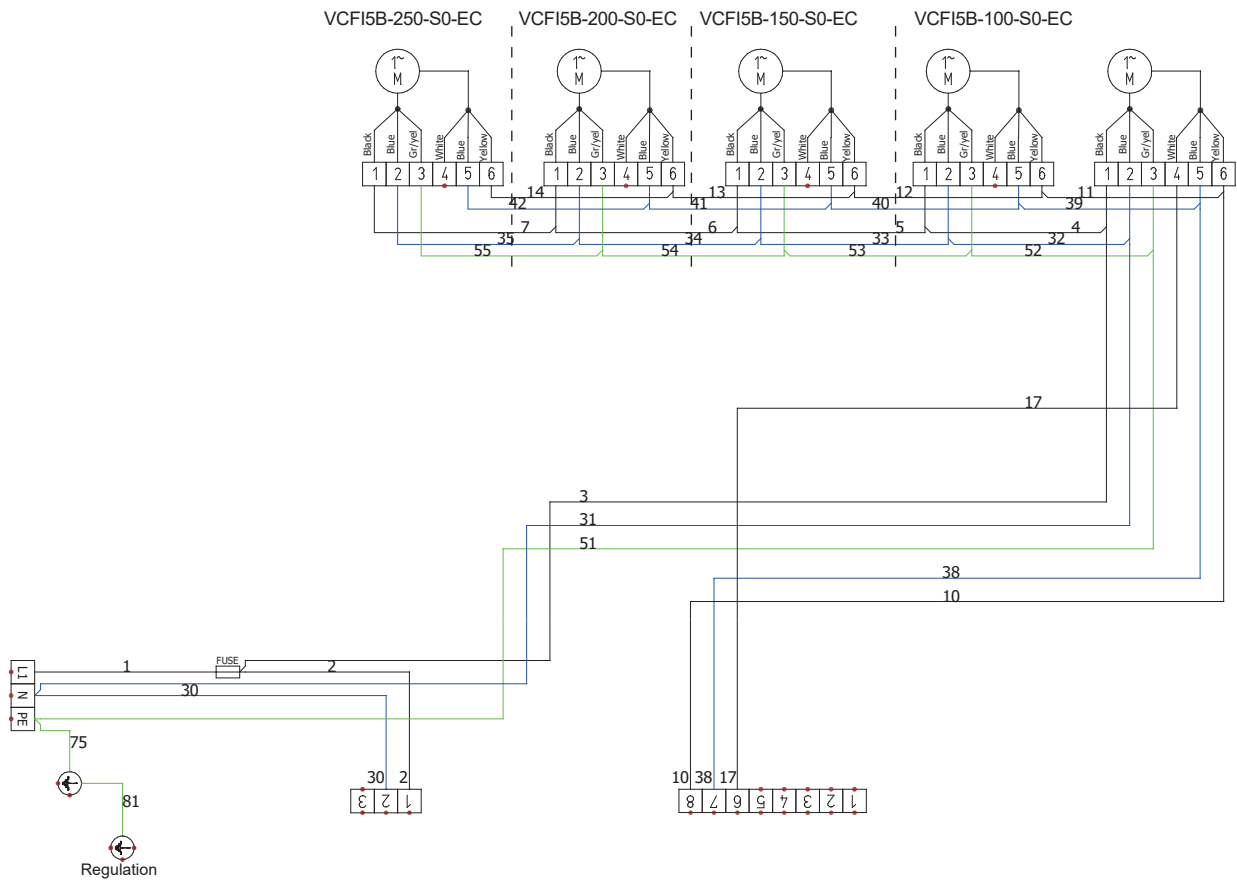
EC fans

## 13. ELECTRICAL SCHEMES

AIR CURTAIN WITH EC FANS (VCFI5 B)



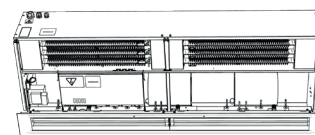
VCFI5B-100/150/200/250-S0-EC (without heater)



