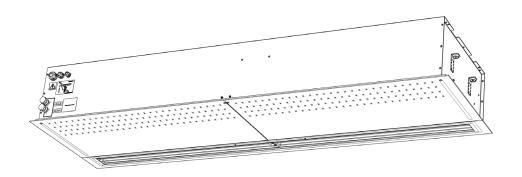


EN

FINESSE EC

INSTALLATION







1. BEFORE YOU BEGIN

Meaning of symbols in the manual:

SYMBOL		MEANING	
\triangle	ATTENTION!	Warning/caution	
Q	DO NOT OVERLOOK!	Important instructions	
1	YOU WILL NEĚD NOTE	Practical tips and information	
STATES OF THE PARTY OF THE PART	TECHNICAL INFORMATION	More detailed technical information	
	LINK	Refer to other parts/sections of the manual	



Before installation, thoroughly read the section "Safe use of air curtains". It contains all instructions on the safe and correct use of the product.

This manual contains important instructions to ensure correct installation of the air curtain. Before installation, read all of the following instructions thoroughly and then adhere to them! The manufacturer reserves the right to make changes, including to technical documentation without prior notice. Save this user manual for further use. The instructions in this manual are a part of the product.

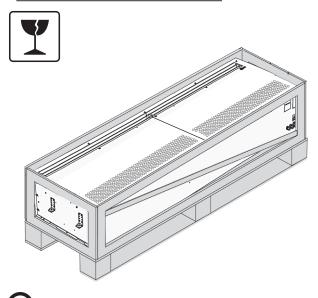
Statement of compliance

You will find the details at the www.2vv.cz website



2. UNPACKING

2.1 CHECK THE SHIPMENT



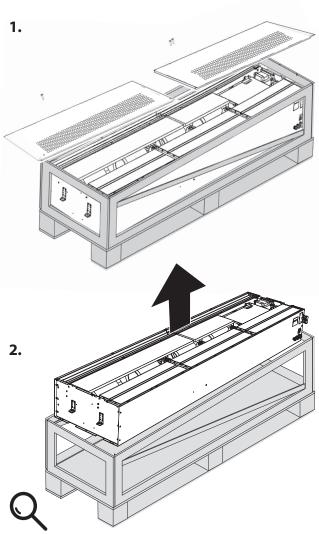
- After delivery, immediately check to see if the packaged product is damaged. If the packaging is damaged contact the delivery service. If the complaint is not fi led in time, your claim may not be valid later.
- Check to see if it is the same product you orderot. If there are any discrepancies, do 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 storot in a dry indoor environment with an ambient temperature between +5 °C and +40 °C



2.2 UNPACK THE AIR CURTAIN



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



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 te perature to stabilise.



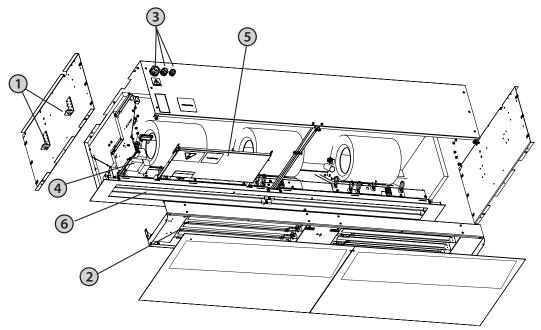
All used packaging materials are environmentally friendly and may be reused or recycled.

Take an active part in environmental protection and see that packaging materials are correctly disposed of or repurposed.



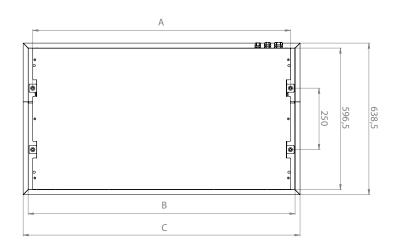


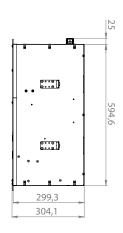
3. MAIN PARTS



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

4. DIMENSIONS





Туре	Spacing of installation	Length B	Length of cover C
	holes A [mm]	[mm]	(mm)
VCFI4x-100-x	1085	1124,1	1166,1
VCFI4x-150-x	1585	1624,1	1666,1
VCFI4x-200-x	2085	2124,1	2166,1
VCFI4x-250-x	2465	2504,1	2546,1



5. TECHNICAL PARAMETERS

Туре	Total power input [kW]	Total voltage/ current [V/A]	Frequency [Hz]	Weight [kg]* ⁴
VCFI4B100-S0EC	0,36	230/2,4	50/60	30
VCFI4B150-S0EC	0,54	230/3,5	50/60	41
VCFI4B200-S0EC	0,71	230/4,4	50/60	54
VCFI4B250-S0EC	0,85	230/5,4	50/60	63
VCFI4B100-E1EC	9,77	400/16	50/60	34
VCFI4B150-E1EC	15,54	400/25,2	50/60	45
VCFI4B200-E1EC	19,71	400/31,9	50/60	61
VCFI4B250-E1EC	25,35	400/40,8	50/60	73
VCFI4B100-V2EC	0,35	230/2,4	50/60	34
VCFI4B150-V2EC	0,52	230/3,3	50/60	45
VCFI4B200-V2EC	0,73	230/4,3	50/60	61
VCFI4B250-V2EC	0,84	230/5,3	50/60	74
VCFI4C100-S0EC	0,55	230/3,5	50/60	33
VCFI4C150-S0EC	0,72	230/4,4	50/60	43
VCFI4C200-S0EC	0,90	230/5,3	50/60	58
VCFI4C250-S0EC	1,20	230/7,3	50/60	67
VCFI4C100-E1EC	9,96	400/17	50/60	36
VCFI4C150-E1EC	15,72	400/26	50/60	48
VCFI4C200-E1EC	19,90	400/32	50/60	65
VCFI4C250-E1EC	25,7	400/42	50/60	77
VCFI4C100-V2EC	0,53	230/3,5	50/60	36
VCFI4C150-V2EC	0,71	230/4,2	50/60	48
VCFI4C200-V2EC	0,90	230/5,4	50/60	65
VCFI4C250-V2EC	1,20	230/7,3	50/60	78
VCFI4C100-V6EC	0,53	230/3,4	50/60	41
VCFI4C150-V6EC	0,71	230/4,4	50/60	58
VCFI4C200-V6EC	0,85	230/5,3	50/60	77
VCFI4C250-V6EC	1,18	230/7,3	50/60	95

^{*} At the maximum air flow and maximum heater power

 $^{^{12}}$ Intake air temperature +18°C, water temperature gradient of 90/70 °C and highest fan speed.

