

VENESSE COMFORT



Installation and operation instructions

C€ [H[



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.



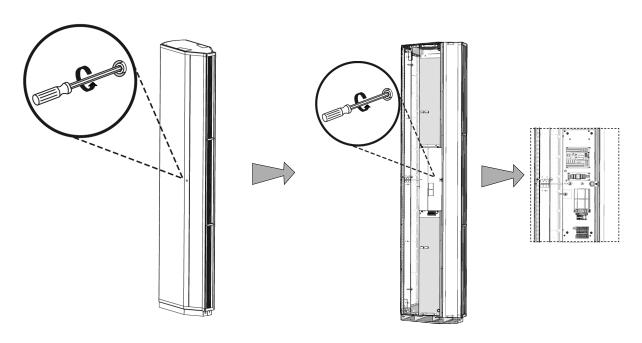
Q

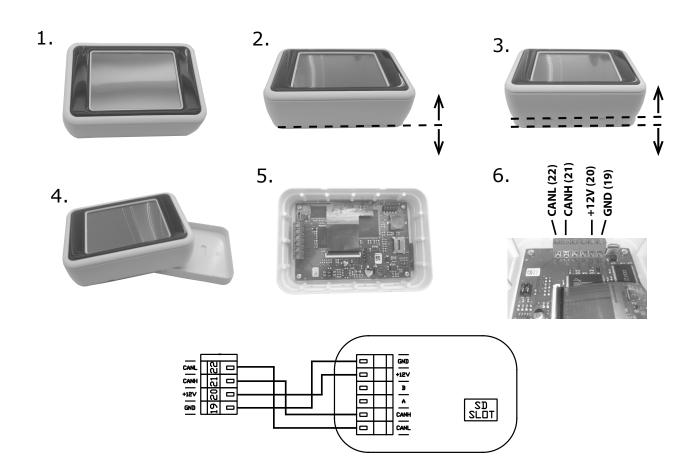
PLEASE NOTE

 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



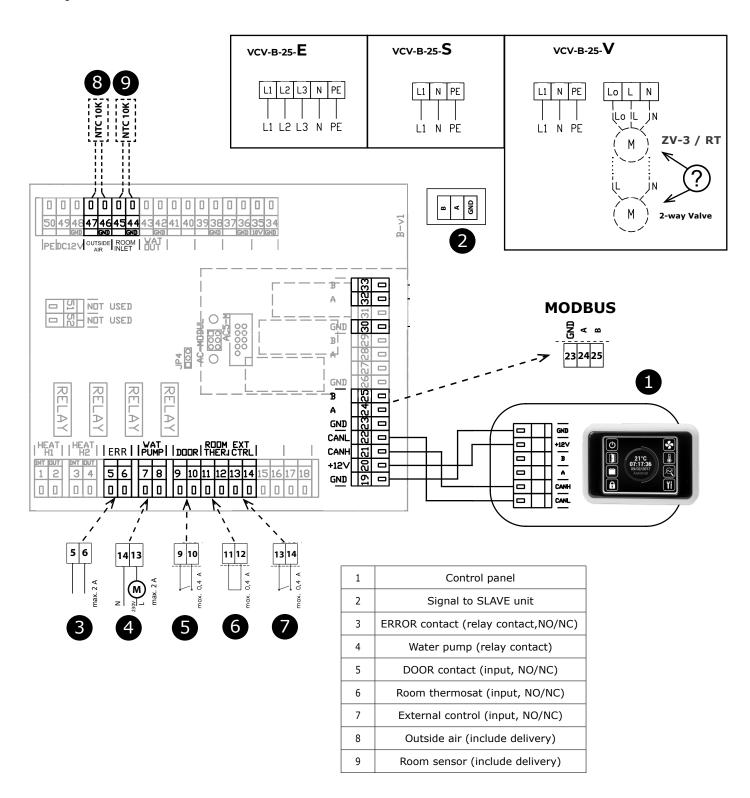


1. INSTALLATION

1.2 EXTERNAL ACCESSORIES

COMFORT MASTER

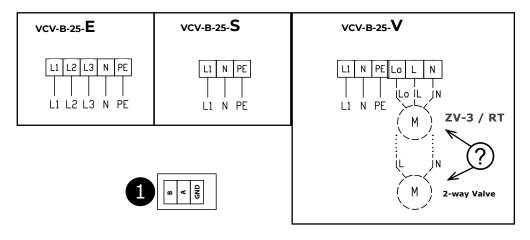
Regulation module Master Comfort

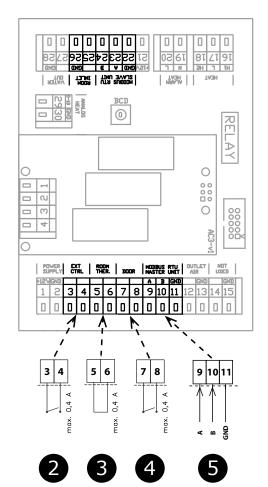


1. INSTALLATION

COMFORT SLAVE

Regulation module Slave Comfort

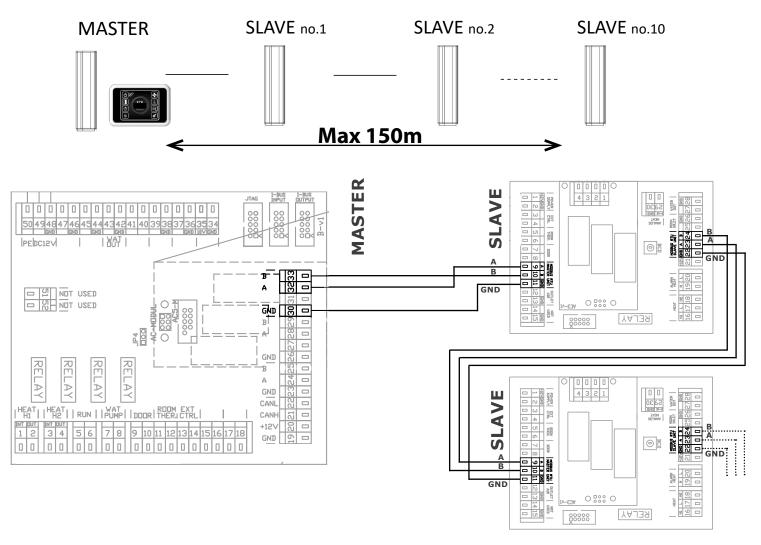




1	Connection for SLAVE unit			
2	External control (input, ON/OFF)			
3	Thermostat (input, NO/NC)			
4	DOOR contact (input, NO/NC)			
5	Control signal from MASTER unit			

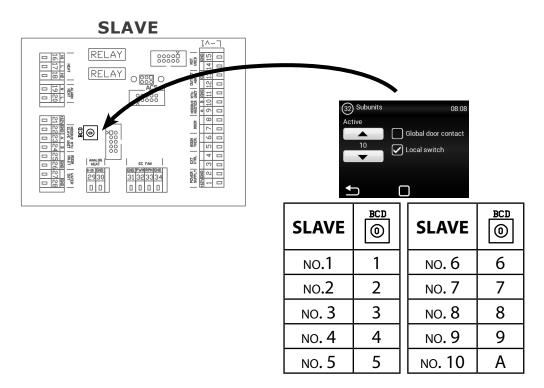
2W

ELECTRICAL SCHEMES CHAINING





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

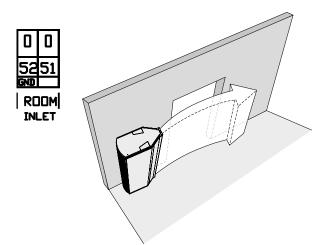




1. INSTAIACE

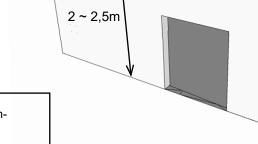
Location of temperature sensors

Room Temperature Sensor - the sensor is included



Outdoor temperature - the sensor is included







The outdoor temperature sensor is recommended to be installed on the north side of the building, protected from direct sunlight or other undesirable thermal radiation.

The temperature sensor is recommended to be installed in a cover box that should contain a small hole for better results.



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.

2.1-1 DS door contact



TECHNICAL INFORMATION

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



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 ZV3 / RT-3-xx



** TECHNICAL INFORMATION



- Zone valve to regulate the water exchanger
- Cable Three-core cable with a cross-section of 1.5 mm², 230 V/ 50 Hz.



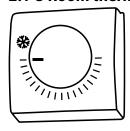
∠!\ CAUTION!

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 0.5 mm², 230 V/ 50 Hz.



Not included with the product.

