

# EPECON

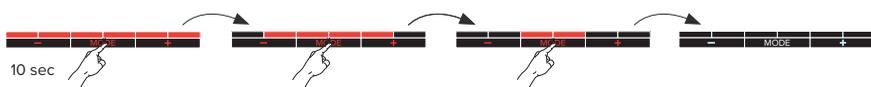
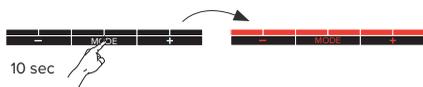
## DBH SET AUTO-CHANGE-OVER

MANUAL

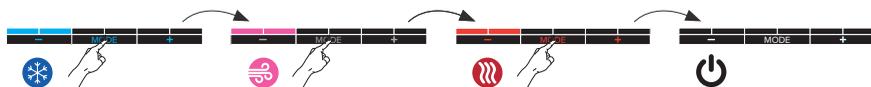


## QUICK GUIDE

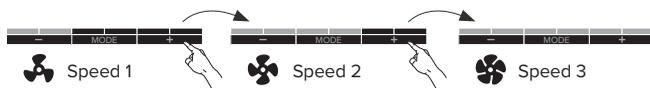
### ON / OFF



### MODE



### SPEED



## CONTENT

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### DECLARATION OF CONFORMITY

CEO JAGA N.V.  
Jan Kriekels



JAGA N.V. - Verbindingslaan 16 - B 3590, declares under its sole responsibility that the product to which this declaration relates: **DBH** is in conformity with the following standards or documents provided that these are used in accordance with our instructions: **NBN EN 60335-1 based on EN60335-1:2012 + A11:2014 + A12:2017 + A13:2017 NBN EN 60335-2-80 based on EN 60335-2-80:2003 + A1:2004 + A2:2009**

Following the provision of Directives as amended:

- **Low Voltage 2014/35/EC**
- **EMC 2014/30/EC**
- **Machinery 2006/42/EC**



Jaga N.V.

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Jaga reserves the right to change product specification at any time in line with our policy of continuous improvement and innovation.

#### 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.

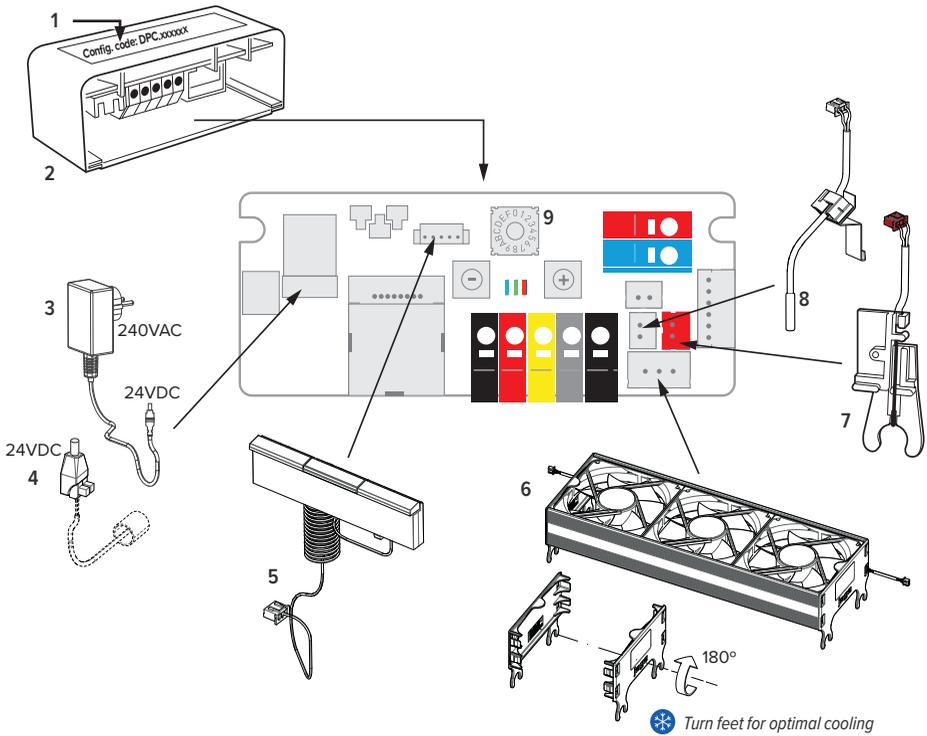
Installation must be carried out by certified technicians. Incorrect installation could cause product failure, a reduced performance or an increased noise level.