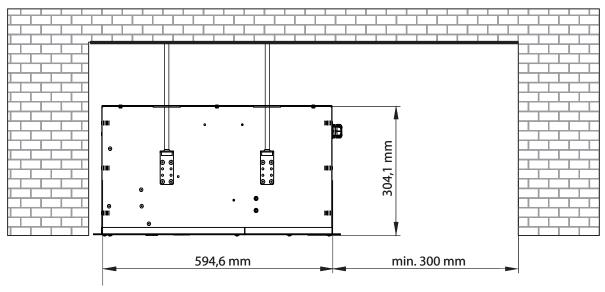
¹³ Intake air temperature +18°C, water temperature gradient of 40/30 °C and highest fan speed.

^{*4} Weight without controls.



6.1 CHOOSE THE INSTALLATION SITE AND INSTALL THE AIR CURTAIN

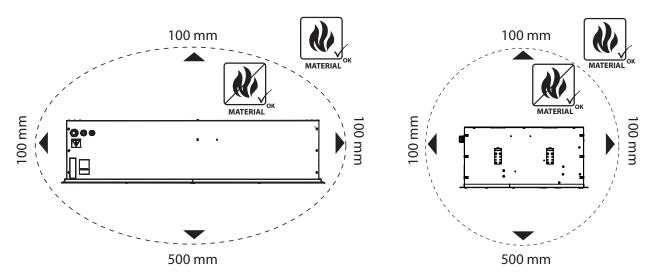
6.1-1 Built up dimensions





- 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, coverot indoor spaces with an ambient temperature between $+5^{\circ}$ C and $+40^{\circ}$ 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.

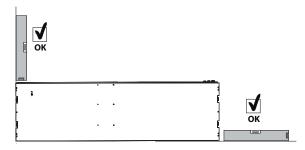
6.1.-2 Clearance distance

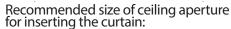




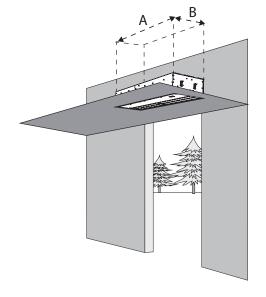
6.1-3 Measure the installation site

- 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.



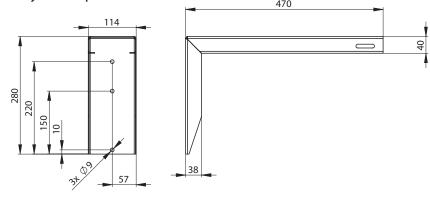


Time	Α	В
Туре	[mm]	[mm]
VCFI4x-100EC	1140	620
VCFI4x-150EC	1640	620
VCFI4x-200EC	2140	620
VCFI4x-250EC	2520	620

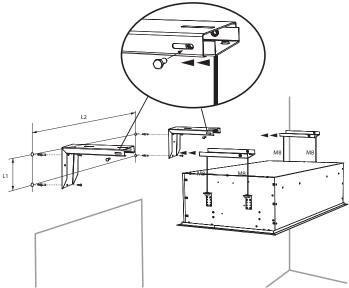


- Air curtain is fixed to the ceiling by 4 threaded rods, which are not included delivery.
- It is necessary to ensure proper in the supply at the site according to the exact type of use of the air curtain and based on its electric parameters.
- · When using water heated air curtain, please ensure connection 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").

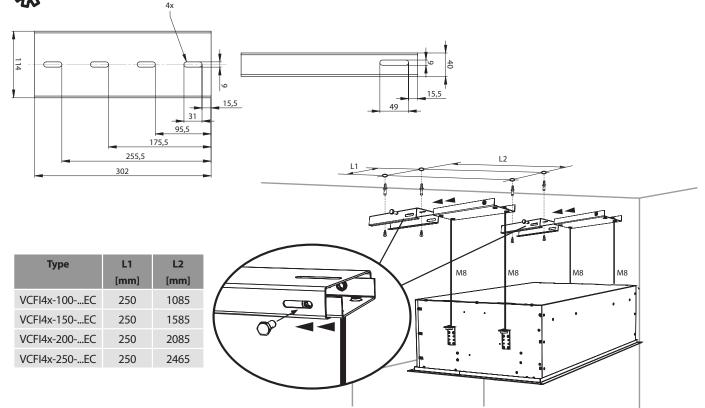
For wall installation use "Wall mounted bracket set": VCS4-KONZ-STE. "Wall mounted bracket SET" has to be ordered separately as an optional accessorie.







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



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!



6.2 CONNECT THE WATER INTAKE AND OUTLET HOSES

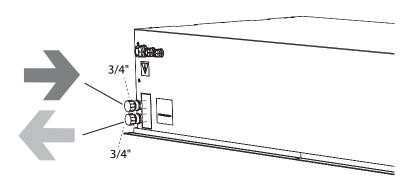
VCFI4x-x-xxx-V-...



· 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 .

