

FINESSE / STANDESSE SUPERIOR control



Installation and operation instructions



CONTROL THE DELIVERY



PLEASE NOTE

Check the product for damages immediately after delivery In case damage on the packaging, contact the carrier Claims not filed in due time will be disregarded.

- Check that it corresponds to the type of product ordered. In case of discrepancy, do not unpack the product and contact the vendor.
- After unpacking, check that the product and all the other components are in good order. In case of doubt, contact the vendor.
- · Do not install a damaged unit!
- If you will not unpack the product immediately after delivery, store it indoors, in a dry place with ambient temperatures between +5 °C and +40 °C.







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.



PACKAGE CONTENTS



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PLEASE NOTE

 If the unit was transported in temperatures lower than 0°C, after unpacking, leave it in operational conditions for at least two hours without activating in order to compensate the inner temperature.

1. INSTALLATION

1.1 CONNECTING THE CONTROL

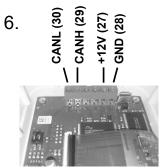


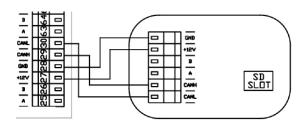






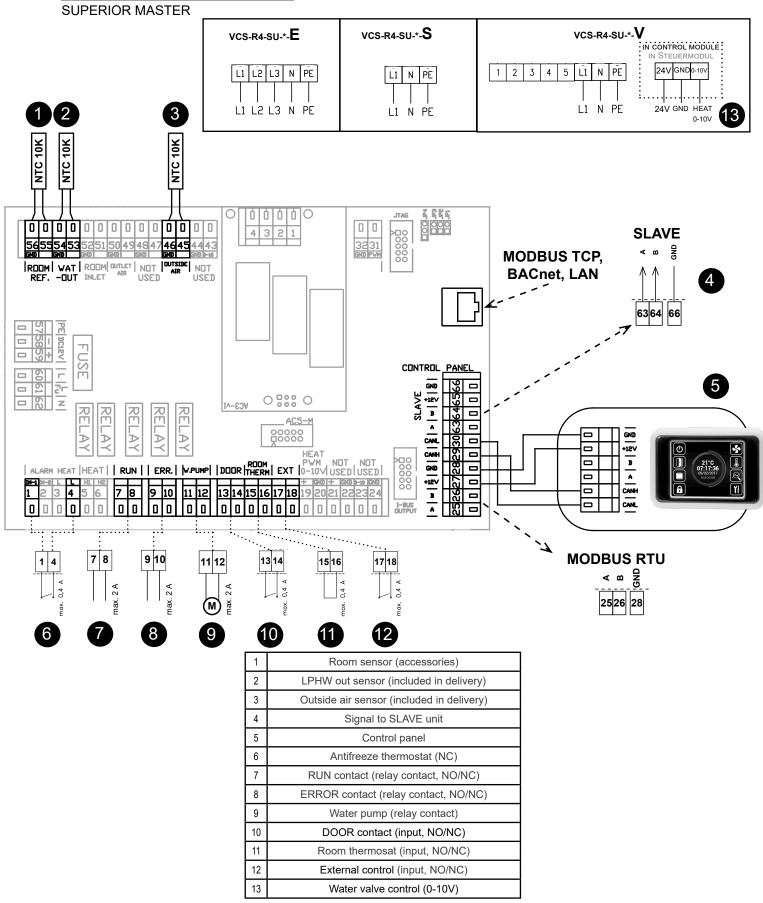






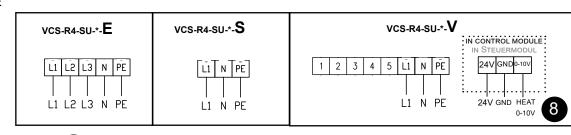
1. INSTALLATION

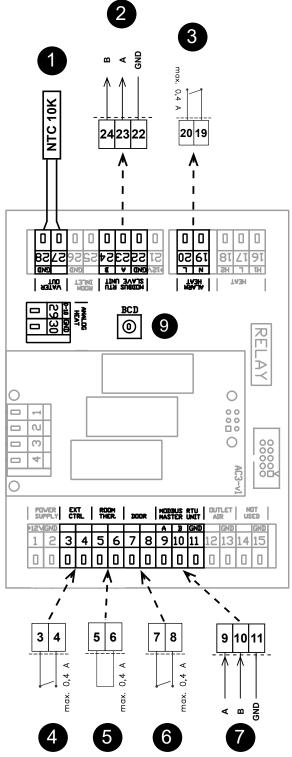
1.2 EXTERNAL ACCESSORIES



1. INSTALLATION

SUPERIOR SLAVE

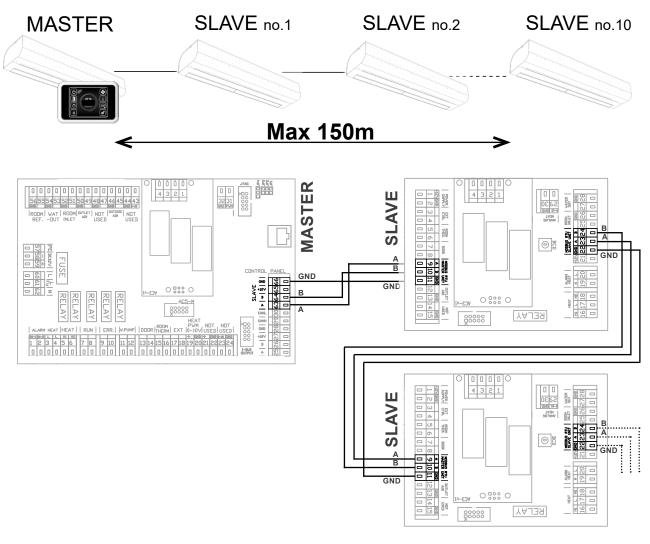




1	LPHW out sensor (included in delivery)
2	Signal to SLAVE unit
3	Antifreeze thermostat (NC)
4	External control - ON/OFF
5	Room thermostat (input)
6	DOOR contact (input)
7	Signal from MASTER unit
8	Water valve control (0-10V)