#### 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.

# 1. SYSTEM OVERVIEW

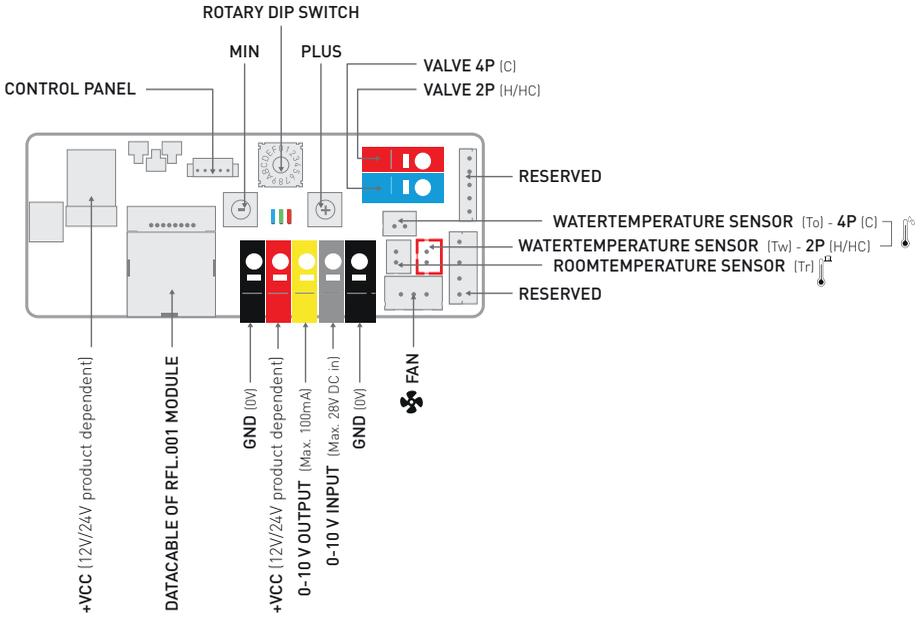


- 1. Configuration code
- 2. Controller
- 3. Power supply 240 VAC (IN) / 24 VDC (OUT)
- 4. Mains voltage 24 VDC
- 5. Control panel with curly cord

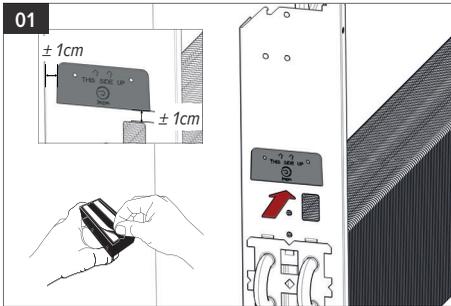
- 6. Activator
- 7. Water temperature sensor (Tw)
- 8. Room temperature sensor (Tk)
- 9. Rotary DIP switch

 Turn feet for optimal cooling

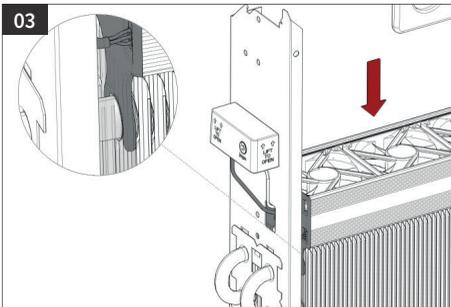
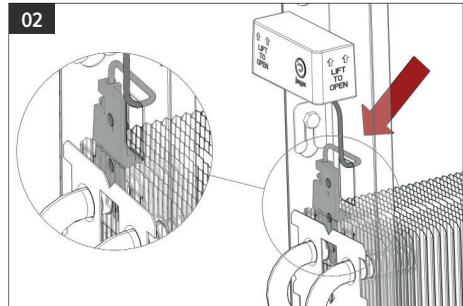
# 1.1. PC BOARD OVERVIEW