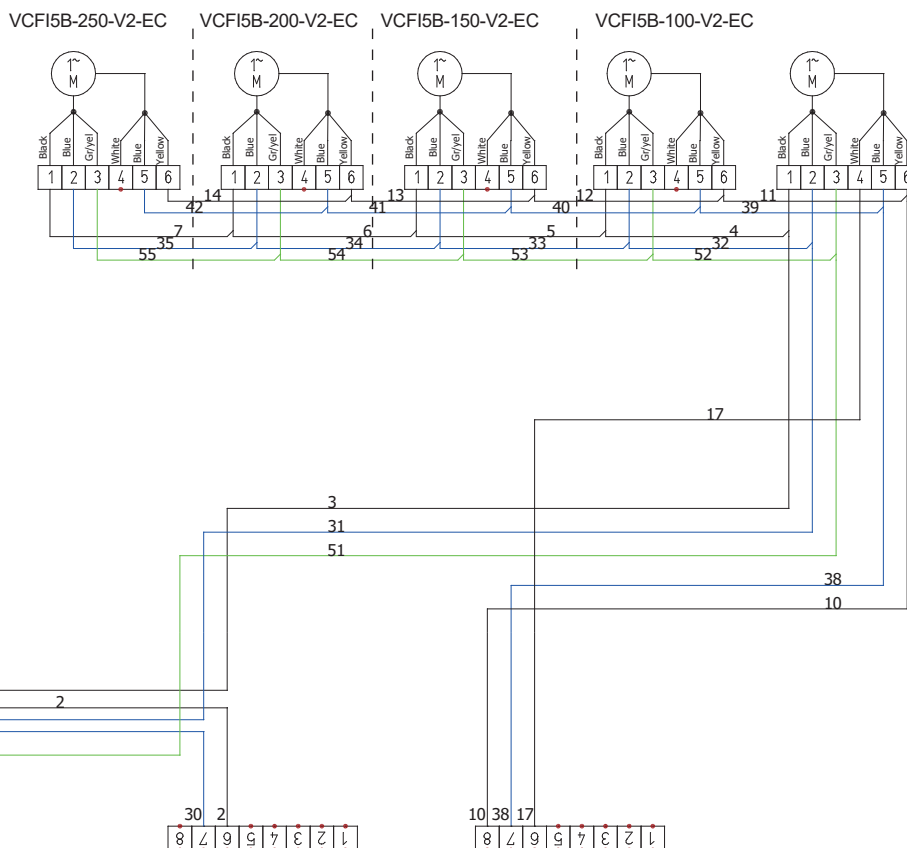
EC fans

# 13. ELECTRICAL SCHEMES

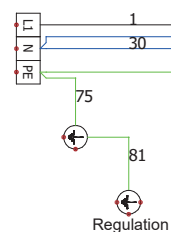
AIR CURTAIN WITH EC FANS (VCFI5 B)



VCFI5B-100/150/200/250-V2-EC (with water heater)

