jaga CLIMATE DESIGNERS

MICRO CANAL

HANDLEIDING / MANUEL / ANLEITUNG / MANUAL



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DECLARATION OF CONFORMITY

JAGA N.V. - Verbindingslaan 16 - B 3590, declares under its sole responsibility that the product to which this declaration relates: **MICRO CANAL**

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 EN 60335-1:2002 + A11:2004 + A12:2006 + A2:2006 + A13:2008 + A14:2010 + A15:2011

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
 - RoHS 2011/65/EU



Jaga N.V. Verbindingslaan 16 B-3590 Diepenbeek

08/01/2015

Jan Kriekels



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

1. GENERAL INFORMATION

- -Check for any visible damage.
- -The unit must be handled with care in order to avoid damage to the unit's interior and exterior parts.
- -The unit must remain accessible for inspection and maintenance, the trench must be removable at all times.
- -Do not place any objects on the unit.
- ▲ Do not insert objects into the supply and return air openings.

Unit identification:

The serial number is tagged on unit's right side (on the left if the connections are on the unit's right side).

Operational limits:

Installation that does not comply with the specified operational limits relieves Jaga NV from discharge liabilities with regard to damage to objects and persons.

- –Max. water temperature: 90°C
- -Maximum coil pressure: 20 bar.
- -power supply voltage: 24 V = = = DC ±10 %

Use:

- -The unit has been designed to function as a fan coil for both heating and cooling applications; any other use is strictly forbidden. Installing the unit in an explosive environment is prohibited.
- -The area must be dry and dust-free, with a temperature between 5°C and 70°C and a relative humidity < 90%. (norm IEC EN 60335-2-40)
- -The unit is not intended for industrial applications.
- -Start-up and commissioning of the unit must be carried out by skilled staff, qualified to work on this type of product.

Maintenance:

- -Maintenance must be carried out by qualified technicians.
- Always use the main disconnect switch to isolate the unit from the mains before carrying out any maintenance or inspection work.
- -A dirty grille obstructs the air flow, so clean the grille at regular intervals, depending on the room's purpose and how it's used. The grille should never be disassembled for maintenance and can be easily cleaned by using a vacuum cleaner.
- -Do not use solvent- or detergent based products.
- -Every 6 months: Check the condition of the coil and condensate drain.

Disassembly:

When the unit is not used for long periods of time, it must be disconnected from the mains electrical connection.

When the unit is not used for long periods of time, it must be disconnected from the mains electrical connection. If the unit is not used during the winter period, the water in the system may freeze. A suitable quantity of anti-freeze liquid should be mixed with the water. Mixing the water with glycol modifies the unit's performance. Pay attention to the safety instructions on the packaging regarding glycol.

Package:

- Remove the packaging material and put it in the appropriate collection point or recycling facility, incompliance with the local regulations.
- A Do not leave the packaging within reach of children.

Installation

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

- -A The unit might have sharp edges; use gloves during installation/adjustment.
- —all clearances indicated in the manual must be respected in order to guarantee performance, and to allow installation and maintenance. In case valve packages are to be installed, make sure that there is enough room left.
- Sound travels very easily through hard materials. Soft rubber material can be used to reduce contact noise.
- -With cooling: insulate the hydraulic pipes.
- When the condensate drain pipes are being connected, the pipe system must be sufficiently supported in order to prevent strain on the condensate drain tray.

Device installation guidelines:

-Do not insert objects into the supply and return air openings.

Starting:

A Start-up and commissioning of the fancoil must be carried out by skilled staff, qualified to work on this type of product.:

- -The unit is positioned correctly.
- -The supply and return pipes are properly connected and insulated.
- -The pipes are clean and air is removed.
- -The inclination of the unit towards the drain and the p-trap are correct.
- -The wiring connections are correct and properly tightened.
- -The supply voltage is correct.