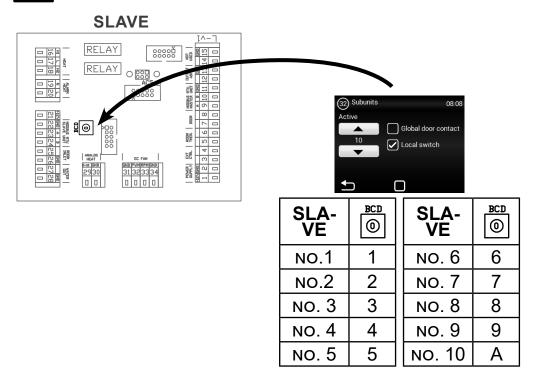
					7
9	SLAVE	(D)	SLAVE	BCD	
1	1	1	6	6	
i	2	2	7	7	l i
1	3	3	8	8	
i	4	4	9	9	l i
1	5	5	10	Α	l !
<u> </u>					

ELECTRICAL DRAWINGS - CHAINING





The total length of all chained air curtains must not exceed 150 m!



2. EXTERNAL ACCESSORIES

2.1 CONNECTING EXTERNAL ACCESSORIES



PLEASE NOTE

- The unit must be disconnected from the power supply to connect accessories.
- All external control components must be connected according to the wiring diagram.
- The connectors must be connected to the electrical board with adequate force and always perpendicular to the base.

2.1-1 DS door contact



TECHNICAL INFORMATION

- suitable for all SM regulation
- Isolated switching contact with maximum voltage 230V, 6A
- IP67, can be connected as a break or switching contact



∠ !\ CAUTION!

Not included with the product.

2.1-2 DK-1 / DK-B3 door contact



** TECHNICAL INFORMATION

- Isolated switching contact with maximum voltage 12V. Cable - Two-core cable with a cross section of 0,5 mm². - Maximum length: 50 m





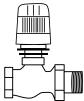
Not included with the product.

2.1-3 Thermostatic valve - TV1/1



TECHNICAL INFORMATION

- Thermostatic valve to regulate the water exchanger
- Suitable for all types of curtain with water exchanger
- Works independent to the electronic controls





Not included with the product.

2.1-4 Zone valve ZV





* TECHNICAL INFORMATION

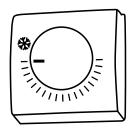
- Zone valve to regulate the water exchanger 0-10V
- Cable Four-core with a cross-section of 0.5 mm² Supply 24 V/ 50/60 Hz (24V external source, not included), control tension 0-10V



Not included with the product.

2. EXTERNAL ACCESSORIES

2.1-5 Room thermostat - TER-P





TECHNICAL INFORMATION

- Room thermostat to regulate heating Cable Two-core cable with a cross-section of 1.5 $\rm mm^2,\,230~V/\,50~Hz.$



Not included with the product.

3. COMMISSIONING



PLEASE NOTE

Before starting up the unit, check the following:

- · Did you leave inside tools or objects that could damage the unit?
- · Is the supply of energy and heating water (if applicable) adequate?
- · Is the unit well closed?
- · Is the control module properly connected?
- · Does the unit have adequate protection according to the applicable standards?



READ CAREFULLY!

Before the initial commissioning, check:

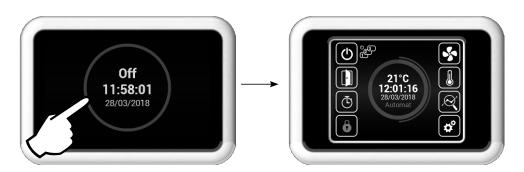
- · that the device is well fastened to the support structure,
- · that the device is properly closed
- that the power supply is properly connected, including the earthing and the external trigger protection,
- · that all the electrical components are securely connected,
- · that the installation complies with all the instructions herein,
- that no tool or any other object that may damage the unit remains within.

CAUTION!

- · Interventions or changes to the internal connections are forbidden and shall result in the loss of warranty.
- We recommend the use of accessories supplied by our company. Contact your supplier in case of doubts regarding the
 use of non-original accessories.

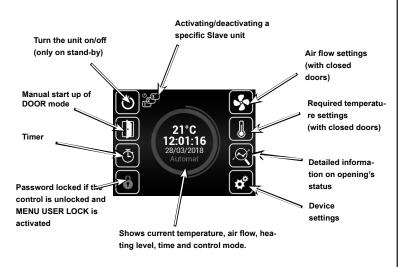
START-UP

After connecting power supply, the display lights up and the data is loaded. The device is ready to be activated once the service data has fully loaded.