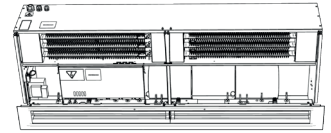


EC fans

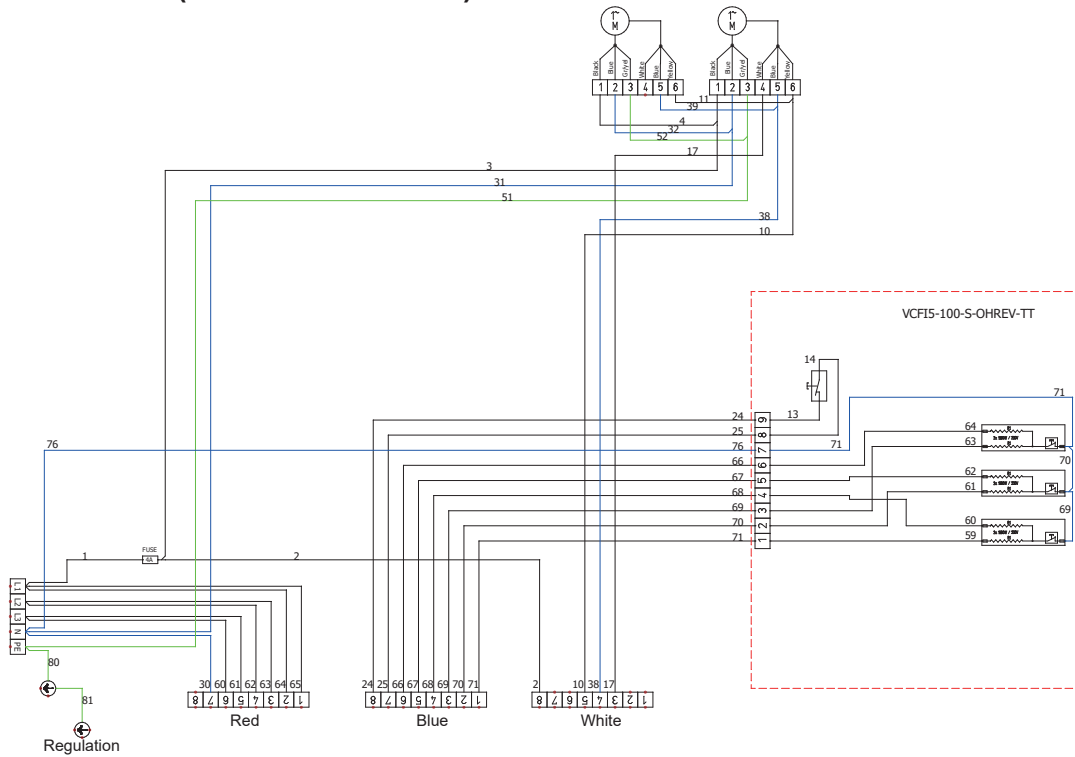


# 13. ELECTRICAL SCHEMES

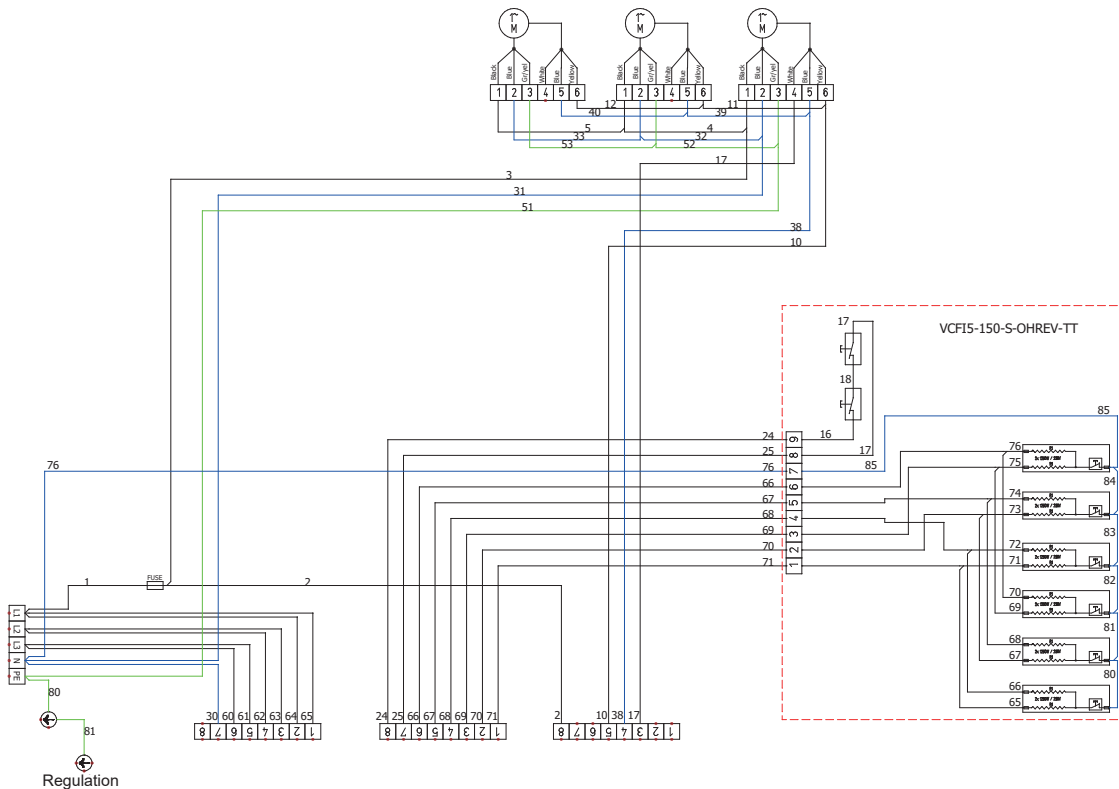
AIR CURTAIN WITH EC FANS (VCFI5 B)



VCFI5B-100-E1-EC (with electric heater)



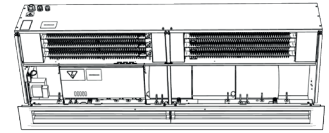
VCFI5B-150-E1-EC (with electric heater)