3. COMMISSIONING



Q 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:

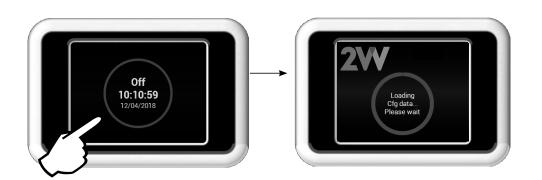
- that the device is well fastened to the support structure,
- that the device is properly closed
- that the power supply is properly connected, including the earthing and the external trigger protection,
- that all the electrical components are securely connected,
- that the installation complies with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

ATTENTION!

- 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

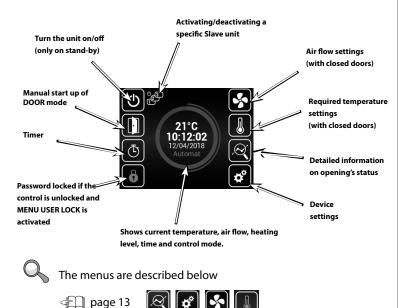
After connecting power supply, the display lights up and the data is loaded. The device is ready to be activated once the service data has fully loaded.





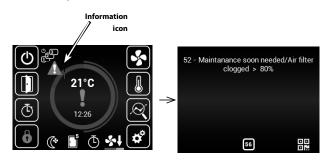
The remote control has a touch screen. The device is controlled tapping the symbols on the screen

Description of main screen



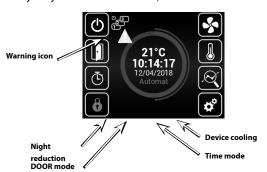
Warning icons

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



Information icons

They only inform about status, not errors.



a page 14

a page 17



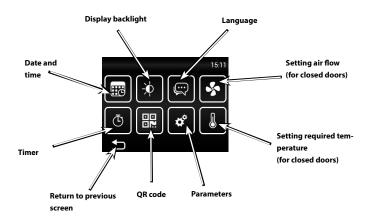
Current status

This screen displays detailed status of the shutter and sensor values:

- · Current set air flow (step or %), informational icons
- Air temperature for intake*, exhaust*, room temperature*, and temperature outside the building* (* in the event that the necessary sensors
 are installed and enabled)
- · Set heater power (if included)

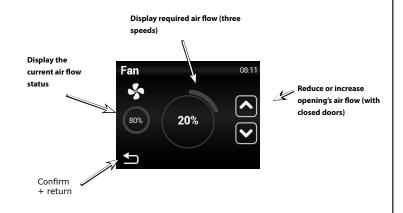


Settings MENU





Air flow settings with closed doors





Required temperature settings with closed doors

If there are SLAVE shutters connected, the information from them is displayed here.





In the event that heating is suspended by summer mode (MENU - SUMMER HEATING), the "Sun" icon is displayed here without the option to select power.



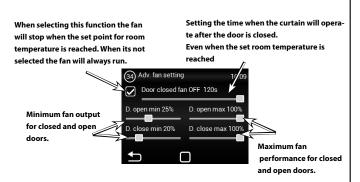


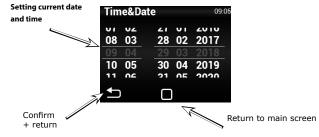
Required temperature settings with closed doors

In menu 34 Adv. Fan settings you can select if you want the fan to contiue when the set point is reached or if you want the fan to stop. (Default)



Date and time settings

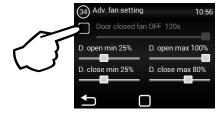




To activate this function, you need to select the room thermostat sensor in menu 09.



If this is not activated, the curtain will turn off immediately after the door is closed, but the desired temperature must be reached.

