CONTENT

IMPORTANT INFO

The unit must be installed by a certified installer in accordance with the installation instructions and the local building codes. Please follow this instruction manual and file it somewhere safe! The unit must always be accessible for maintenance and inspection..

This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.

The warranty is void when:

– The installation, maintenance or operation instructions in this manual are not respected.
– The initial start-up has been carried out before a general cleaning of both the fan and the coil.
– Modifications have been made to the product,before, during or after product installation.
– Maintenance has been carried out by unauthorized people.
– Access to the unit has been restricted due to on-site conditions.

This device is covered by the general warranty conditions of Jaga NV.

For general safety information see: https://jaga.com/ex/provisions/

1. PRODUCT DESCRIPTION

1.1. OPERATION

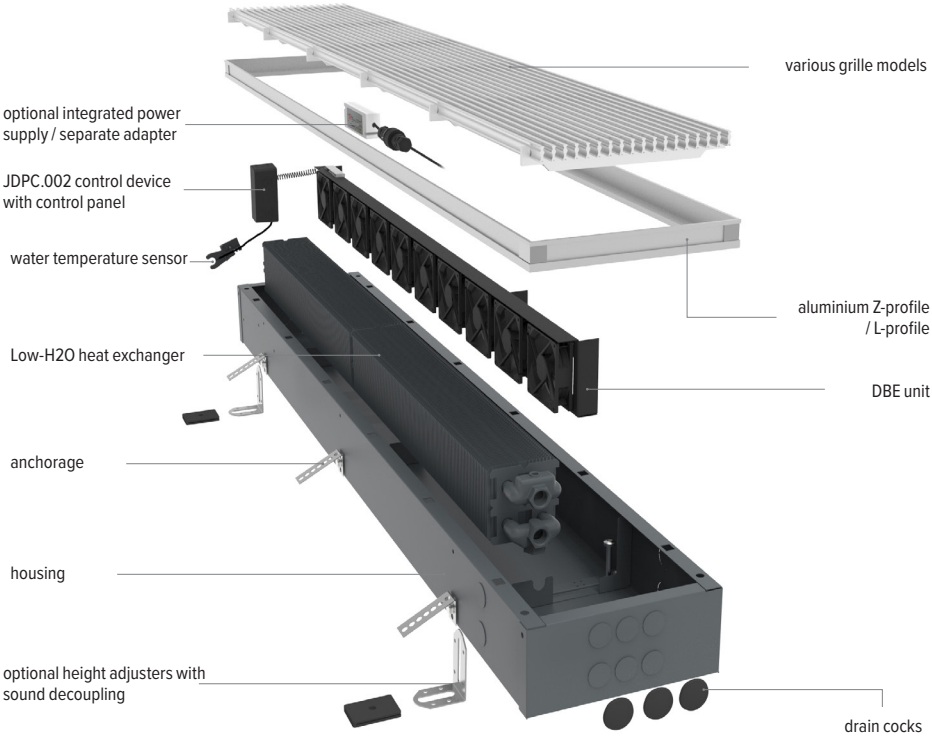
The Mini Canal draws in the ambient air by means of the axial fans. In the heating mode,
the drawn in air is heated inside the heat exchanger and then blown back into the room through forced convection.
In the cooling mode, the drawn in air is cooled inside the heat exchanger until it reaches the dew point of the ambient air(in order to prevent condensation), and then blown back into the room.
It is important to note that the cooling water in the device is never colder than the dew point of the ambient air.
This is to prevent condensation from forming in the heat exchanger.
The Mini Canal Hybrid does not come equipped with a condensate drain.
The occurrence of condensation at too low temperatures will cause damage to the device and its surroundings.
The system's dew point control via the water temperature control is part of an external fitting technique that is not done by Jaga and is therefore not Jaga's responsibility .