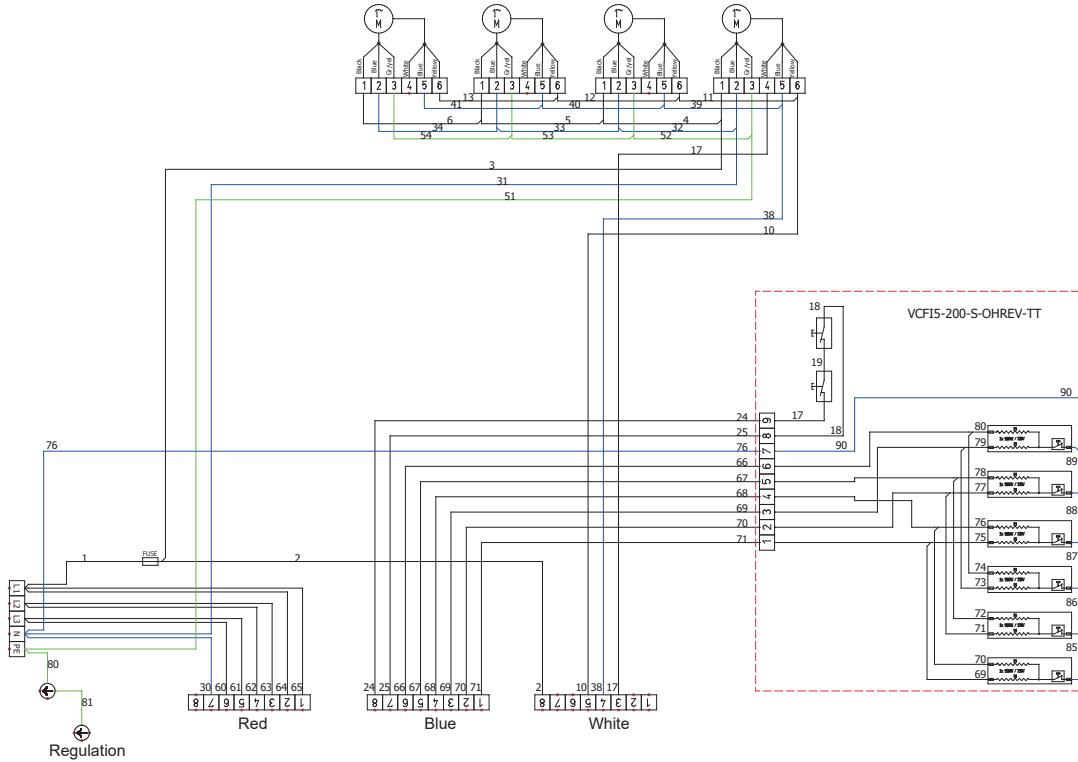
EC fans

# 13. ELECTRICAL SCHEMES

AIR CURTAIN WITH EC FANS (VCFI5 B)

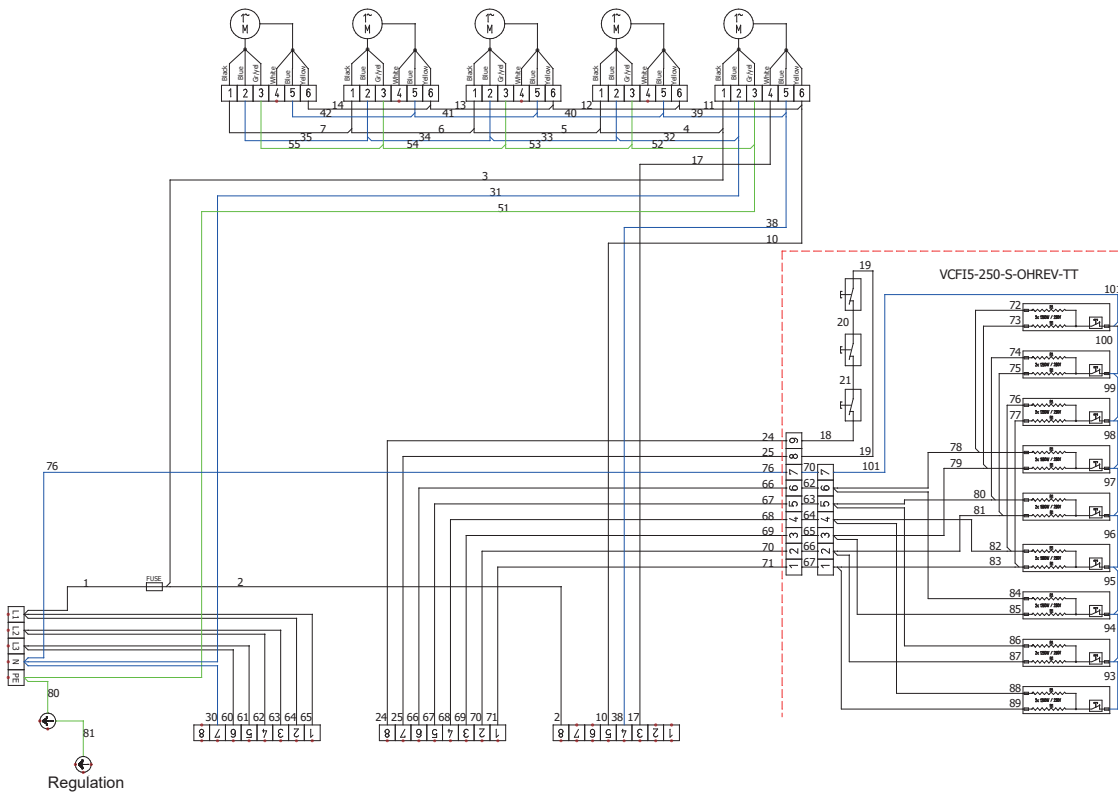


VCFI5B-200-E1-EC (with electric heater)



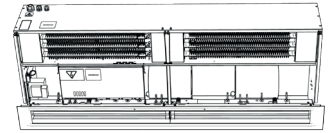
EC fans

VCFI5B-250-E1-EC (with electric heater)