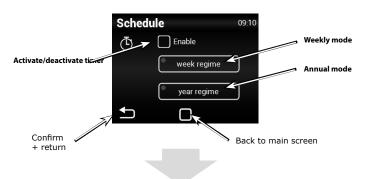




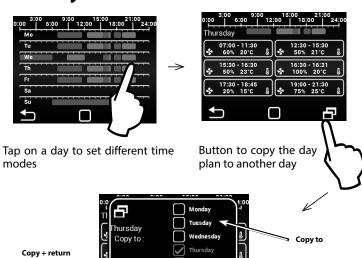
Timei



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



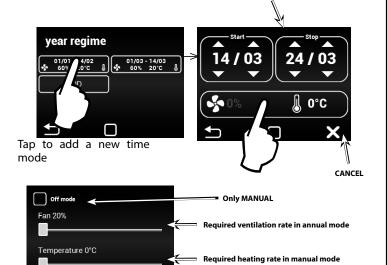
Weekly mode



Friday

START / STOP interval

Annual mode

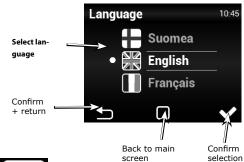




Language

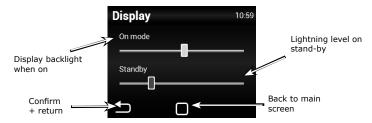


There are 5 languages available





Lightning settings

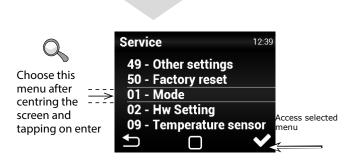




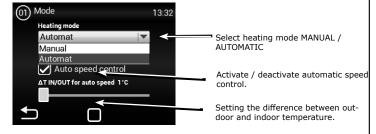
Service menu

Enter code 1616 to access the service menu





MENU - MODE





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

Manual: works according to the set heating / ventilation output

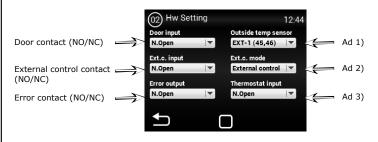
Automat: Heats automatically and trying to reach the desired temperature on the selected sensor (ROOM,BMS) the fan works according to the set performance. if it is not selected (Auto speed control)

Auto speed control: automatically regulates the fan's power on the basis of the difference temperature

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

None - no sensor is connected - inactive

EXT-1 (45,46) - sensor connected (must be on terminals 45 and 46) **BMS** - temperature sensor active and used from the parent system

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

None - inactive

External control – External switching of device

Night reduction - Activation/deactivation of the night attenuation (settings described later in this manual)

Ad 3) - Thermostat (NO/NC)

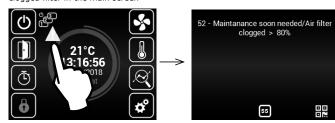
MENU - FILTER TIMER



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

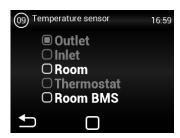


MENU - TEMPERATURE SENSOR

0

Available only in automatic mode

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



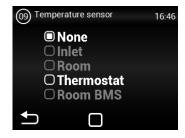
Options:

None

Room - Room temperature sensor

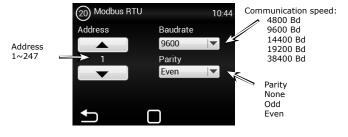
Room BMS – Room temperature sensor from master system

Available only in manual mode.



MENU - MODBUS RTU

Use this menu to set the Modbus RTU communication parameters

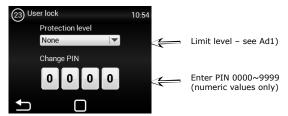


An incorrect setting may prevent communication with the regulator

MENU - USER LOCK



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



Options:

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



MENU - SUMMER HEATING



Use this menu to set heating limits in summer months Winter mode set by default. Enabling the function allows heating also in summer



MENU - Night Reduction



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



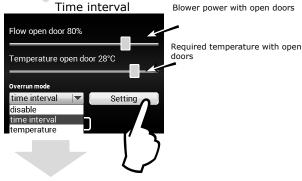
In this menu, the reduction of temperature may be set only by five degrees at the set time compared to the set (required) temperature.



MENU - DOOR CONTACT



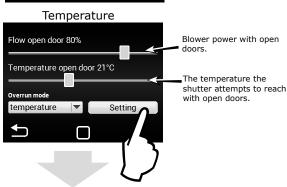






Time of shutter operation per minimum rotation of the motor from closed doors.

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/manual mode.

MENU Selflearning

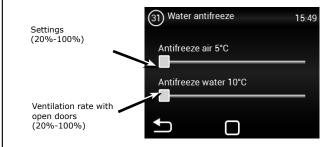


Selflearning- available only in automation and active function mode (Auto speed control), depending on the number of open doors it optimises the period in which the shutter is in operation, even when doors are closed.