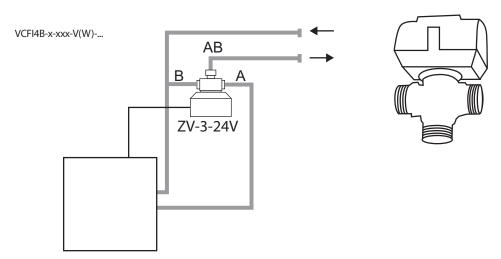




6.2-1 Regulating the water coil with an zone valve ZV-3-24V (Air curtains with water coil and SUPERIOR control module)



Zone valve ZV-3-24V is an required accessorie for control module Supply 24 V/ 50/60 Hz, control tension 0-10V



Detailed description of water coil regulation by zone valve (ZV-3-24V), including it's connection, refer the instruction manual for zone valve ZV-3-24V.



6.4 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.



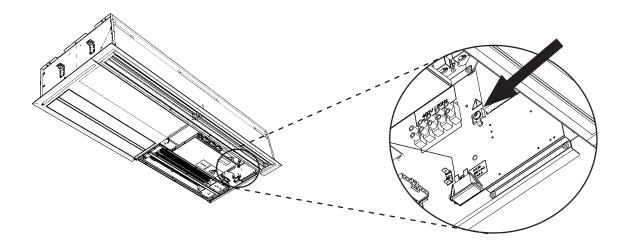
 Special attention should be paid to the capacity of the distribution network of the air curtain with electric heater in terms of the supply of the appropriate phase current values for limiting the voltage fluctuations and flickering in the network.

Fuse specification:

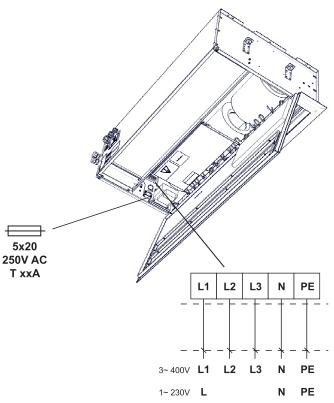
VCFI4-x-xxx		х
		В
жж	100	3,15A
	150	4A
	200	6,3A
	250	8A



Each curtain must be additionally grounded by the corresponding protective earthing conductor (PE) (the same cross section of the supply cable or larger)









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

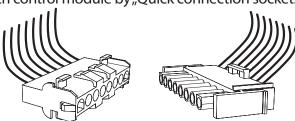
- The air curtain must be pRotected by an appropriate circuit breaker, in accordance with its electrical parameters. For safety reasons, over-designed protection is not recommended.
- The air curtain must be connected using the TN-S system, which means that the neutral conductor must always be connected.
- 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.

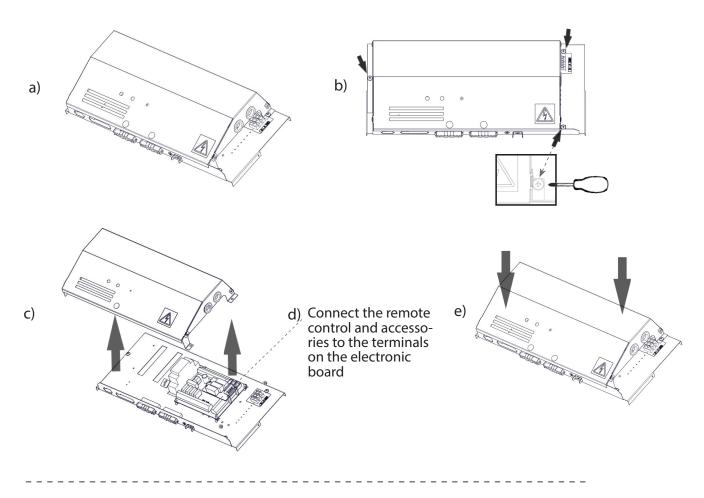
6.5 CONTROL MODULES

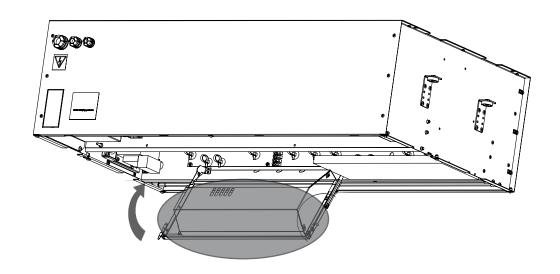
Air curtains FINESSE are produced with universal connection interface. Air curtain is connected with control module by "Quick connection sockets"





Connection to the regulation control panel and accessories





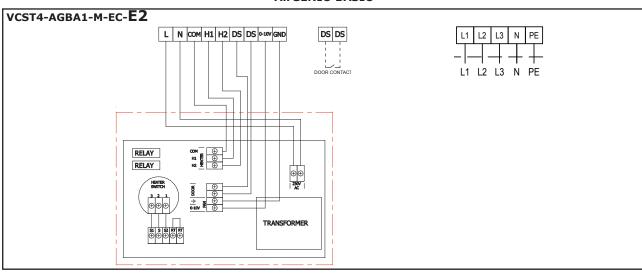


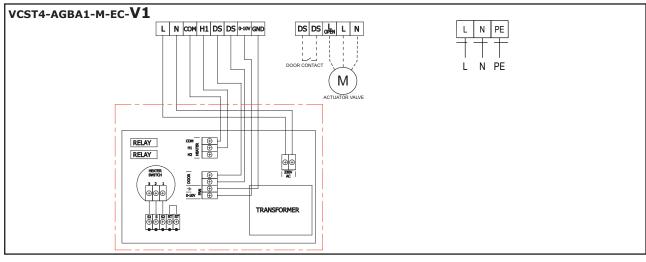


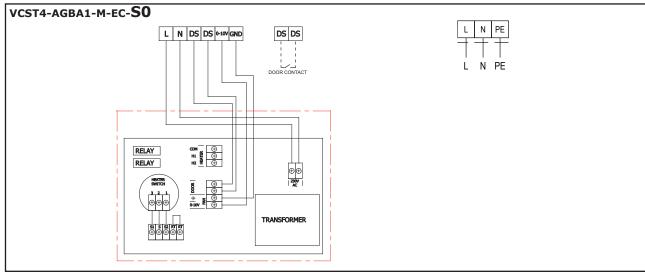
The recommended cross-section of the main power supply cables is stated in the Instruction Manual.