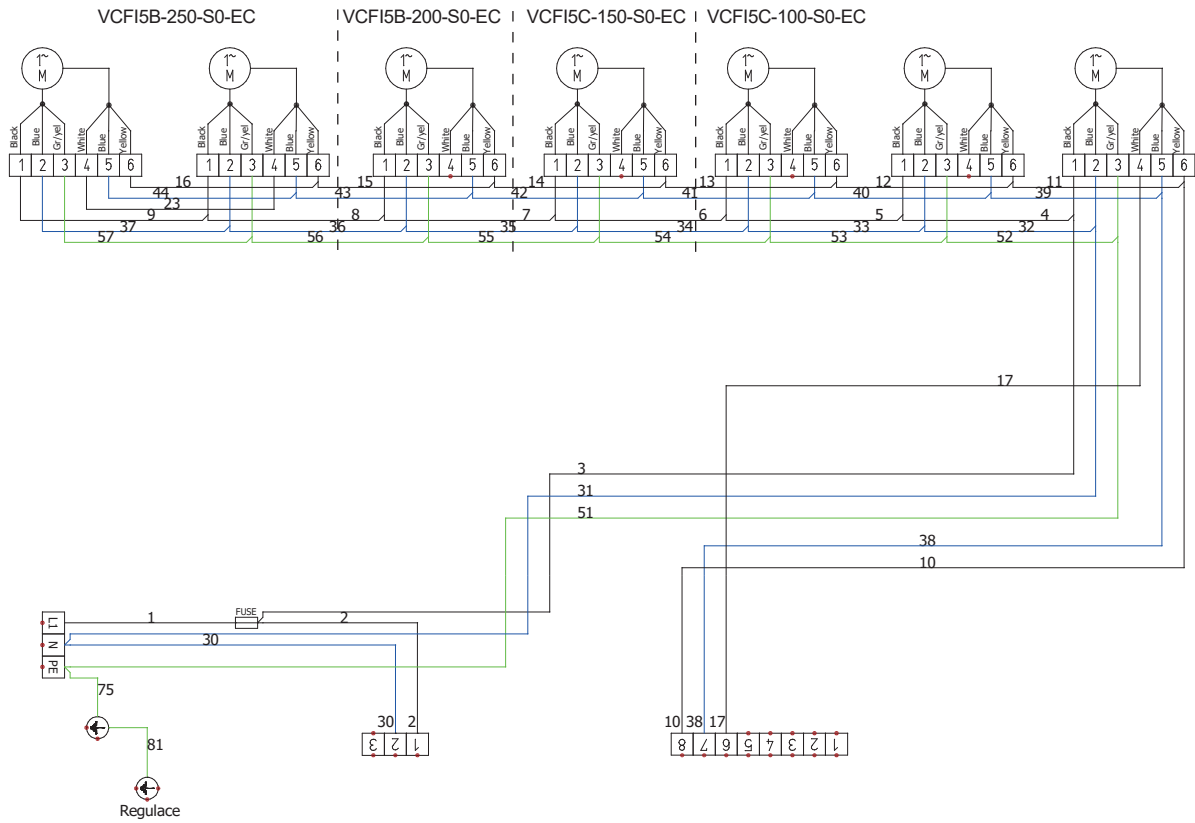


# 13. ELECTRICAL SCHEMES

AIR CURTAIN WITH EC FANS (VCFI5 C)



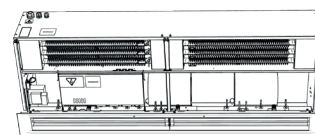
**VCFI5C-100/150/200/250-S0-EC (without heater)**