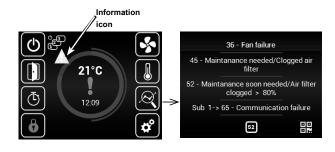
The remote control has a touch screen. The device is controlled tapping the symbols on the screen

Description of main screen



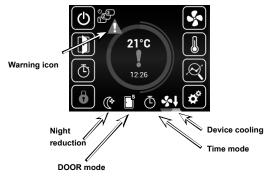
Information icons

They only inform about status, not errors.



Warning icons

They inform about errors. Clicking on them opens a screen with the error report.

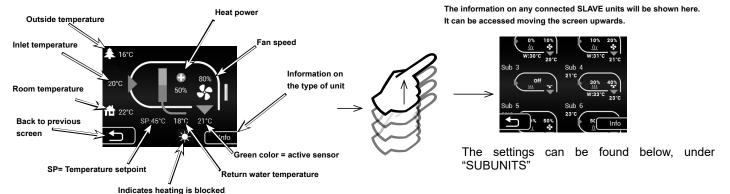




Current status

This screen show the detailed status of the opening and the sensor values:

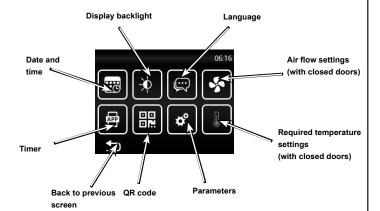
- Current air-flow settings (step or %), information icons
 Air temperature at intake*, exhaust*, room temperature* and outside temperature* (* if the relevant sensors are installed and enabled)
- Heater output settings (if included)





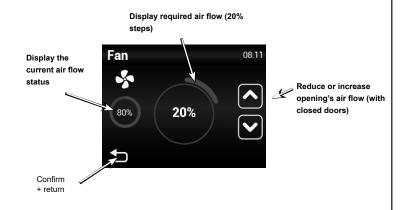
Settings MENU

(summer mode)





Air flow settings with closed doors





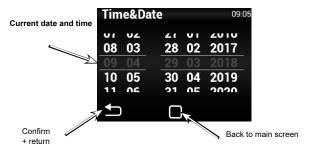
Required temperature settings with closed doors



If the heating is blocked in summer mode (MENU - SUMMER HEATING), the screen will show a "Sun" icon and will not



Date and time settings

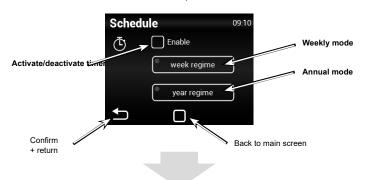




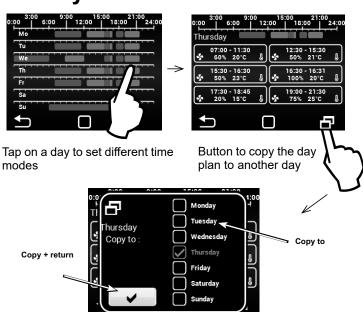
Time

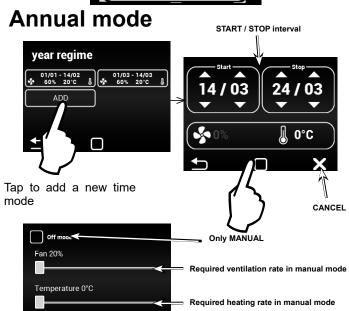


Unless otherwise set, the unit goes on stand-by mode after the timer expires.

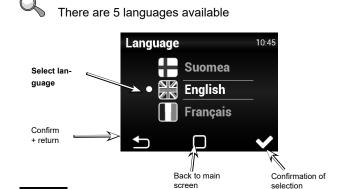


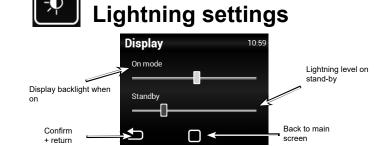
Weekly mode











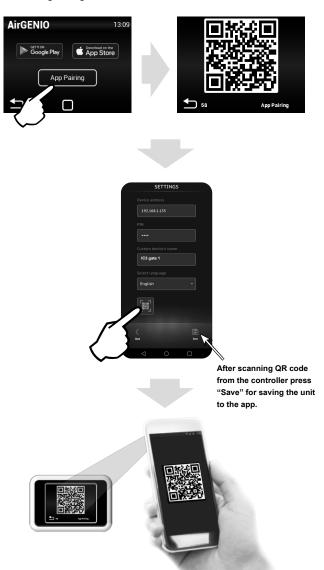




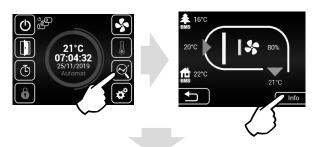
Pairing smart device:

The IP address and PIN of the unit can be entered manually or by using a QR code for quick pairing of the unit.