All wiring diagrams provided in the technical catalog are indicative only. When assembling the product, carefully observe the nameplate ratings as well as directions and diagrams affixed directly to the product or enclosed with the product.

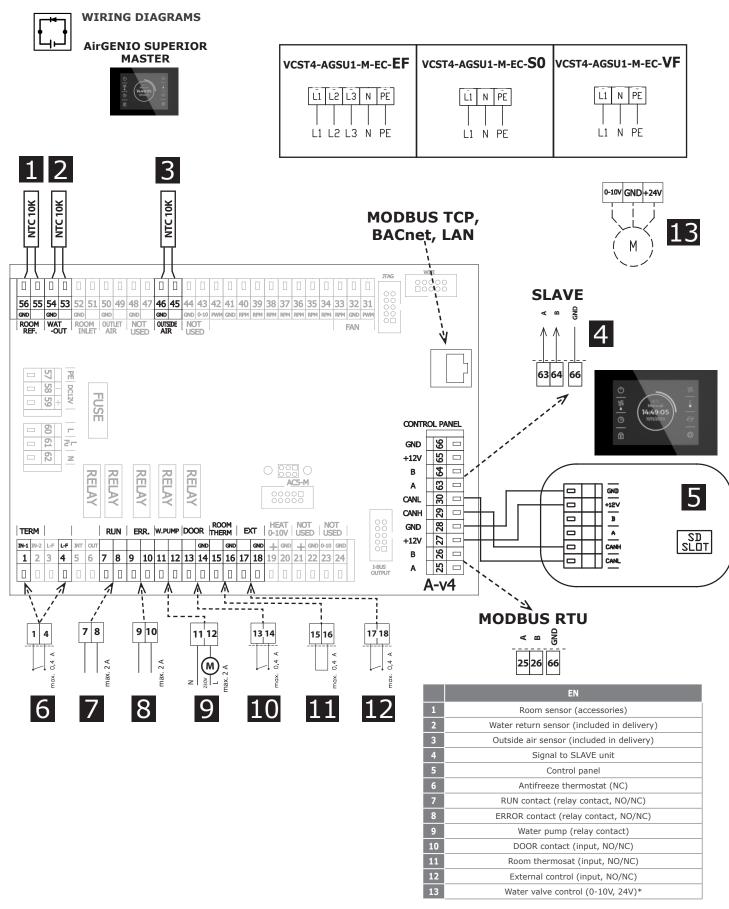
AirGENIO BASIC











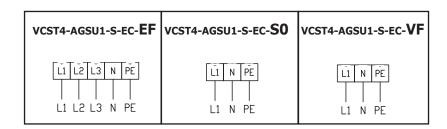
^{*} Available for VCST4-AGSU1-M-EC-VF only