Operational limits

– Mains voltage: 12V DC of 230V AC
– max. working pressure: 10 bar
– supply voltage: 12V DC
– Control voltage: Max.10V DC

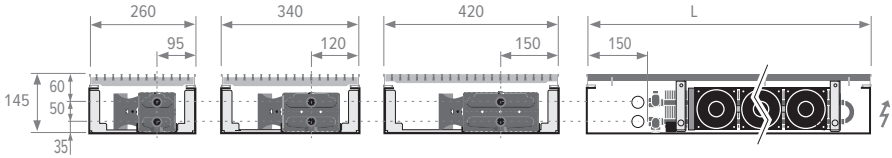
EN

1.2. PARTS



2. TECHNICAL DATA

2.1. DIMENSIONS



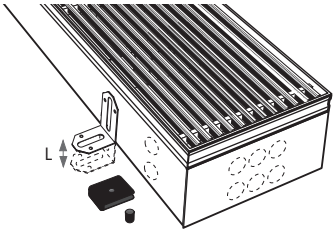
WIDTH	LENGTH										
260	1100	1300	1500	1700	1900	2100	2300	2500	2700	2900	3100
340											
420											

2.2. HEIGHT CONTROL

2.2.1. Default supplied anchoring hooks

Place the device on finished floor height.

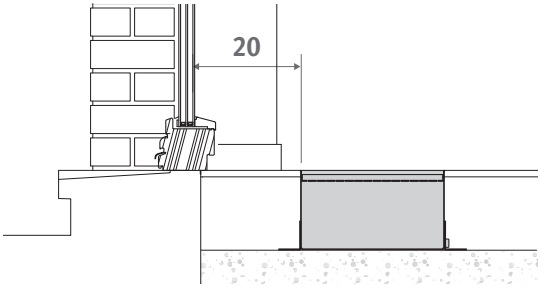
2.2.2. Height control, provided with acoustic decoupling



CODE	ADJUSTABLE
7690.01	0 - 4.5 cm
7690.04	4.5 - 10 cm

2.3. FREE SPACE

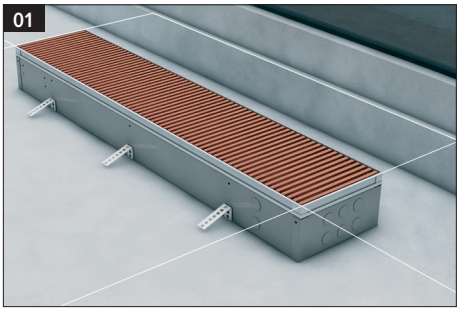
⚠ Curtains to the floor: Place the unit at least 20 cm from the window.



3. INSTALLATION

3.1. INSTALLATION WITH ANCHORING

01

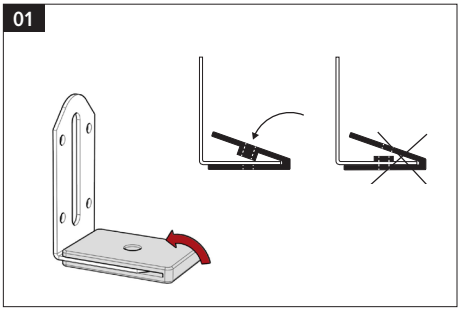


Place the device on finished floor height.
Continue to step 4.

3.2. INSTALLATION WITH HEIGHT ADJUSTMENT

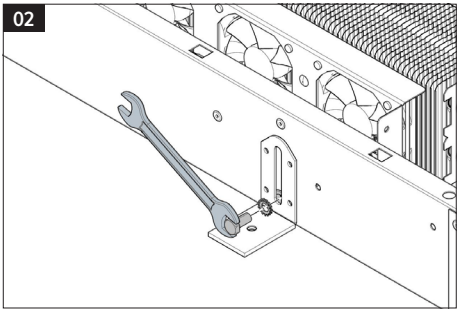
EN

01



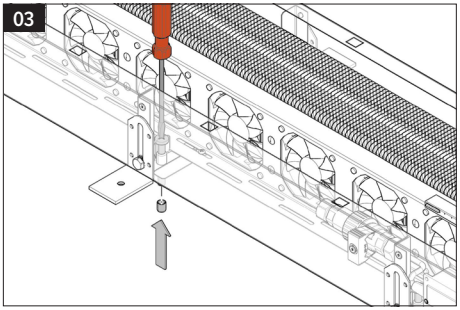
Mount the sound decoupler around each height adjuster.