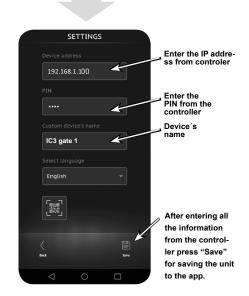
1. Pairing using QR code:



2. Manual pairing:



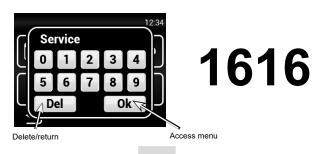




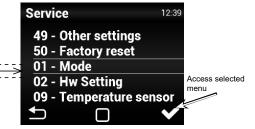


Service menu

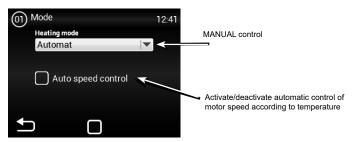
Enter code 1616 to access the service menu







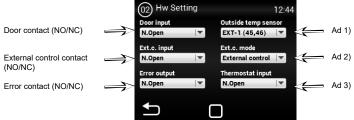
MENU - MODE



Setting AUTO or MANUAL may block/unblock certain items in the service menu.

MENU - HW SETTING

Use this menu to set the detailed behaviour of the inputs and outputs of the regulators



Ad 1) - External temperature sensor activation/settings Options:

None - no sensor connected - inactive

EXT-1 (45,46) - sensor connected (must be on terminals 45 y 46)

BMS - sensor active and used from the master system

Ad 2) - Sets the external contact input behaviour. Options:

None - inactive

External control - External switching of device Night reduction - Night reduction on/off

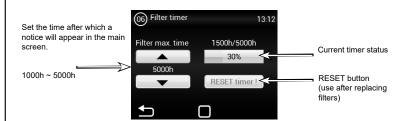
(settings described below)

Ad 3) - Thermostat (NO/NC)

MENU - FILTER TIMER



Use this menu to set the period (in motor hours) after which you will be reminded to replace the filters or reset to timer.



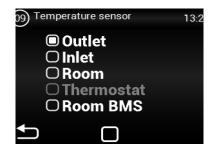
Shows the status of the clogged filter in the main screen



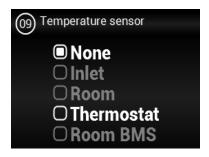
MENU - TEMPERATURE SENSOR

Available only in automatic mode

Use this menu to select the sensor to be used for primary temperature control



Only available in Manual mode.



Options:

Outlet - Temperature sensor at the outlet (behind the exchanger) Inlet – Temperature sensor at the inlet (before the exchanger)

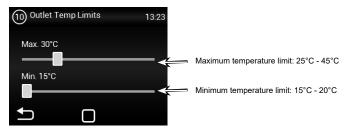
Room - Room temperature sensor

Thermostat - Room thermostat (ON/OFF)

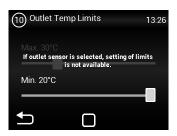
Room BMS - Room temperature sensor from master system

MENU - OUTLET TEMP LIMITS

Use this menu to set the limits of the exhaust



If "OUTLET" is selected in the TEMPERATURE SENSOR MENU, it will not be possible to set values as they are already defined by the sensor. You will see this screen:



MENU - MODBUS RTU

Use this menu to set the Modbus RTU communication parameters

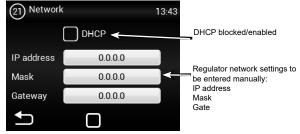


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An incorrect setting may prevent communication with the regulator

MENU - NETWORK

Use this menu to set the communication parameters of the network interface

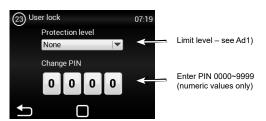


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An incorrect setting may prevent communication with the regulator

MENU - USER LOCK

Use this menu to set the limits to control the regulator with a multi-level panel



Ontions

None - Limit inactive

On/Off – Only On/Off and access to the information menu are

enabled in the main screen

On/Off, Temp, Flow – On/Off, the information menu, and temperature and air flow settings can be accessed without password.

Full – Only the information menu can be accessed without password User mode – Special user mode, see image below

User mode – Special user mode, see image below

MENU - SUMMER HEATING

Use this menu to set heating limits in summer months



If the outside temperature sensor is not set, the "summer heating" mode will operate only according to the selected time and the temperature will not be taken into account

MENU - Night Reduction

This MENU allows for setting reduced temperatures during night hours with closed doors.



In this menu, the reduction of temperature may be set only by five degrees at the set time compared to the set (required) temperature.



Flow open door 70%

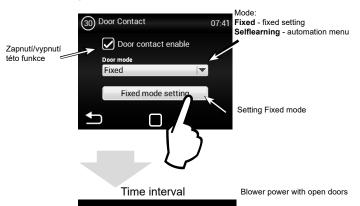
Temperature open door 37°C

Fime on mimimal speed 30s

 \bigcap

MENU - DOOR CONTACT

This MENU allows for setting the behaviour of the regulator according to doors contact



Suspend mode: at a set time, or upon achieving a specific

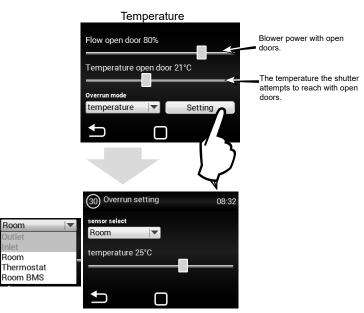
temperature



Time of shutter operation per minimum rotation of the motor from closed doors.

Required temperature with open doors

Time of shutter operation per maximum rotation of the motor from closed doors.



In this menu it is possible to specify which sensor will be active and the temperature the shutter will attempt to reach after closing doors so as to balance temperature loss.

After reaching the set temperature, the shutter transitions into the selected automatic fragular mode.