EC fans

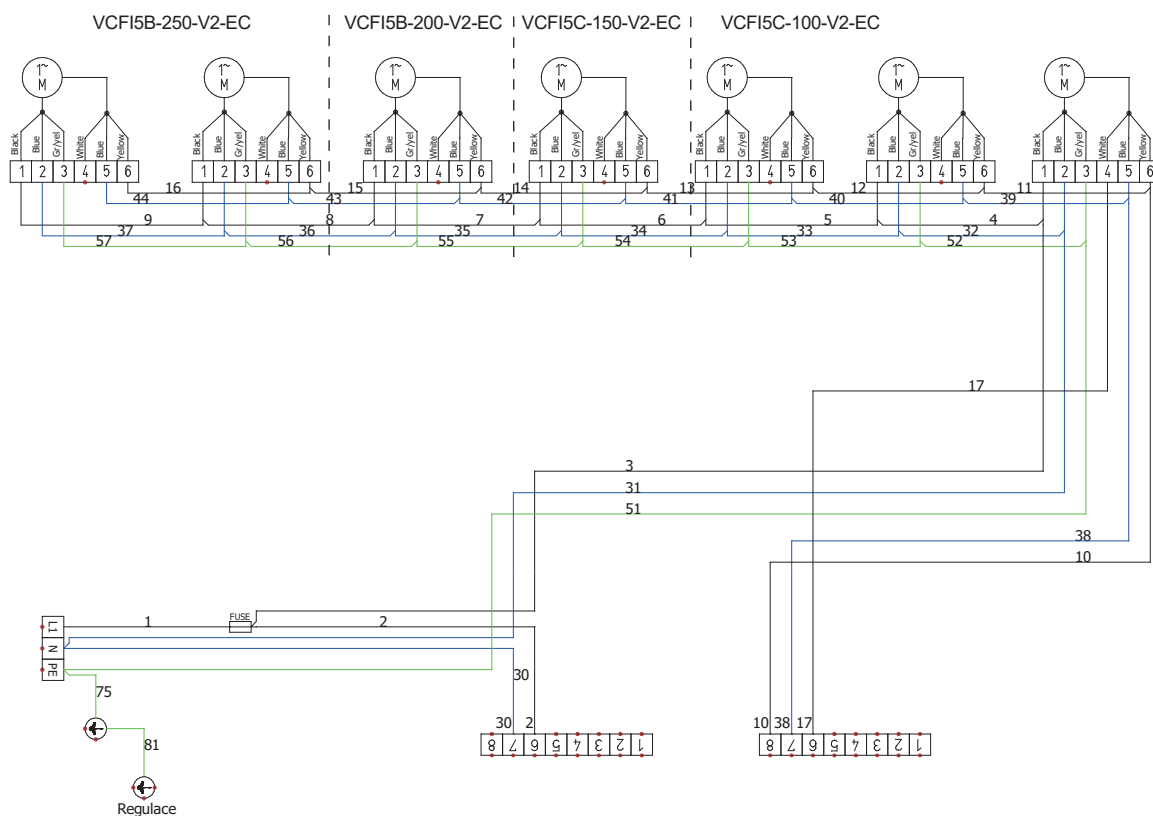
# 13. ELECTRICAL SCHEMES

AIR CURTAIN WITH EC FANS (VCFI5 C)



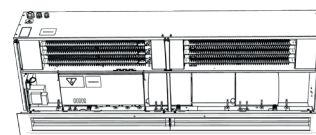
**VCFI5C-100/150/200/250-V2/V6-EC (with water heater)**

EC fans

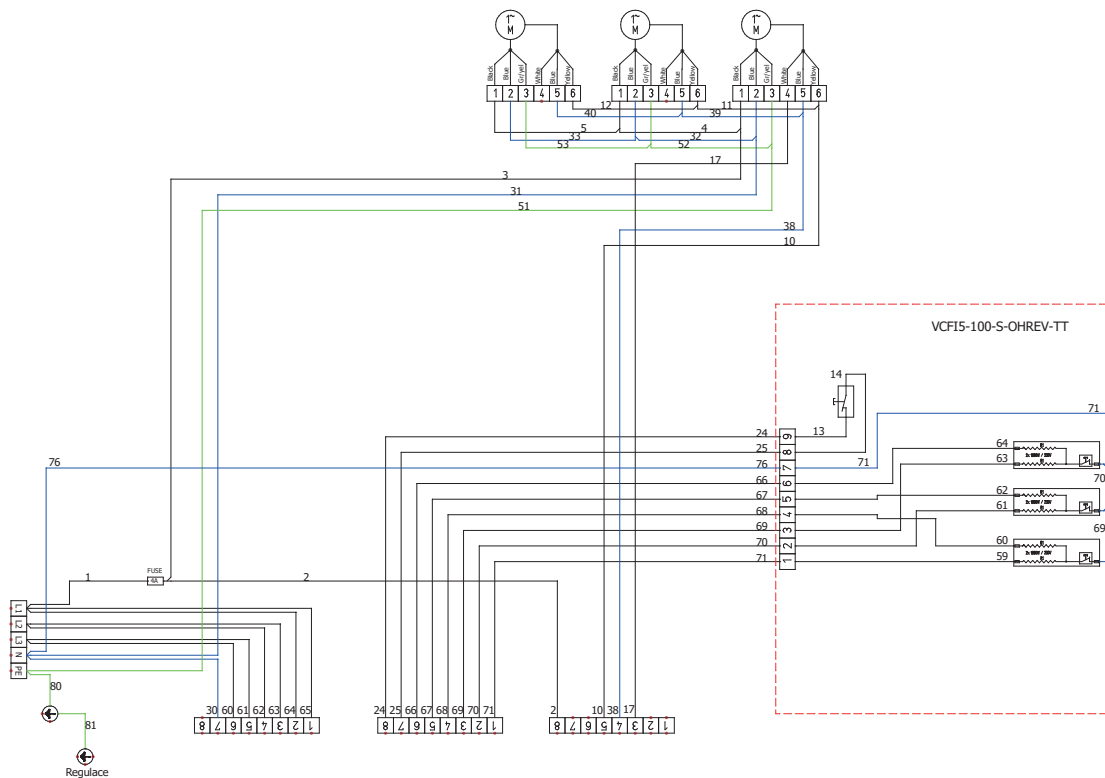


# 13. ELECTRICAL SCHEMES

AIR CURTAIN WITH EC FANS (VCFI5 C)