2. SYMBOLS

A Danger

A Danger: electrical hazard

A Danger: sharp edges / components

Danger: hot surfacesDanger: moving parts

📤 Attention: important warning

Enviromental safeguard

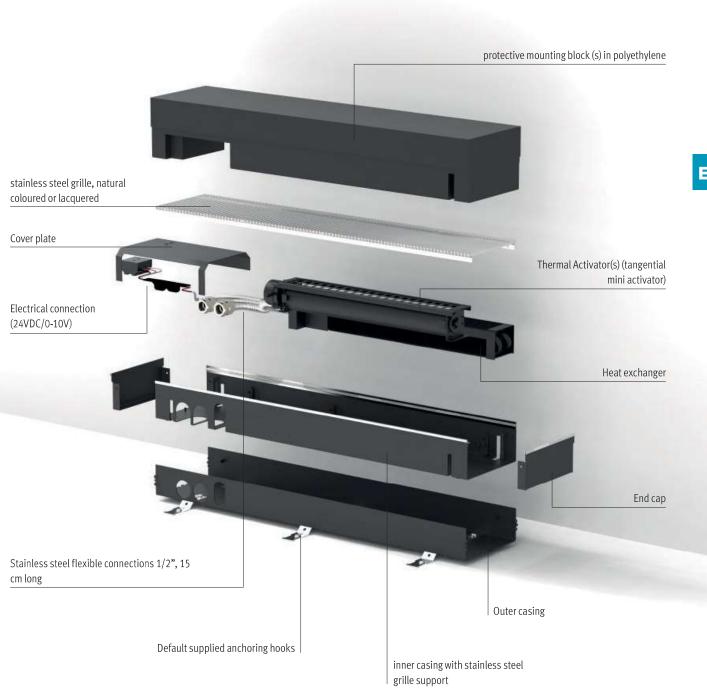
= - - VDC - direct current

 \bigvee VAC - alternating current

3. PRODUCT DESCRIPTION

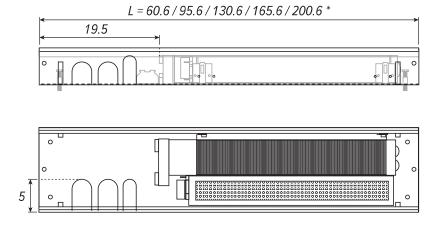
The Micro Canal is only 6 cm high and 13 cm wide. With small but powerful dynamic coils and silent EC-fans. Micro Canal combines minimalist aesthetics and architectural freedom with a power that breaks all heat records. Micro Canal can be harmoniously integrated into any interior. It gives the architect or designer every freedom to realize any architectural project without having to make any compromise because of the heating. By using the latest tangential EC fans, the Micro Canals use up to 50% less energy.

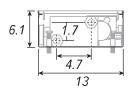
3.1. OVERVIEW



4. TECHNICAL DATA

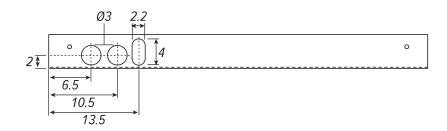
4.1. DIMENSIONS INNER CASING WITH STAINLESS STEEL GRILLE SUPPORT

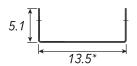




*In case of through-mounting, do not install the intermediate tops. Reduce length by 3 mm for each top.

4.2. DIMENSIONS OUTER CASING





*Installation dimensions: +0.5cm

4.3. RECESS DEPTH / HEIGHT CONTROL

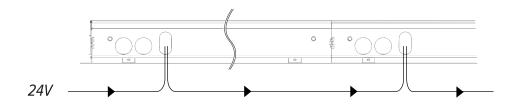


Option: Feet with height adjustment for raised floors



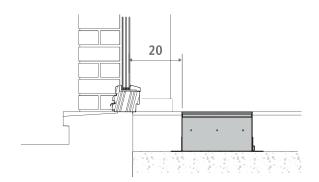
4.4. CABLE LENGTH - 24 VDC ELECTRICAL CONNECTION

Maximal cable length for a voltage drop less than 5%.