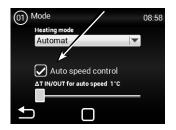
MENU - DOOR CONTACT

MENU Selflearning



Selflearning- available only in automation and active function mode (Auto speed control), depending on the number of open doors it optimises the period in which the shutter is in operation, even when doors are closed.

Must be set to activate Selflearning.



MENU - WATER ANTIFREEZE

The menu is enabled only in units with water exchanger

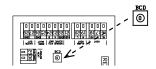


MENU - SUBUNITS

Use this menu to set the behaviour of the IC-S regulators connected as SLAVE



Slave address parameter:



ADDRESS	SLAVE UNIT	ADDRESS	SLAVE UNIT
1	1	6	6
2	2	7	7
3	3	8	8
4	4	9	9
5	5	A	10

Ad 1) – Use one door contact as main. Its status will be sent to the SLAVE regulators and it will no longer be necessary to connect it to each regulator, if required.

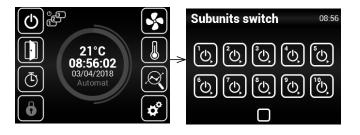


Allowed = the door contact will transmit to the SLAVE regulator from the MASTER

Ad 2) – Activates in the main screen the icon to turn each SLAVE regulator ON/OFF If inactive, all the SLAVE regulators will be turned on or off simultaneously

Not allowed = The SLAVE regulators are turned on/off simultaneously

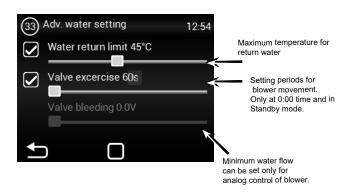
Allowed = The SLAVE regulators can be turned on/off individually form the main screen



MENU - Adv. WATER SETTING

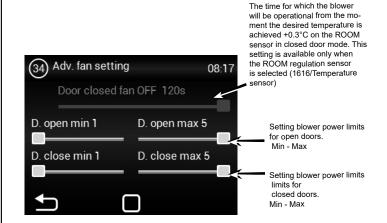


This MENU is available only for units with water heat exchanger it allows for advanced setting of water heat exchanger regulation.



MENU - Adv. fan setting

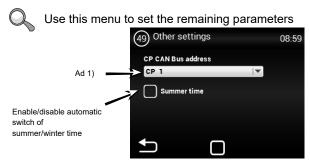
The MENU for setting the blowers when closing and opening doors. It allows for advanced settings of blower control.





The set limits on blower power restrict the extent of blower control for open and closed doors. This restriction is applied to manual and automatic control of blower power. Exceeding limits in any blower power setting is signalled when the setting element turns red with the text overruns.

MENU - OTHER SETTINGS



Ad 1) – Sets the CAN address of the control panel so up to 2 control panels may be connected to the MASTER regulator Options: CP 1 = control panel's address is 1

CP 2 = control panel's address is 2

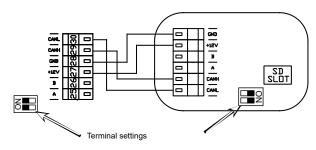
The address is set for each control, which then addressed according to it.



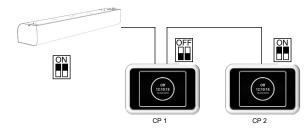
CAUTION!

Each panel must have its own address, otherwise it may result in the malfunction of the regulator.

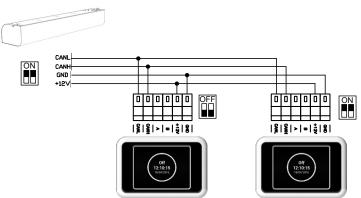
Terminals must be set if multiple panels are to be connected. They are found in the main electronics and the controller:



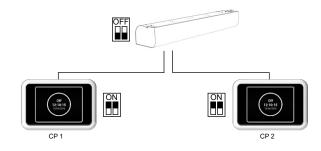
Example of controller connection - Option 1:



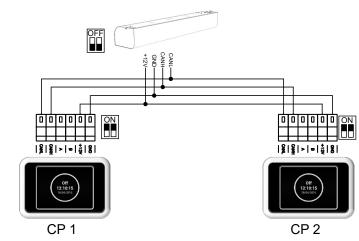
Electric connection – Option 1:



Electric connection - Option 2:



Electric connection - Option 2:



MENU - FACTORY RESET

Use this to reset the default values





default values of MENU 1616

Once completed, we recommend to turn the main supply off and on.



5. MALFUNCTIONS

5.1 MALFUNCTIONS

Disconnect the main power supply before any intervention to the unit. If you are not sure of the correct steps, do not attempt to perform any repairs and call a professional service!