02



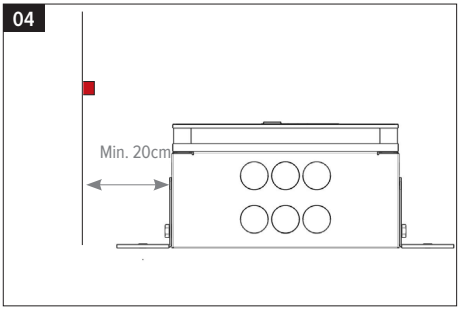
Fix the height adjusters to the casing. Do not completely tighten the bolt..

03



Unscrew the control screws in the bottom of the unit and place the plastic caps on the bottom of the screws to prevent vibrations and noise to the floor..

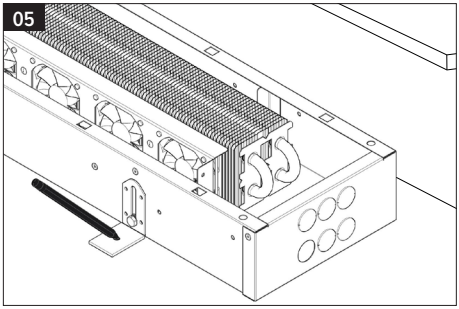
04



Place the device in the correct position..

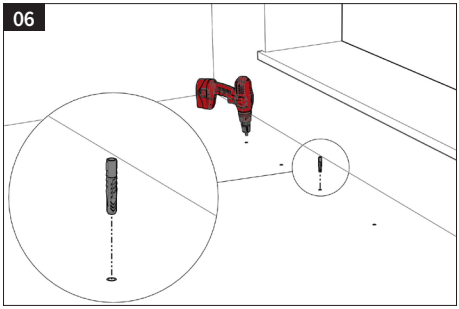
⚠ Curtains to the floor: Place the unit at least 20 cm from the window.

05



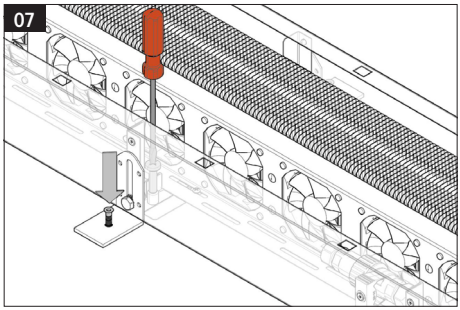
Install the device with the coil facing the wall or window..
Mark the drill holes..

06



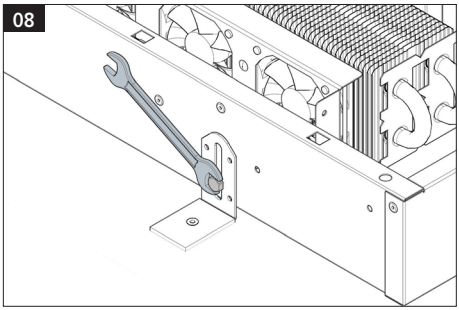
Drill the holes and place the plugs..
Use the correct plug for your floor type..

07



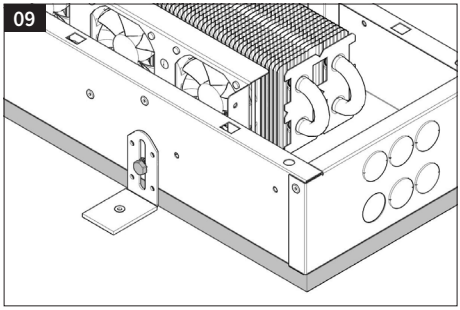
Fix the device to the floor with the height adjusters. Use the control screws to adjust the unit to the desired height..
L-profile: in line with the finished floor
Z-profile: on top of the finished floor

08



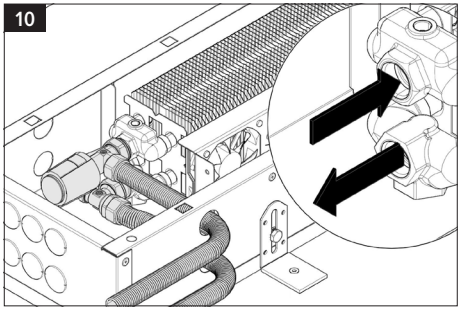
Secure the height..