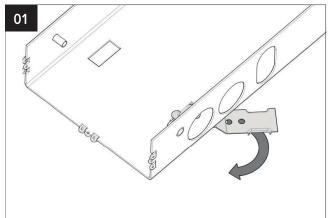
	CABLE LENGTH (M)	10	20	30	40	50	60	70	80	90	100
	Ø 1 mm²	28	14	9	7	5	4	3			
MICRO CANAL L060	Ø 1.5 mm ²	43	21	14	11	8	7	6	5	4	
2000	Ø 2.5 mm ²	70	36	24	18	14	11	10	9	8	7
	Ø 1 mm²	20	10	6	5	4	3		2	2	
MICRO CANAL L095	Ø 1.5 mm ²	31	15	9	7	5	5	4		3	
	Ø 2.5 mm ²	50	25	17	1	0	8	7	6	!	5
	Ø 1 mm²	19	9	6	4	3		2			
MICRO CANAL L130	Ø 1.5 mm ²	29	14	9	7	5	4		3		
2.00	Ø 2.5 mm ²	47	23	16	11	9	7	6	5	5	4
	Ø 1 mm²	10	5	3	2	2			1		
MICRO CANAL L165	Ø 1.5 mm ²	14	7	5	3		:	2			1
2.00	Ø 2.5 mm ²	23	12	8	6	5	4	3	3	:	2
	Ø 1 mm²	9	4	3	2			1	l		
MICRO CANAL L200	Ø 1.5 mm ²	1	6	4	3	2	2 1		1		
	Ø 2.5 mm ²	23	12	8	6	2	ļ	3	3		2

5. INSTALLATION

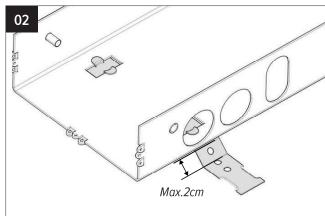


A Curtains to the floor: Place the device at least 20 cm from the window.

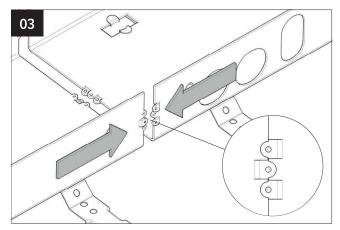
▲ Install the device with the coil facing the wall or window.!

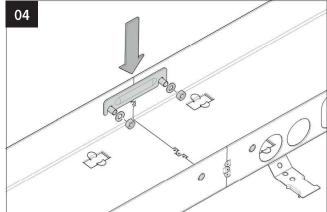


Place the height adjusters under the unit's outer casing.

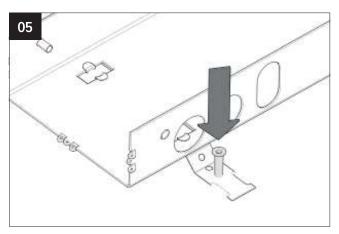


Bend the height adjusters (max.2cm).



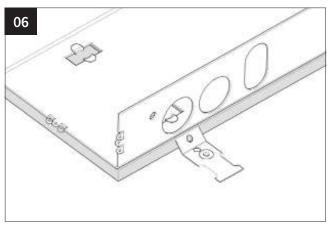


only for continuity: Make sure that the units are positioned correctly and that the casings fit tightly. Use the supplied connecting pieces to connect the different units.

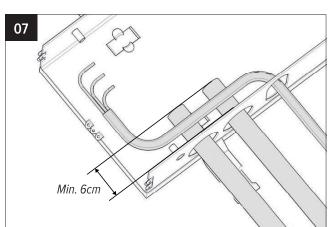


Mark the drill holes. Drill the holes and place the plugs. Fix the device to the floor with the height adjusters.

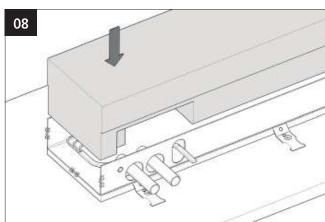
Use the correct plug for your floor type.!