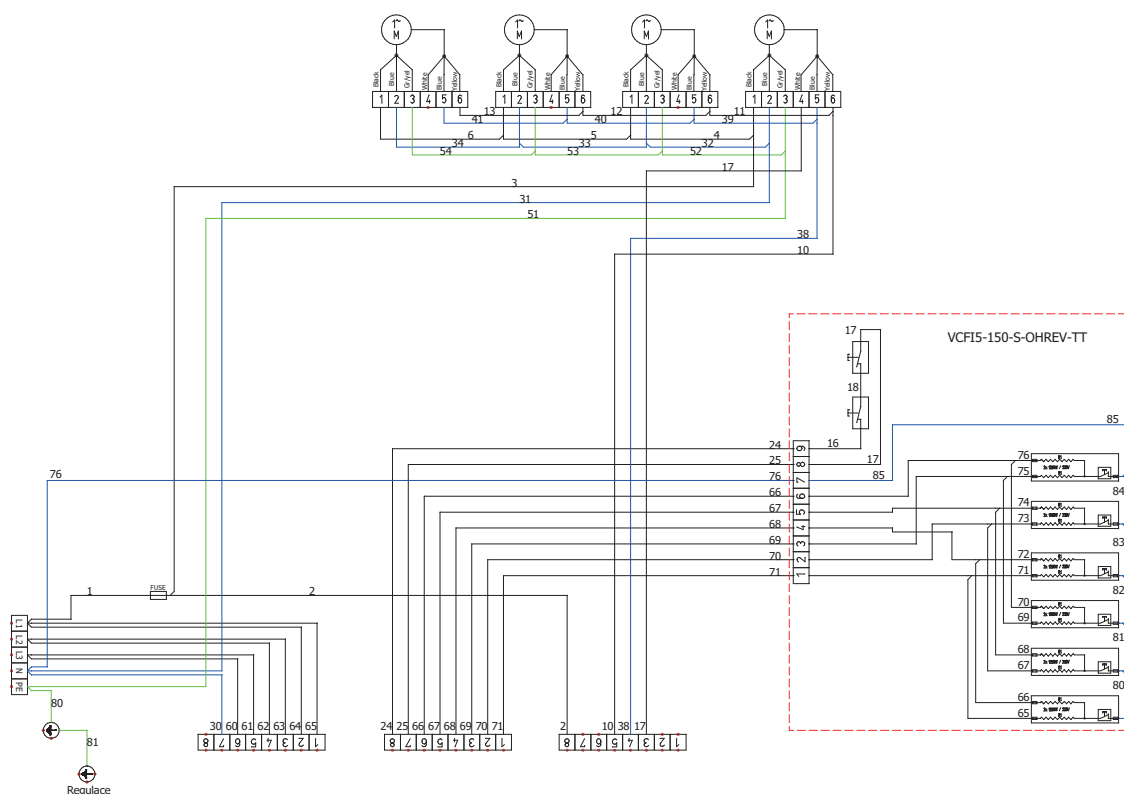


VCFI5C-100-E1-EC (with electric heater)



EC fans

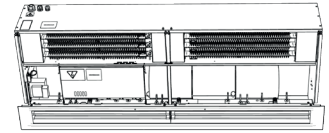
VCFI5C-150-E1-EC (with electric heater)