09



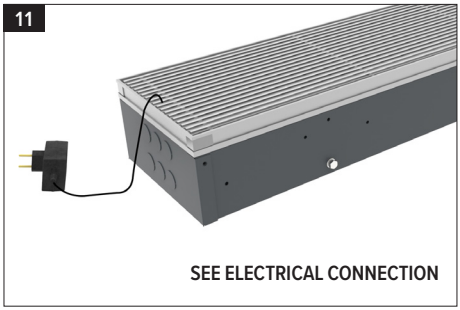
If the device is not mounted directly on the floor, the space under the device must be filled..

10



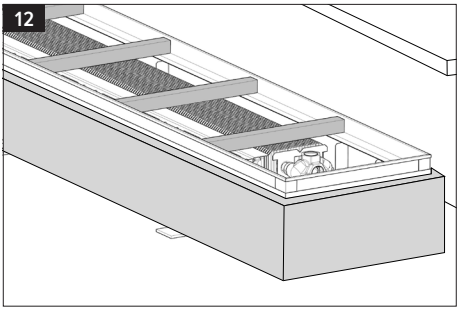
Connect the device to the hydronic system by using the specified inlet/outlet connections. Make sure that the connections are air tight - use a sealant. The coil heat exchanger is equipped with an air vent..

11



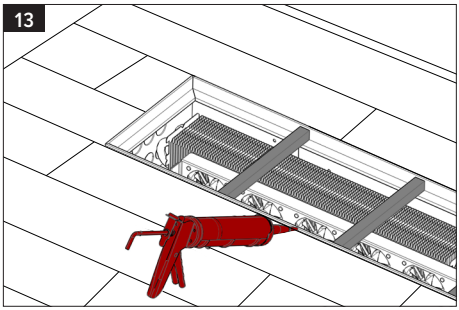
SEE ELECTRICAL CONNECTION

12



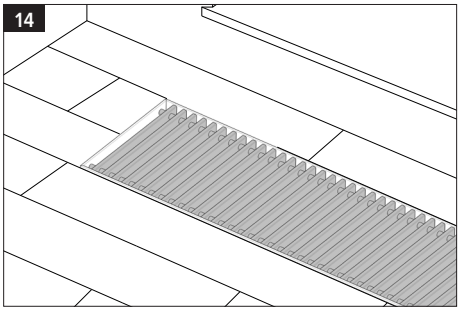
Place the spacers.
If screed is used the device needs to be completely insulated in order to protect the device from voltage differences.

13



Apply the finishing touches.

14



Install the grille.

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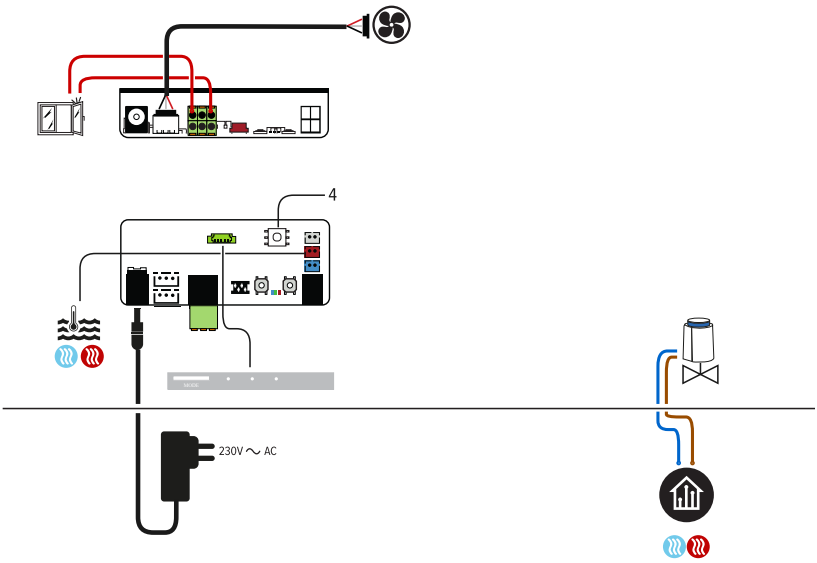
3.3. ELECTRICAL CONNECTION