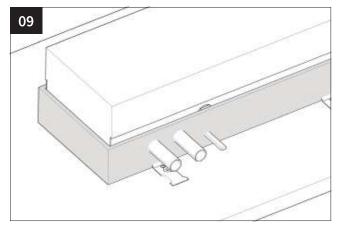
If the device is not mounted directly on the floor, the space under the device must be filled.



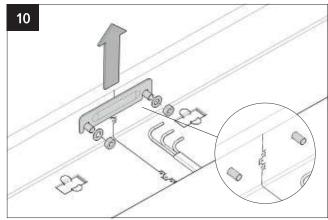
Place the supply and return pipes and the electricity cable. These must stick out a minimum of 6 cm in the casing.



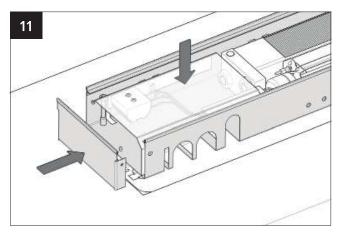
Place the protective block.



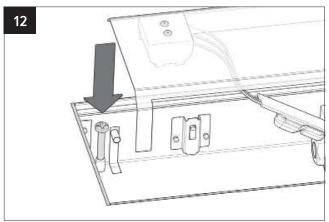
If screed is used the device needs to be completely insulated in order to protect the device from voltage differences.



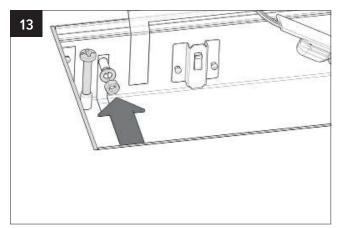
Remove the protective block and the connecting pieces.



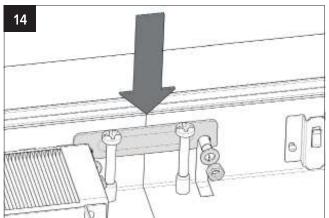
Fit the final finish and place the inner casing in the outer casing.



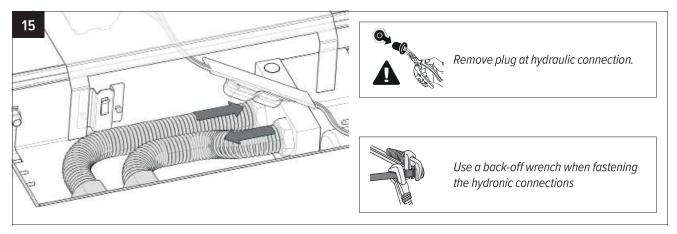
Use the control screws to adjust the unit to the desired height. Place the device on finished floor height.



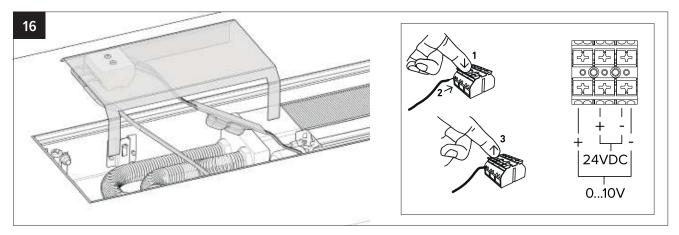
Anchoring of the inner housing after fine adjustment.



only for continuity: use the supplied connecting pieces to connect the different units.

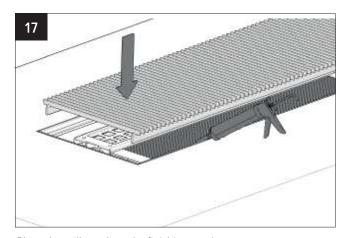


Connect the flexibles to the coil's supply and return connections.



Connect the device electrically.

Always use the main switch to isolate the power supply!



Place the grille and put the finishing touches.

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 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 nonsuited parts are applied. The guarantee for our heat exchangers 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 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 atmospherical 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.

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NOTE			