MENU - WATER ANTIFREEZE

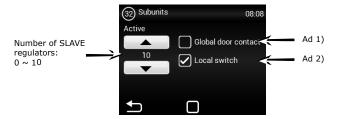
The menu is enabled only in units with water exchanger



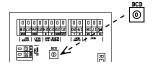
MENU - SUBUNITS

Use this m

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



Slave address parameter:



ADDRESS	ADDRESS SLAVE UNIT		ADDRESS	SLAVE UNIT
1	1		6	6
2	2		7	7
3	3		8	8
4	4		9	9
5	5		Α	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.

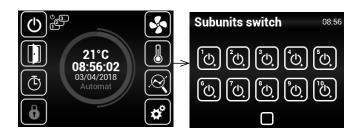
Not allowed = the door contact will not transmit to the SLAVE regulator from the MASTER

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

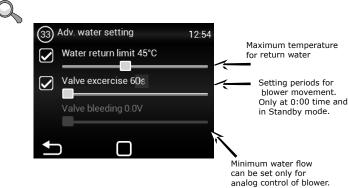
Not allowed = The SLAVE regulators are turned on/off simultaneously

Allowed = The SLAVE regulators can be turned on/off individually



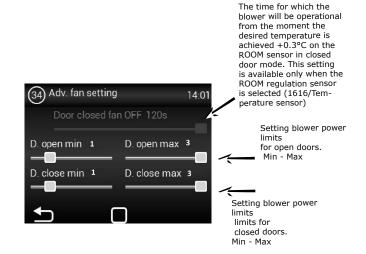
MENU - Adv. WATER SETTING

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.



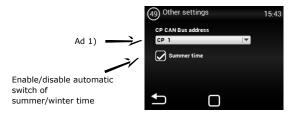


The set limits on blower power restrict the extent of blower control for open and closed doors. This restriction is applied to manual and automatic control of blower power. Exceeding limits in any blower power setting is signalled when the setting element turns red with the text overruns.



MENU - OTHER SETTINGS

Use this menu to set the remaining parameters

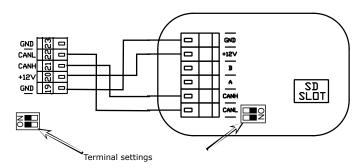


Ad 1) - Sets the CAN address of the control panel so up to 2 control panels may be connected to the MASTER regulator Options: CP 1 = control panel's address is 1 CP 2 = control panel's address is 2

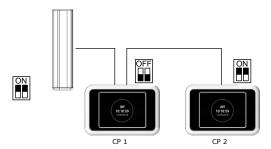
ATTENTION!

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

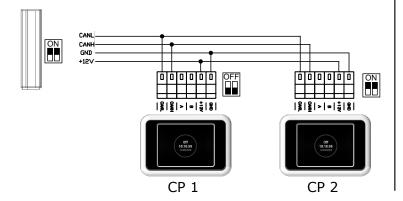
Terminals must be set if multiple panels are to be connected. They are found in the main electronics and the controller:

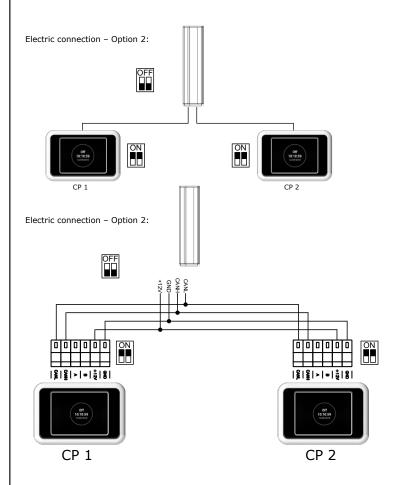


Example of controller connection - Option 1:



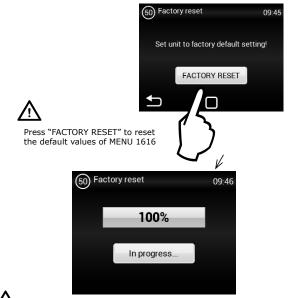
Electric connection - Option 1:





MENU - FACTORY RESET

Use this to reset the default values



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.
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.
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 out of order	Power supply interrupted	Check that the power supply is not interrupted
		Cracked fuse	Check the fuse in side the control module
The heating swit- ches off automa- tically	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.

ATTENTION!

Switch off the main power supply before any intervention inside the unit. Let the unit cool!

6. MAINTENANCE

6.1 CLEANING

ATTENTION!

- 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.

8. CONCLUSION

8. CONCLUSION

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, Czech Republic

Internet:

http://www.2vv.cz/