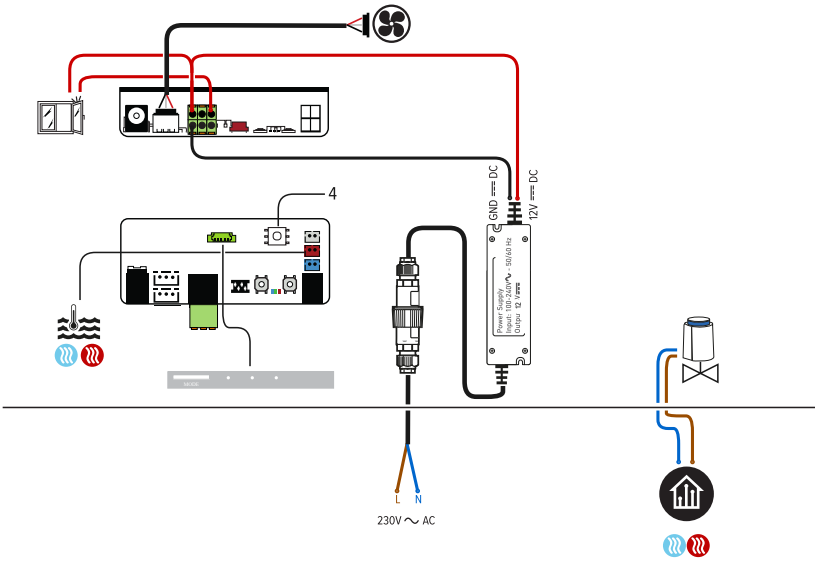
ALWAYS USE THE MAIN SWITCH TO DISCONNECT THE POWER TO THE FAN!