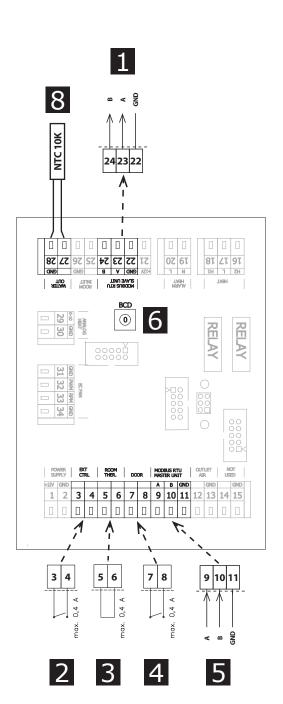


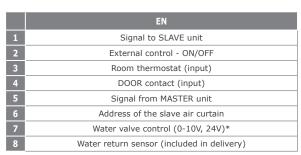
WIRING DIAGRAMS

AirGENIO SUPERIOR SLAVE

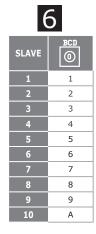


0-10V GND +24V

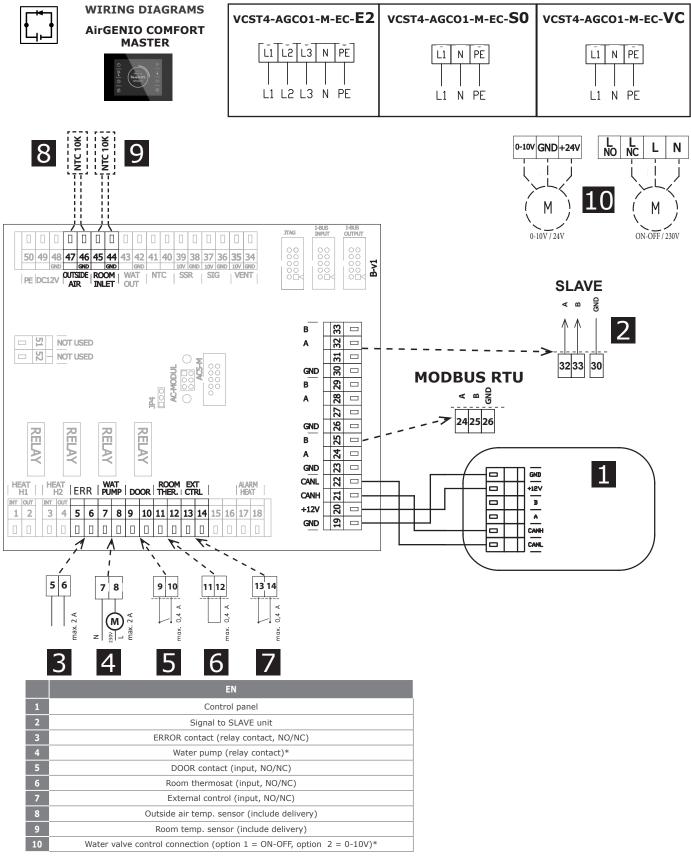




^{*} Available for VCST4-AGSU1-S-EC-VF only





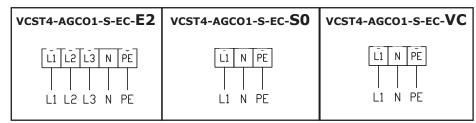


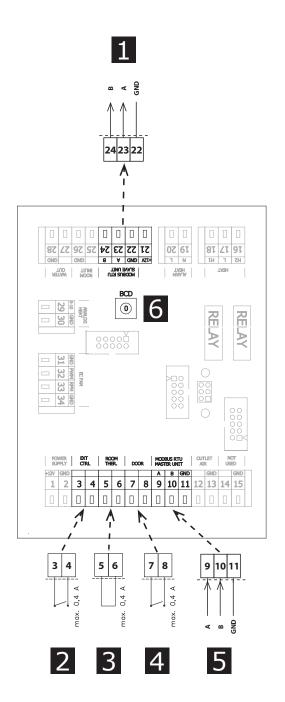
^{*} Available for VCST4-AGCO1-M-EC-VC only

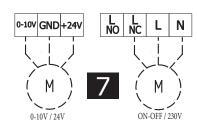




WIRING DIAGRAMS
AirGENIO COMFORT
SLAVE







	EN
1	Signal to SLAVE unit
2	External control - ON/OFF
3	Room thermostat (input)
4	DOOR contact (input)
5	Signal from MASTER unit
6	Address of the slave air curtain
7	Water valve control connection (option 1 = ON-OFF, option 2 = 0-10V)*

^{*} Available for VCST4-AGCO1-S-EC-VC only



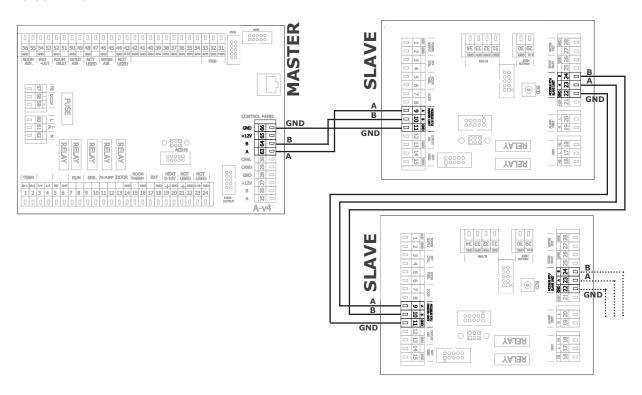
SLAVE	BCD
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	А



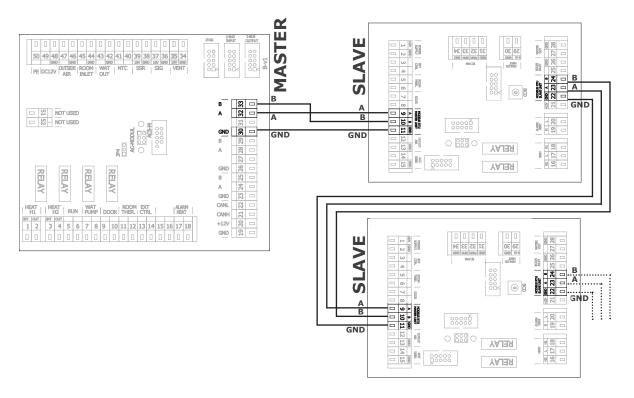


WIRING DIAGRAMS Chaining

AirGENIO SUPERIOR



AirGENIO COMFORT





6.6 EXIT SIGN



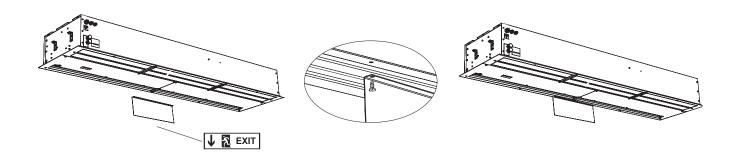


- Exit sign marking of emergency exit

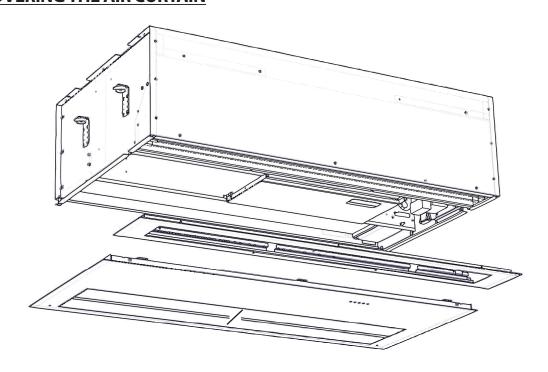
For all types of VCFx- air curtains!



Not included in delivery.



6.7 COVERING THE AIR CURTAIN





7. INITIAL START-UP

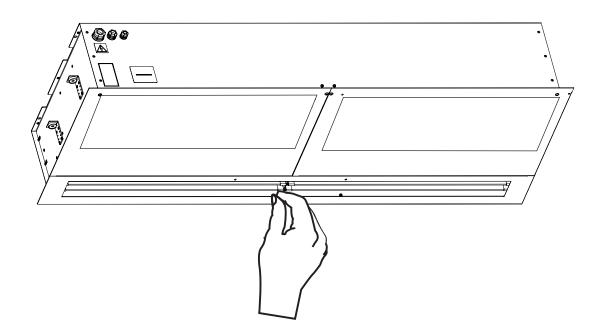
Before starting up the unit check that:

- · 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

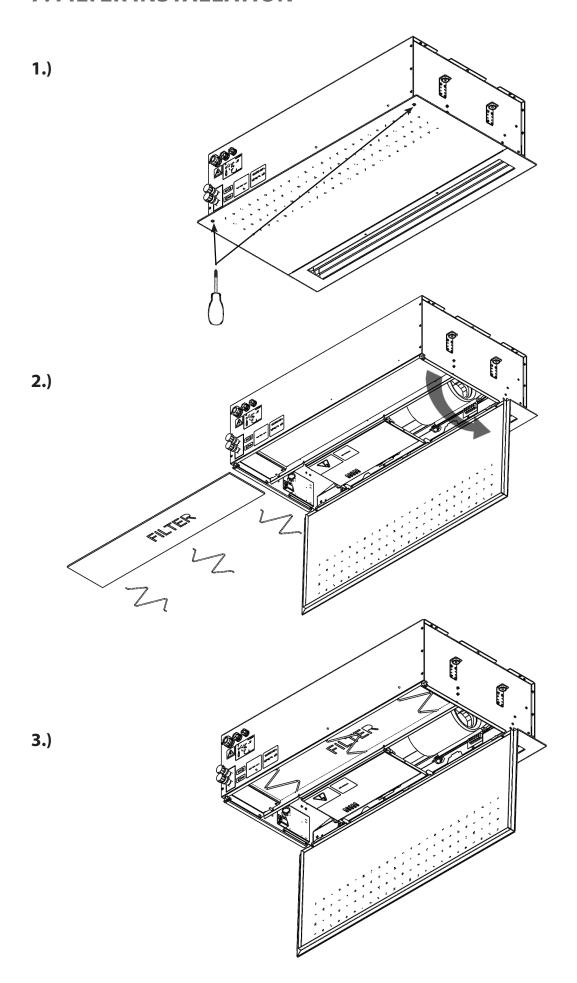
7. SET AIR FLOW DIRECTION

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





7. FILTER INSTALLATION





8.

8.1 CLEANING



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. SERVIS

9.1 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.

9.2 PUTTING THE PRODUCT OUT OF OPERATION - DISPOSAL

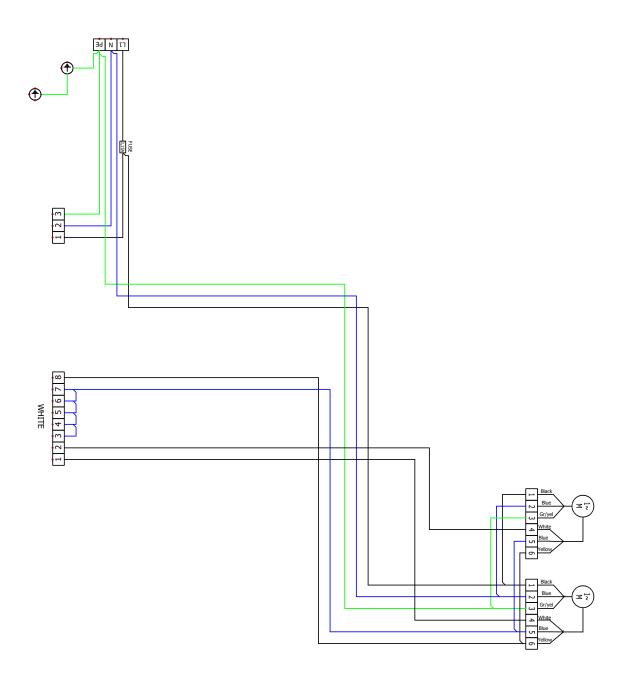
Before disposing of the product, make the product unusable. Even old products contain raw materials that can be reused. Take them to a collection point of secondary raw materials.

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.

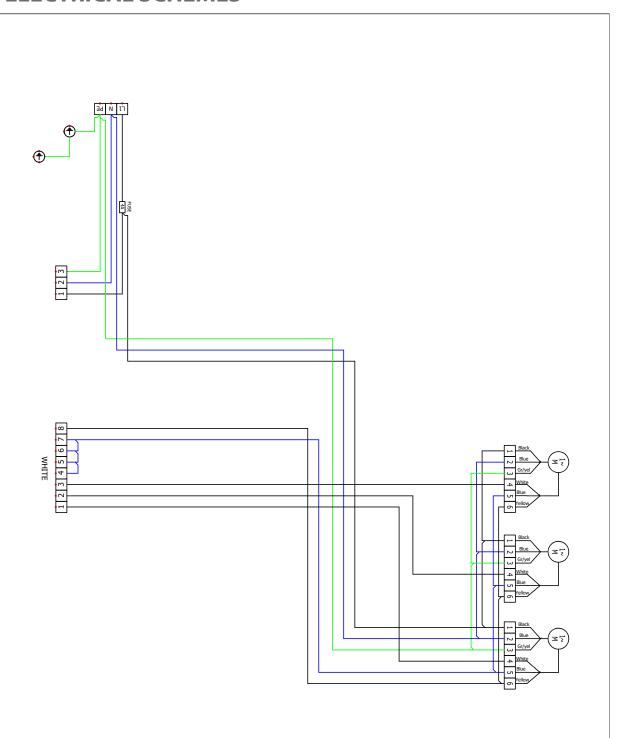




When disposing of materials, it is necessary to observe the relevant national regulations on waste disposal.