Description	Unit behaviour	Likely problem	Solution
44 – Fan error	Unit out of order	Overheated fan or defect on thermal contact of inlet fan	Determine the cause of the overheating (defective bearing, short-circuit) or replace the motor. Check the thermal contacts from the motor to the regulator.
45 – Mandatory maintenance/filter clogged	Unit operational	Filter clogged or the time to replace it has come	Replace filters. After replacing, do not forget to reset the MENU 1616 – FILTER TIMER
46 – Heater malfunction	Unit out of order	Heater malfunction	Check the heater and the condition of the safety thermostat Does the heater have proper cooling? Check engine running.
47 - malfunction in external temperature sensor (45,46)	Unit out of order	Temperature sensor malfunction on terminals 45,46	Check that the sensor is correctly connected to the electronics or test it measuring its resistance (the resistance value at +20°C is around $10k\Omega$)
48 – Outlet temperature sensor malfunction (49,50)	Unit out of order	Temperature sensor malfunction on terminals 49,50	Check that the sensor is correctly connected to the electronics or test it measuring its resistance (the resistance value at +20°C is around $10k\Omega$)
49 – Inlet temperature sensor malfunction (51,52)	Unit out of order	Temperature sensor malfunction on terminals 51,52	Check that the sensor is correctly connected to the electronics or test it measuring its resistance (the resistance value at +20°C is around $10k\Omega$)
60 – Exchanger's return sensor malfunction (53,54)	Unit out of order	Temperature sensor malfunction on terminals 53,54	Check that the sensor is correctly connected to the electronics or test it measuring its resistance (the resistance value at +20°C is around $10k\Omega$)
61 – Room temperature sensor malfunction (55,56)	Unit out of order	Temperature sensor malfunction on terminals 55,56	Check that the sensor is correctly connected to the electronics or test it measuring its resistance (the resistance value at +20°C is around $10k\Omega$)
62 - malfunction in external temperature sensor from BMS	Limited operation of the device	Temperature sensor malfunction in BMS	Check that in the BMS that the address where the sensors sends the data is properly set (on the right regulator) Check the function of the sensor in the BMS
63 - malfunction in room temperature sensor from BMS	Limited operation of the device	Temperature sensor malfunction in BMS	Check that in the BMS that the address where the sensors sends the data is properly set (on the right regulator) Check the function of the sensor in the BMS
79 – Heating reduced due to low air flow	Unit operational	Only information	The air flow settings were reduced, limiting the heater output to prevent overheating
65 – Communication error	Unit out of order	Communication error	Check the communication cable for damages and if it is properly connected Observe the wiring diagram to prevent occurrences that may disrupt communication (wiring near high tension, phenomena on site causing disruptions)
Unit's not working	Unit	Power supply interrupted	Check that the power supply is not interrupted
	out of order	Cracked fuse	Check the fuse in side the control module
The heating switches off automatically	Unit operational but not heating	The heater overheats	The heater overheats due to insufficient air flow. Check that the ventilators are in good order and that the air supply is not disrupted.

6. MAINTENANCE

6.1 CLEANING

CAUTION!

- · Do not use compressed air, chemicals, solvents or water to clean the unit.
- · Use a soft brush or a vacuum cleaner to clean the suction cover and the inside of the unit.
- · See the installation manual of the ESSENSSE NEO curtain

7. SERVICE

7.1 IF YOU ARE UNABLE TO REPAIR THE UNIT

If you were unable to solve a problem, contact the supplier or the representative of 2VV. Warranty and post-warranty service are provided by the supplier or an authorised service included in the list available at the supplier's.

Give the following information to the supplier or service:

- type designation of the air curtain
- accessories in use
- place of installation
- serial number
- conditions of the installation (incl. electrical)
- period of operation
- detailed description of the malfunction

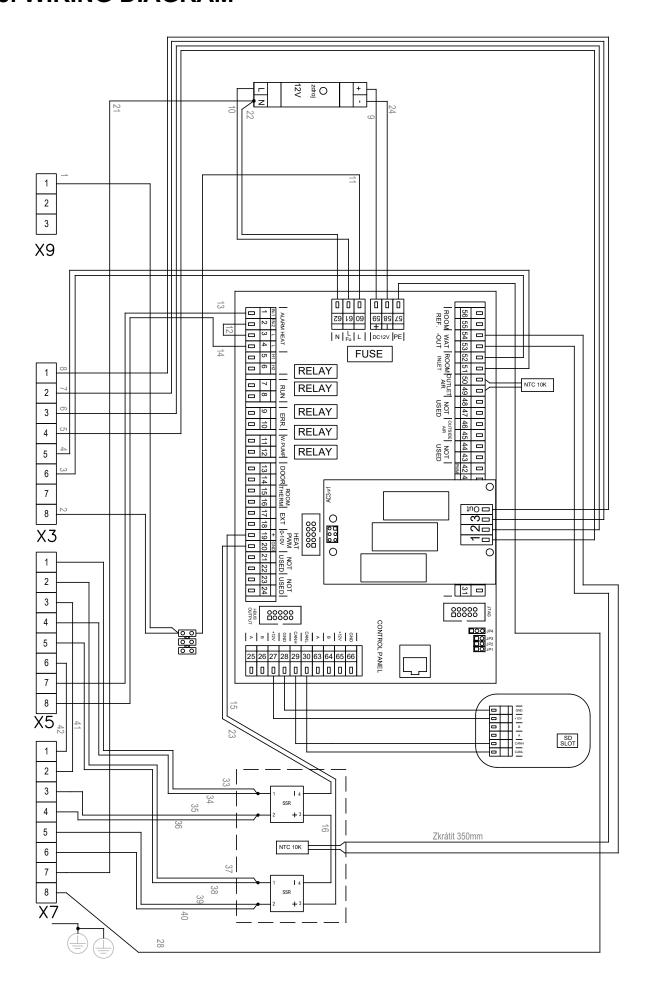
7.2 - DECOMMISSIONING THE PRODUCT - LIQUIDATOIN