3.3.1. Water temperature sensor only

3.3.1.1. AC adapter

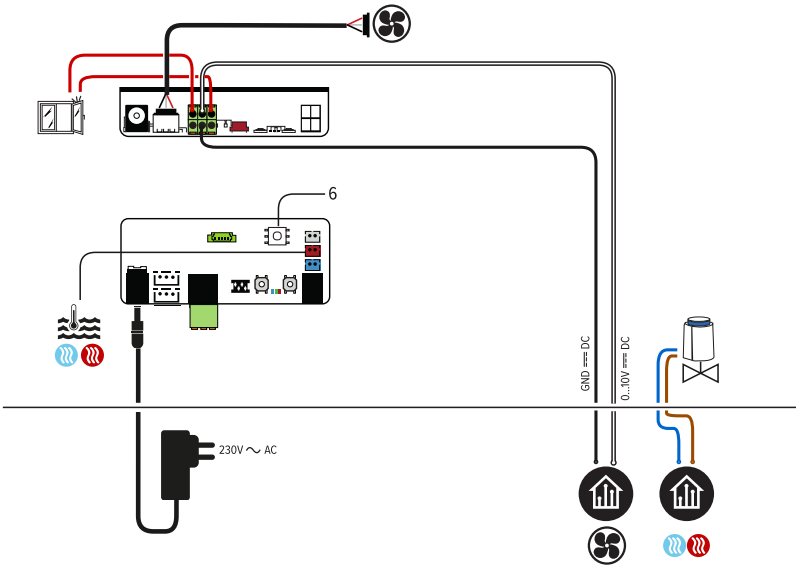


3.3.1.2. Integrated power supply

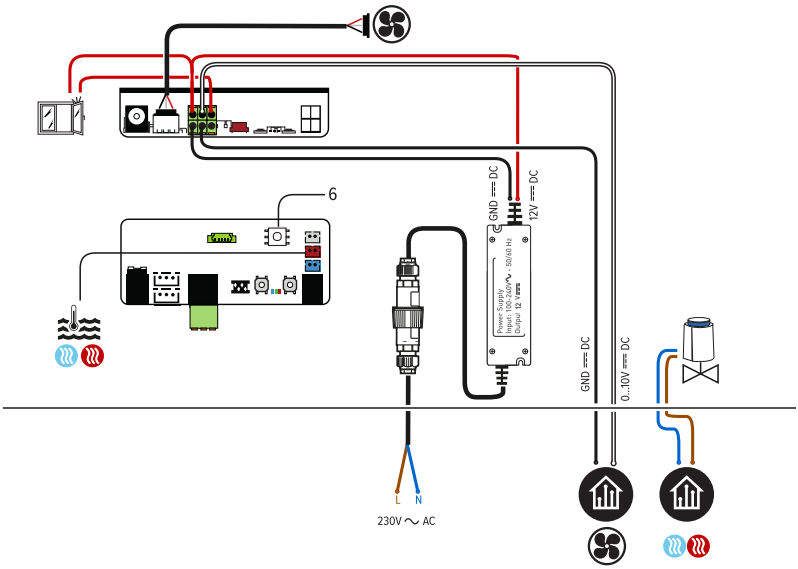


3.3.2. 0..10V Control signalwith water temperature monitoring

3.3.2.1. AC adapter



3.3.2.2. Integrated power supply



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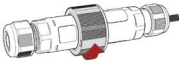
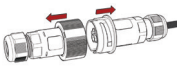
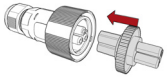
4.1.1.1. Coupling nut installation



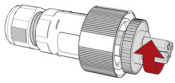
Unlock the connecting part.



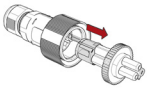
Pull the 2 parts apart.



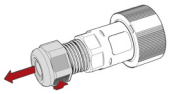
Place the tool on the connection core.



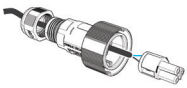
Turn the core.



Remove the core from the housing.

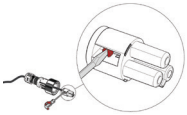


Loosen the cable gland.

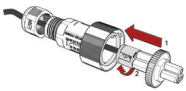


Insert the cable through the cable gland up to the core.

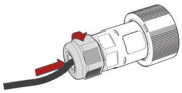
Connect the cables correctly to the core.



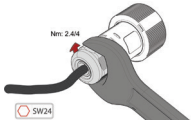
Fix the cables by tightening the screw.



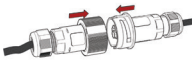
Slide the core into the housing and tighten it.



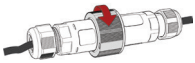
Fix the cable gland.



Tighten the cable gland with 2,4/4 Nm.



Place the 2 sides together.



Tighten the connecting part.

4. OPERATION

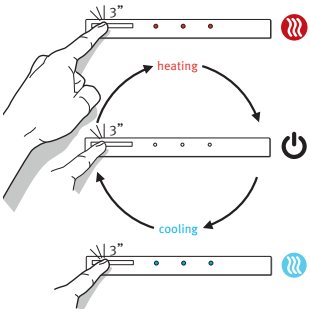
4.1. WATER TEMPERATURE SENSOR ONLY

The user manually selects the desired mode via the control panel.
The unit can run at 3 speeds.The unit starts at the last selected speed(1, 2 or 3) when the preset water temperature is reached.

Tw > 28°C Tw < 18°C

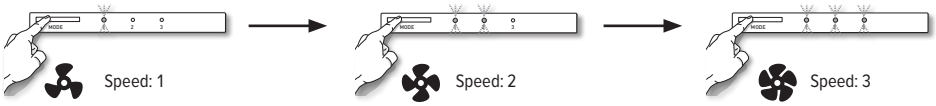
4.1.1. Control

Press and hold to switch modes.
(± 3 sec.)