## 2. INSTALLATION

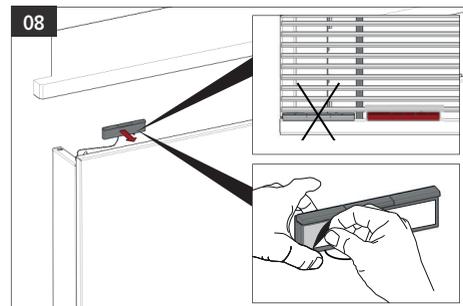
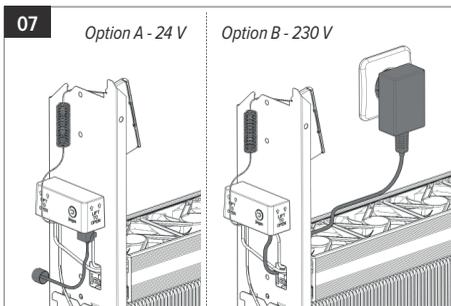
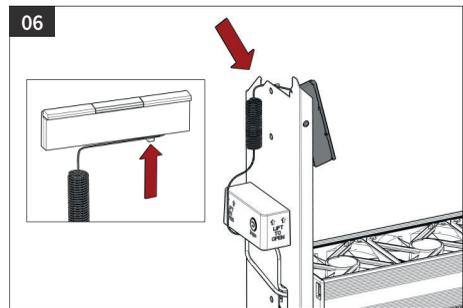
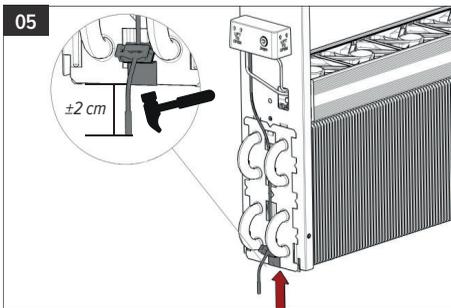


⚠ Clean and degrease before sticking!



**04** Connect the device hydraulically.

⚠ This device is not equipped with dew point control. This must be installed in the most critical place by the installer! Condensing cooling due to a dew point control malfunction may damage the device and its surroundings.!



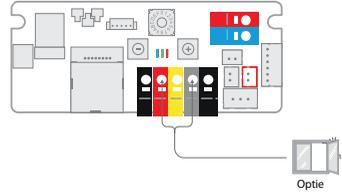
EN

## 2.1. WINDOW CONTACT CONNECTION

Upon opening the window contact the unit and the thermoelectric motor (if connected) will shut down.

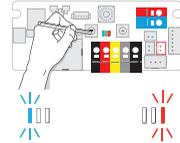
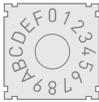
⚠ The window contact is not activated by default and has to be activated /deactivated manually.

⚠ Niet van toepassing in temperatuurmodus!



### Switching on/off the window contact:

1. Note the original position.
2. Turn the rotary DIP switch in the 0 position.
3. Hold the [-] button for 3 seconds.



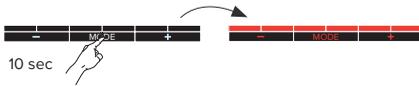
deactivated

activated

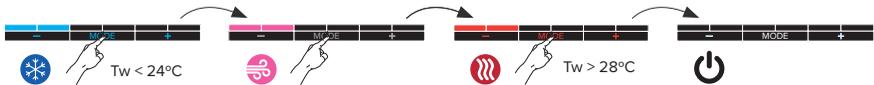
4. Turn the rotary DIP switch back in the original position.

## 3. CONTROL

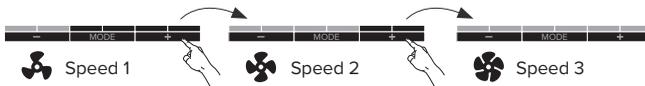
– **Switch on the device:** Hold down [Mode] for 10 seconds until all red LEDs are on.



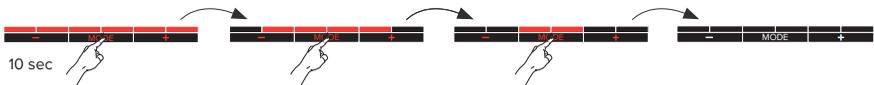
– **Mode:** The device is controlled via auto-change-over. The user can temporarily select another mode manually.



– **Speed:** Activator speed is set according to the unit's length.



– **Permanently off:** All functions are disabled until the user switches on the unit via the control panel. Hold down [Mode] until all red LEDs are off.



### 3.1. NOTIFICATIONS

-  **Blue LEDs** are flashing in the set mode: the water temperature of the supplied water is too high ( $T_w > 24^\circ\text{C}$ ).
- Red LEDs** are flashing in the set mode: the water temperature of the supplied water is too low ( $T_w < 28^\circ\text{C}$ ).

The LEDs are blinking in a pattern and in the color that matches the selected mode

Only if the window contact is connected and switched on: The window contact is open.



#### Control panel error codes

LED flashes rapidly in the color of the set mode.