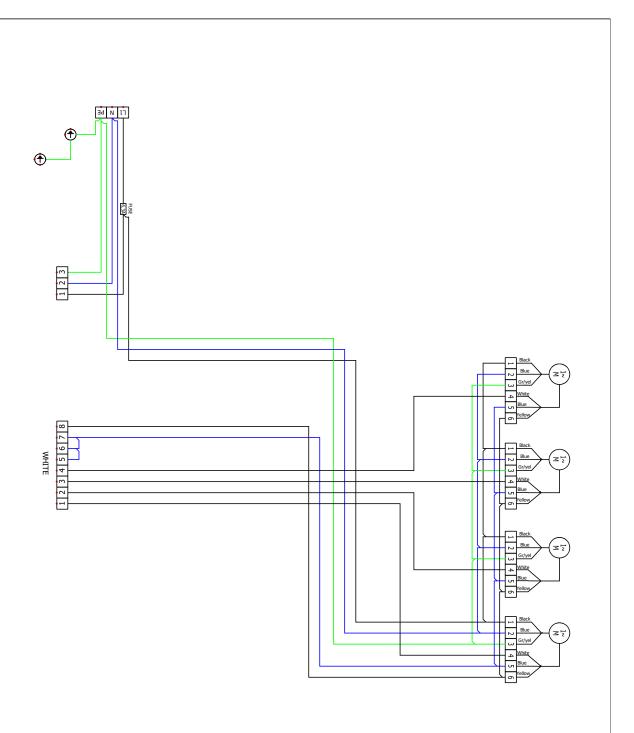


VCFI4-B-100-S-EC



VCFI4-B-150-S-EC





VCFI4-B-200-S-EC

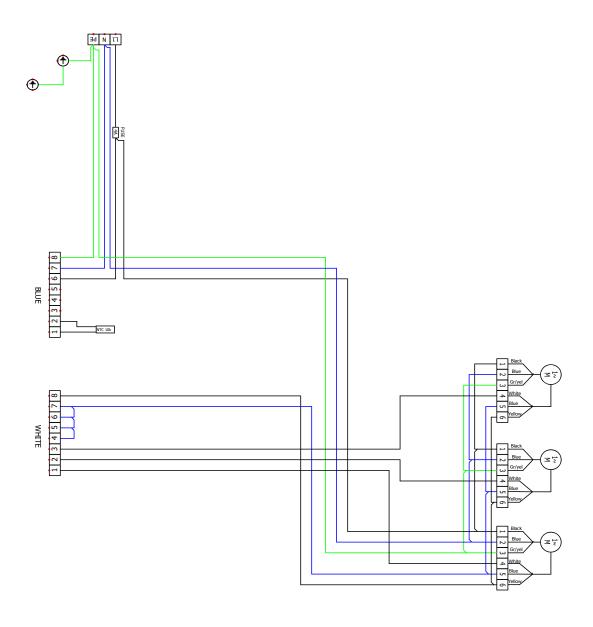
VCFI4-C-250-S-EC

WHITE

VCFI4-B-100-V-EC

27

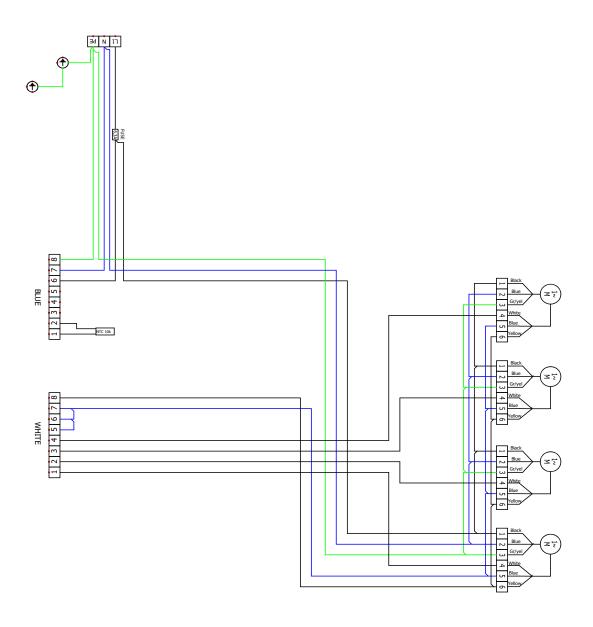




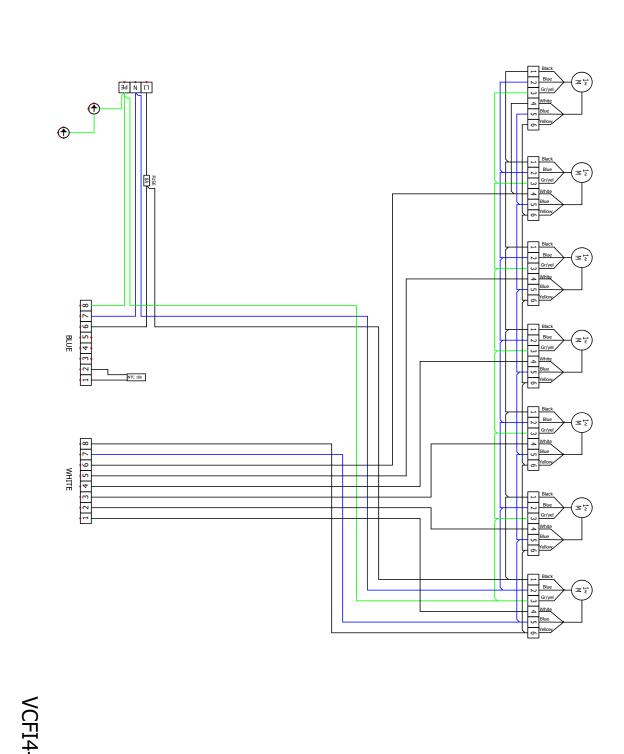
VCFI4-B-150-V-EC

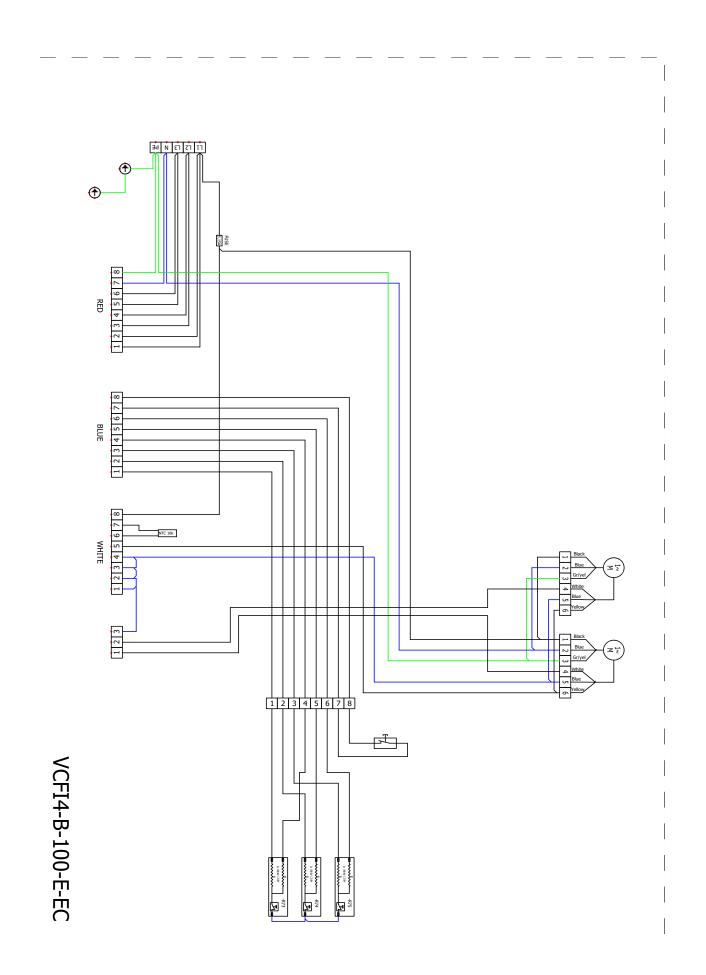