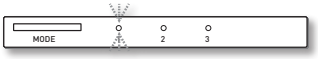


Red LEDs are flashing: the water temperature for heating is too low (Tw < 28°C).
Blue LEDs are flashing: the water temperature for cooling is too high (Tw > 18°C).

Manually changing the fan speed:



4.1.2. Notifications



ERROR: Check the water temperature sensor

4.2. 0..10V CONTROL SIGNALWITH WATER TEMPERATURE MONITORING

When heat or cold is requested, a BMS/home automation system or JAGA thermostat will send a 0-10V signal.
When detecting cold or hot water, the fan will rotate proportionally to the 0-10V signal.

Tw > 28°C Tw < 18°C

Optional:

When heat or cold are requested, a BMS/home automation system will open up the thermoelectric valve.

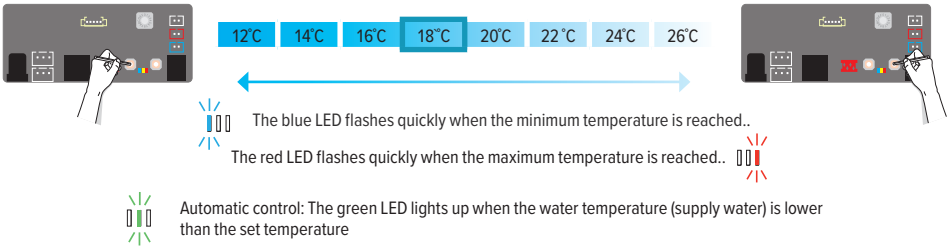
5. SETTINGS VIA CIRCUIT BOARD CONTROLLER

5.1. ADJUSTING THE WATER TEMPERATURE

5.1.1. Adjusting the maximum water temperature for cooling

By reducing the water temperature setting, the unit will start later. If the water temperature is set higher, the unit will start sooner.

1. Start setup mode: press and hold the [-] button until the blue LED flashes 5x and release.
2. Short press the [-] or [+] button to adjust the set temperature.



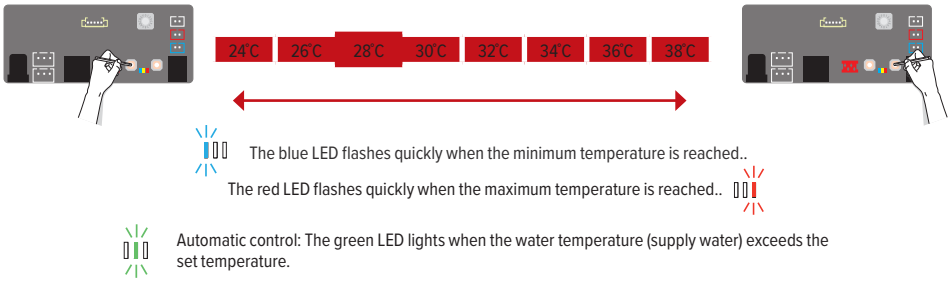
3. Exit setup mode: hold the [-] button until the blue LED flashes 5x and release. Wait 15 seconds – the new setting will be saved automatically.

5.1.2. Adjusting the minimum water temperature for heating

By increasing the water temperature setting, the unit will start later. If the water temperature is set lower, the unit will start sooner.

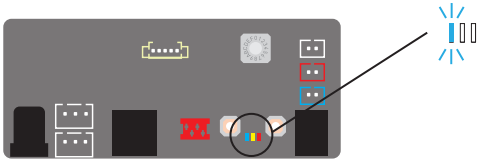
⚠ In combination with a heat pump, it may be necessary to reduce the water temperature.

1. Start setup mode: Press and hold the [+] button until the red LED flashes 5x and release.
2. Short press the [-] or [+] button to adjust the set temperature.



3. Exit setup mode: press and hold the [+] button until the red LED flashes 5x and release.
   Wait 15 seconds – the new setting will be saved automatically.