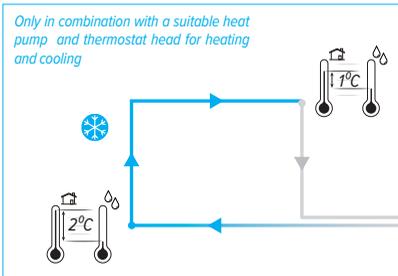
Error sensor [3] - Check the water temperature sensor



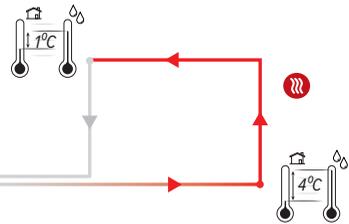
Error sensor [4] - Check the room temperature sensor

### 4. OPERATION AUTO-CHANGE-OVER

EN



Standby mode



 The device automatically enters the cooling mode as soon as the water temperature is  $2^\circ\text{C}$  lower than the room temperature. If the water temperature is less than  $1^\circ\text{C}$  lower than the room temperature, the device will automatically switch to standby. The unit starts at the last selected speed (1, 2 or 3), as soon as the water temperature  $< 24^\circ\text{C}$ .

 The unit is in standby. The unit automatically starts a new cycle as soon as the set temperature has been reached.

 The device automatically enters the heating mode as soon as the water temperature is  $4^\circ\text{C}$  higher than the room temperature. If the water temperature is less than  $1^\circ\text{C}$  higher than the room temperature, the device will automatically switch to standby. The unit starts at the last selected speed (1, 2 or 3), as soon as the water temperature  $> 28^\circ\text{C}$ .

 De breeze mode is switched on and off manually. The auto-change-over is disabled as long as the breeze mode is active. The unit starts at the last selected speed (1, 2 of 3), regardless of the water temperature.

## 5. SETTINGS

### 5.1. ADJUSTING THE WATER TEMPERATURE

The unit starts from the set temperature **24** / **28**.

#### Setting the maximum water temperature for cooling

By setting the temperature lower, the unit will start later. If the water temperature is set higher, the unit will start faster.

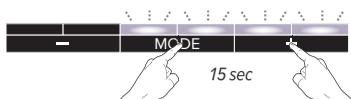
1. Put the device in the cooling mode ❄️
2. Hold down the **[Mode]** and **[+]** simultaneously until the last 4 LEDs start flashing.

#### set minimum water temperature heating

By setting the temperature higher, the unit will start later. If the water temperature is set lower, the unit will start faster.

⚠️ When using a heat pump, it may be necessary to set the water temperature at a lower setting.

1. Put the device in heating mode 🔥
2. Hold down the **[Mode]** and **[+]** simultaneously until the last 4 LEDs start flashing.



3. Briefly press the **[-]** or **[+]** button to adjust the set temperature.

12 °C		24 °C
14 °C		26 °C
16 °C		<b>28 °C</b>
18 °C		30 °C
20 °C		32 °C
22 °C		34 °C
<b>24 °C</b>		36 °C
26 °C		38 °C

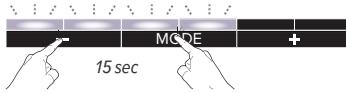
**24** / **28** factory default water temperature

4. After 30 seconds, the new settings are automatically saved and the device returns to the selected mode..

## 5.2. SETTING FANSPEED

### 5.2.1. 3 speeds control

1. Put the device in the mode that you want to adjust: **Cooling** ❄️ / **breeze** 🌀 / **Heating** 🔥
2. Put the device in the speed that you want to adjust: 🌀 - 🌀 - 🌀
3. Hold down **[Mode]** and **[-]** simultaneously until the first 4 LED's are flashing.



4. Short press **[-]** or **[+]** to adjust the set speed.

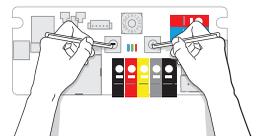
50%		90%	
55%		95%	
60%		100%	
65%		105%	
70%		110%	
75%		115%	
80%		120%	
85%			

Default factory setting of the activator speed is selected depending on the device's length in order to guarantee the sound levels..

5. After 30 seconds, the new settings are automatically saved and the device returns to the selected mode..

## 6. 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 settings, all LEDs will flash for 10 seconds. The controller will return to the Factory Default settings, all LEDs will flash for 8 seconds.



## 7. 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 information 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 in the cases where the damage is due to errors of placement, fittings, electrical connections, faulty or damaged electrical installations or appliances, erroneous voltage or hydraulic pressure and all other errors not related to the product delivered by Jaga. The guarantee is also revoked when unsuited 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 directives. The guarantee is also revoked when the heat exchangers are placed in aggressive atmospheric surroundings (ammonia, caustic substances). Lacquered radiators should not be used in humid spaces. Lacquered radiators should not be used in the following 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.