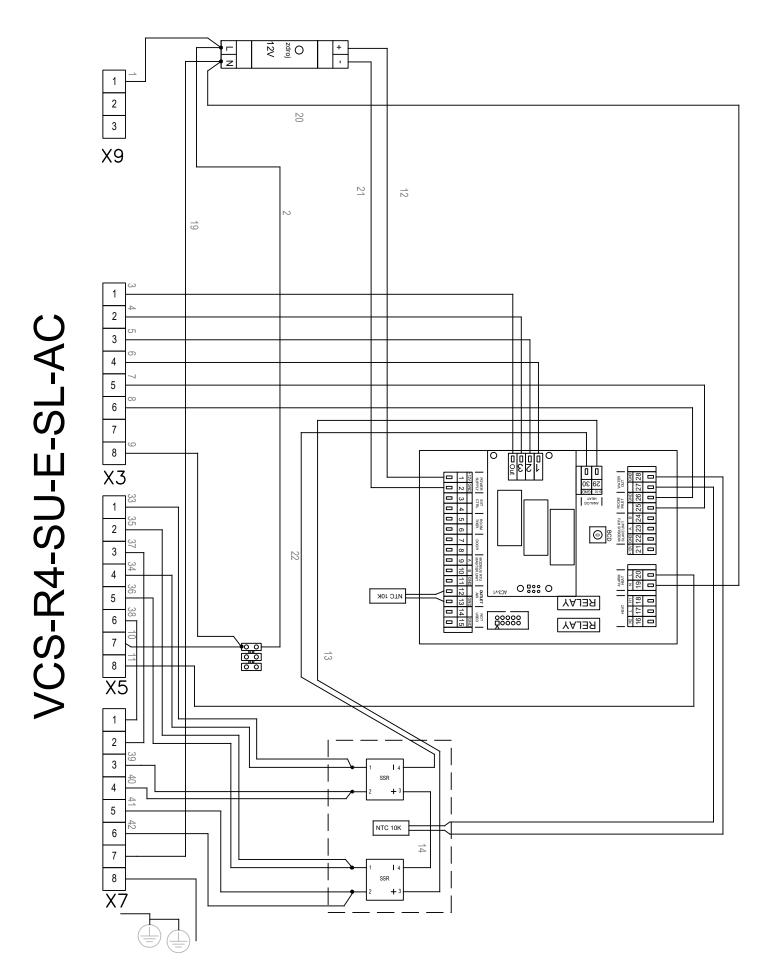
Before scrapping the product, make it unusable. Old products still have raw materials that can be reused. Take them to a collection centre for secondary raw materials. It is preferable to have the product liquidated by a specialist so that the recyclable materials may be reused. Take the unusable parts to an appropriate waste disposal site.