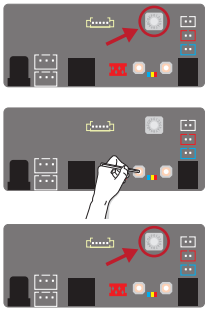
5.2. CIRCUIT BOARD ERROR CODE



Check the water temperature sensor

5.3. SWITCH ON/OFF WINDOW CONTACT

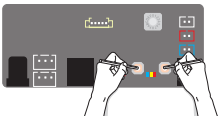
1. Remember the original setting of the rotary switch
2. Turn the rotary switch to setting ‘0’
3. The 3 LEDs (red, green and blue) on the JDPC are blinking
4. Hold the ‘-‘ button down until the blue or the red LED lights up
5. The setting of the window contact changed
   – blue LED: window contact inactive
   – red LED: window contact active
6. Repeat these steps until the desired result is obtained.
7. Turn the rotary switch back to its original setting



EN

5.4. FACTORY RESET

1. Disable power charge.
2. Press and hold down both the [-] and [+] button on the circuit board and switch on the power again. The blue LED will light up, followed by the green LED 2 seconds later and the red LED 4 seconds later. Release the buttons as soon as all 3 LEDs are flashing
3. The controller will return to the Factory Default settings, all LEDs will flash for 8 seconds..



6. WARRANTY CONDITIONS

1. The guarantee is valid only if the equipment is properly and correctly used, by its first owner and if installed in accordance with the norms and instructions as stipulated in the instruction leaflet and the current practices..
2. The guarantee only applies to the equipment and the spare parts. Jaga has the choice between repair and replacement of the equipment or the spare parts. If there has been a change in the model, Jaga is authorised to replace the guaranteed equipment with an equivalent equipment or equivalent spare parts. In those cases where the guarantee claim is received, during the first six months after the start of the guarantee, on all labour and transport costs..
3. The period of guarantee is mentioned in this certificate. A repair or replacement does not change anything to the original period of guarantee..
4. No guarantee is granted on equipment or spare parts lacking information concerning type or series, or on equipment where this informations has been removed or altered, or on equipment that has been repaired or modified by persons not authorized by Jaga..
5. The customer is responsible for the damage when it is due to errors of placement, fittings, electrical connections, faulty or damaged electrical installations or appliances, erroneous voltage or hydronic pressure and all other errors not related to the product delivered by Jaga. The guarantee is also revoked when non-suited parts are applied. The guarantee for our heat exchangers is not valid if they are emptied at set times or during a certain period, or if they are heated by means of industrial water, steam or water saturated by great quantities of oxygen. The quality of the system water has to be in accordance with the VDI 2035-2 directive. The buyer will make every effort to prevent damage to the device by avoiding both dust and moisture. This means that the customer has to cover the device in case of further construction works in order to ensure that the devices remain dust-free. The guarantee is also revoked when the heat exchangers are placed in aggressive surroundings (ammonia, corrosive substances, etc). In these circumstances, the buyer should address the cause of the damage. Lacquered radiators should not be used in the following (humid) areas: above a bath with a built-in shower unit, in a shower cubical or next to it, in a swimming pool (chlorine) or in a sauna.
6. Jaga does not give a guarantee on faulty equipment due to incorrect handling and/or use of the equipment, the dropping of the equipment or the transport without the necessary precautions, or for all equipment that is built in, in a way that it cannot be reached normally. The guarantee is valid only if the equipment is properly and correctly used, by its first owner and if installed in accordance with the norms and instructions as stipulated in the instruction leaflet and the current practices..
7. In all cases where the guarantee is granted but where the intervention occurs later than 6 months after the start of the guarantee, and in all other cases, labour and transportation costs are calculated according to scales set by Jaga. Customers can get information on those scales either from our sales administration personnel, or from the maintenance engineer..
8. All interventions not covered by the guarantee have to be paid in cash to the maintenance engineer..
9. The guarantee starts on the date of the invoice. If the invoice is not available, the serial number or the date of production prevails..
10. Only the courts of judicial district Hasselt (Belgium) are authorised to deal with disputes arising from this guarantee. It will apply Belgian law even when sales involved are subjects of EU member states as well as non-EU member countries..

NOTA

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