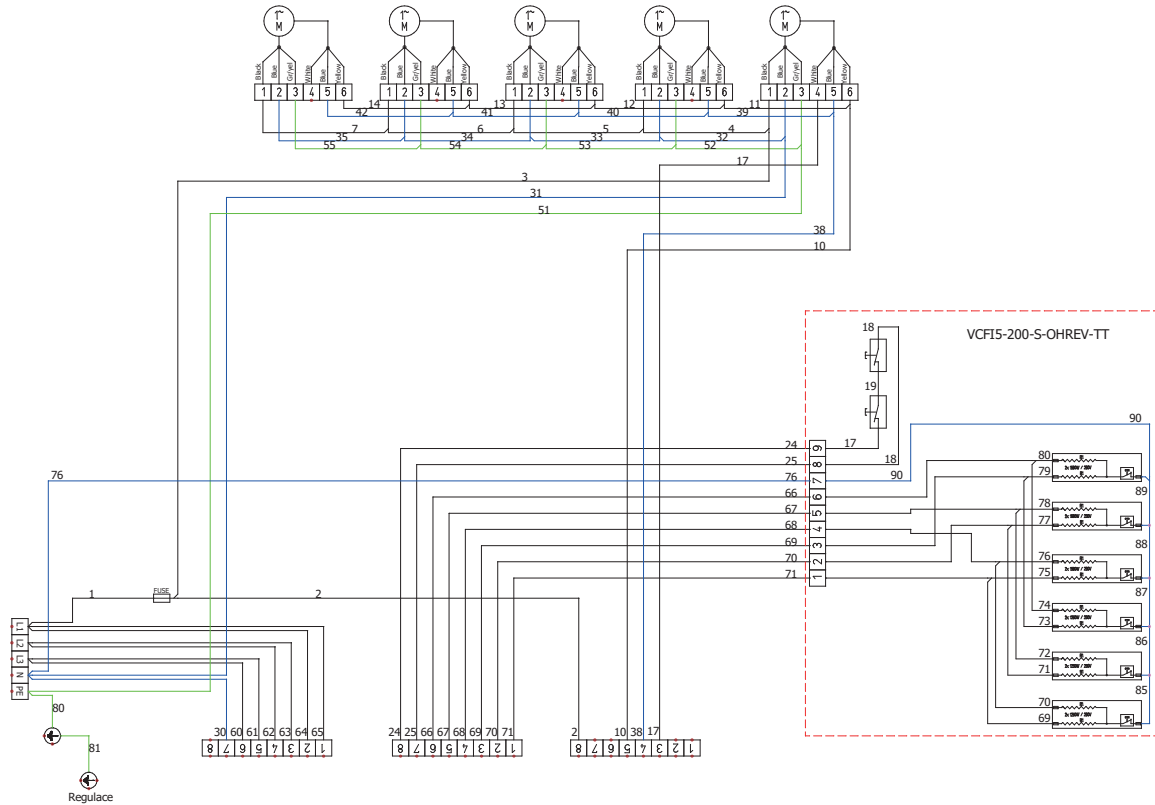


# 13. ELECTRICAL SCHEMES

AIR CURTAIN WITH EC FANS (VCFI5 C)

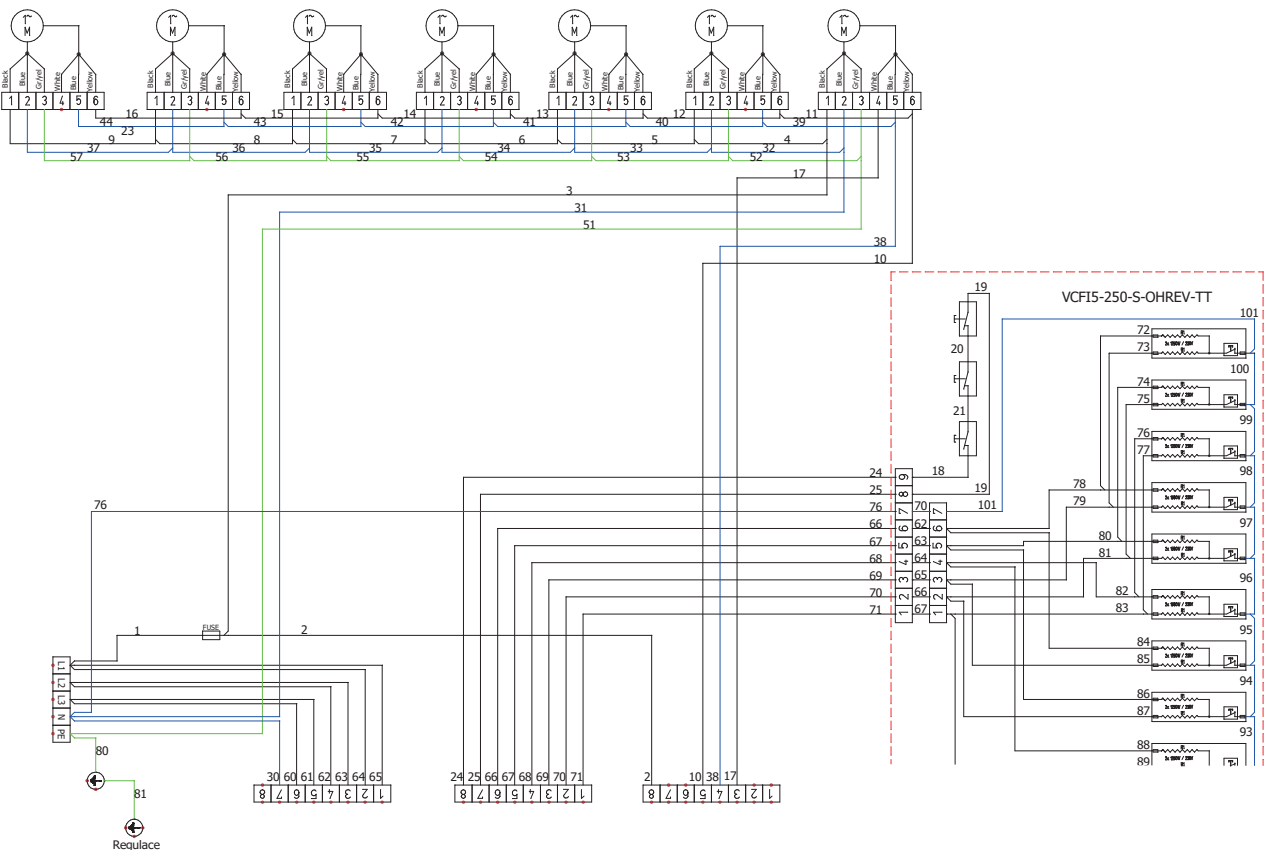


VCFI5C-200-E1-EC (with electric heater)



EC fans

VCFI5C-250-E1-EC (with electric heater)



## 14. CONCLUSION

After installing the air curtain, read carefully the **Manual for the appropriate regulator**. In case of any doubt or query, do not hesitate to contact our sales or technical support departments.

### **CONTACT**

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Nádražní 794  
533 51 Pardubice - Rosice  
Czech Republic

**Internet:**

<http://www.2vv.cz/>