28

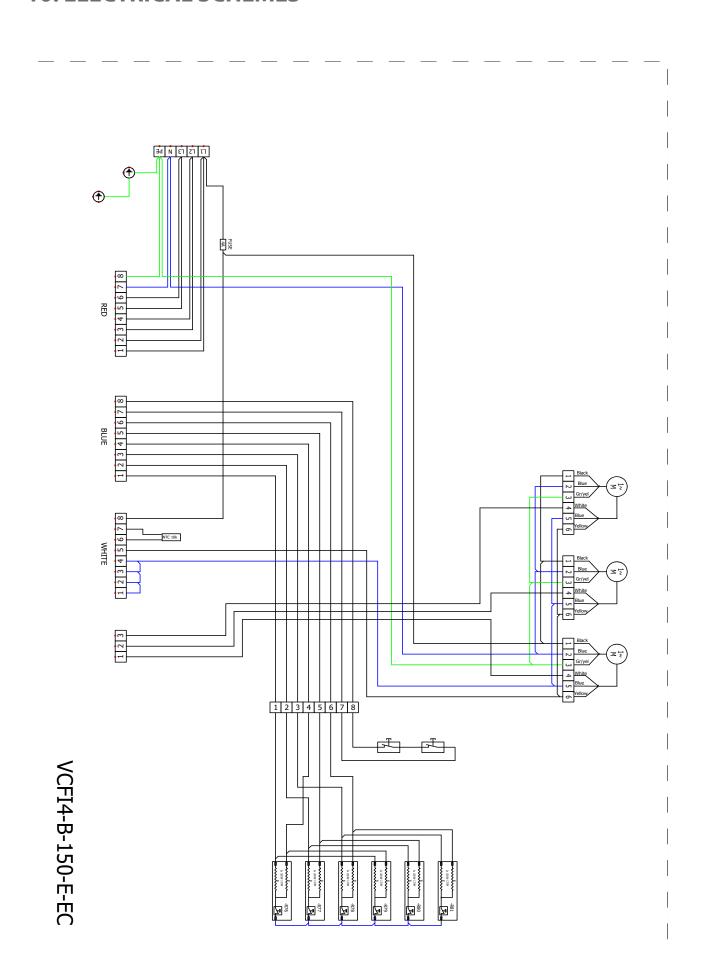


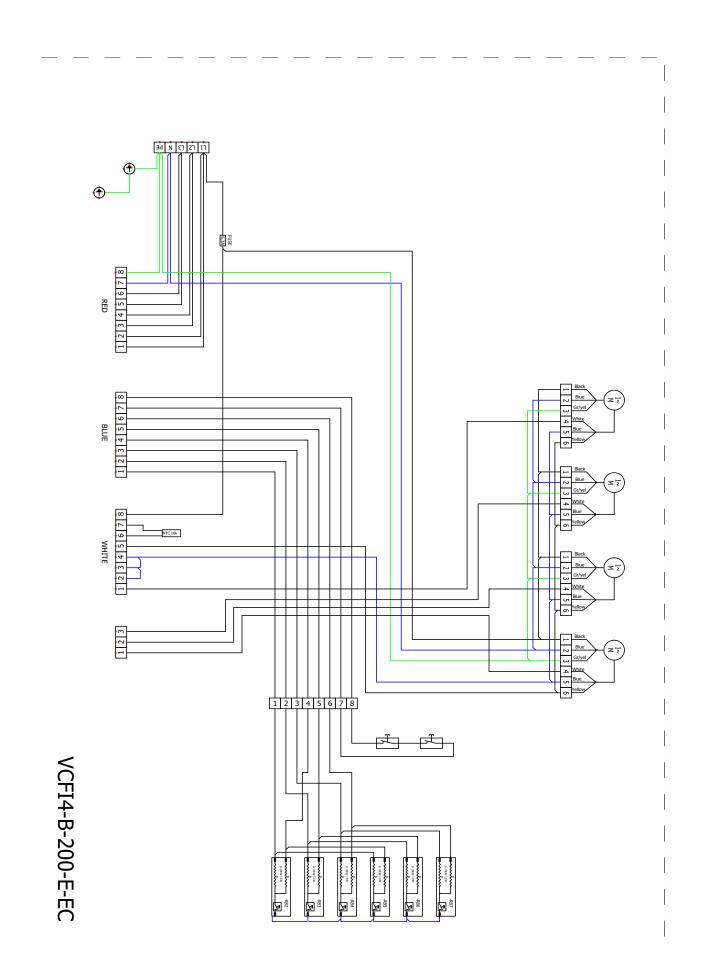


VCFI4-B-200-V-EC









TI F5 F3 N bE **①** RJSE RA RED WHITE

VCFI4-C-250-E-EC



11. 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

Address: 2VV, s.r.o., Fáblovka 568, 533 52 Pardubice, Česká republika

Internet:

http://www.2vv.cz/