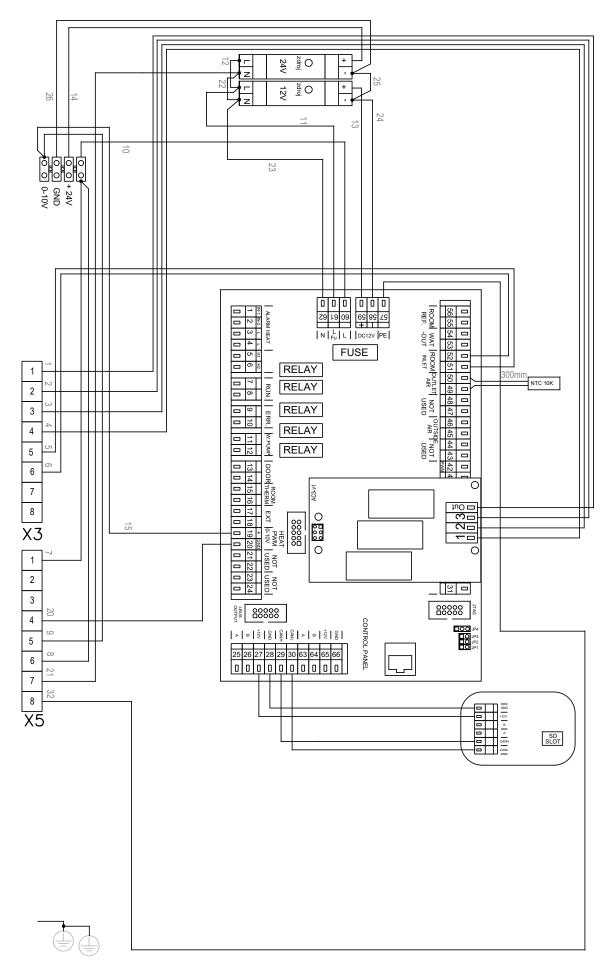


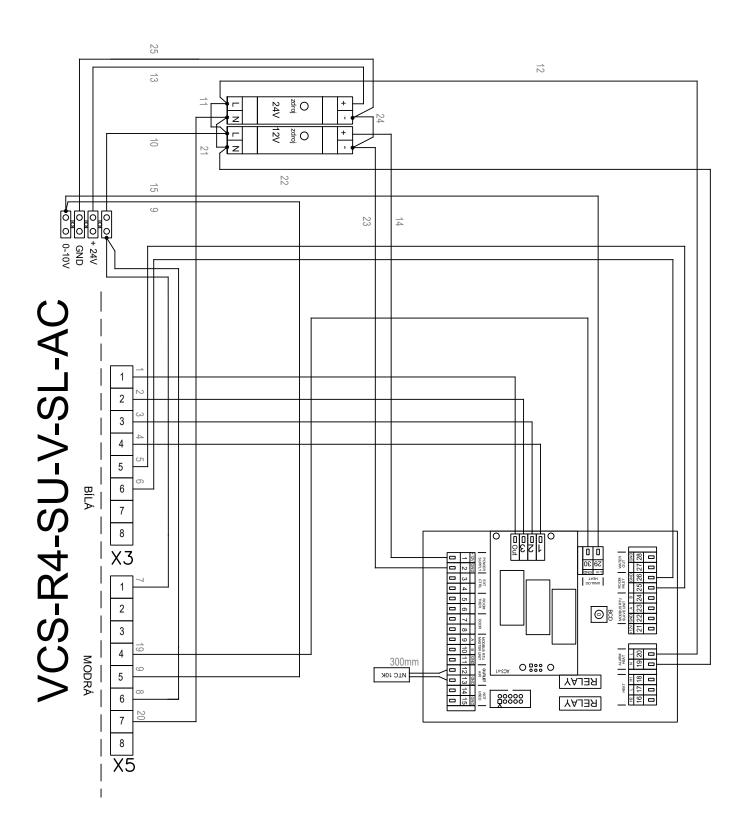


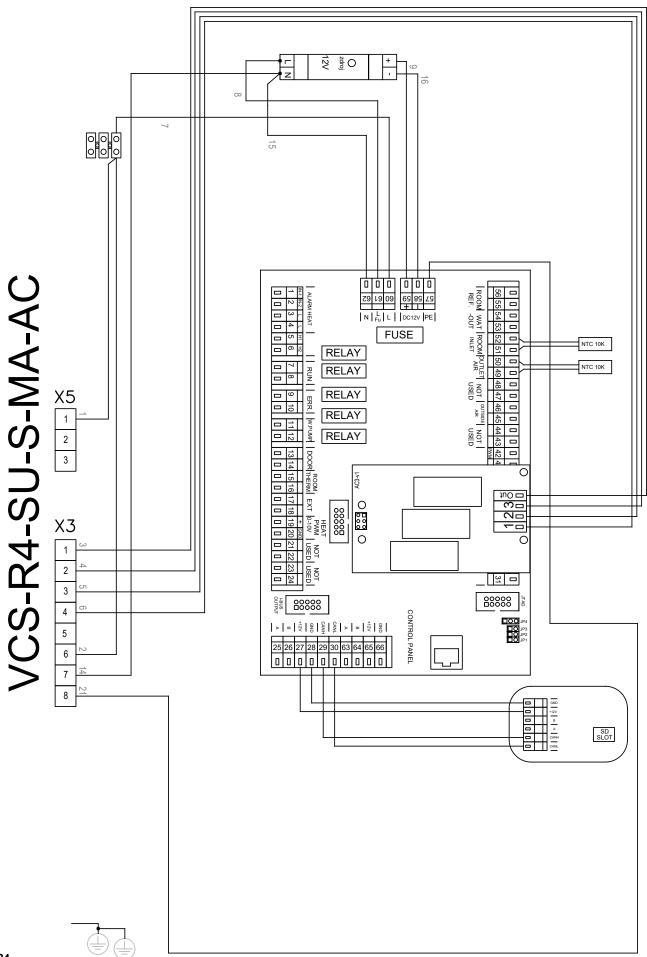
The liquidation of materials must observe the applicable waste management regulations.

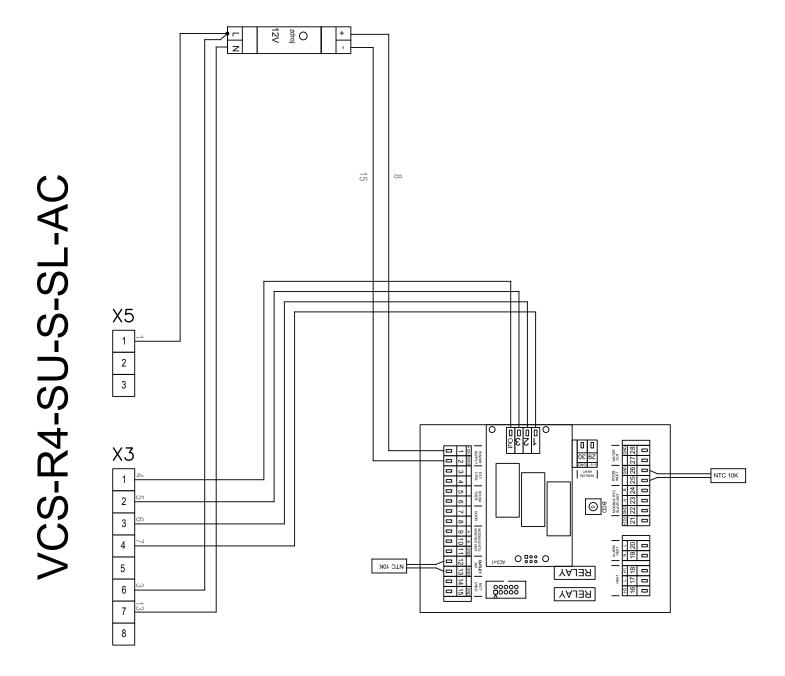












9. CONCLUSION

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In case of any doubt or query, do not hesitate to contact our sales or technical support departments.

CONTACT

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