

versatile



## CLIMA CANAL 13 B27



versatile



# CLIMA CANAL 13 B27

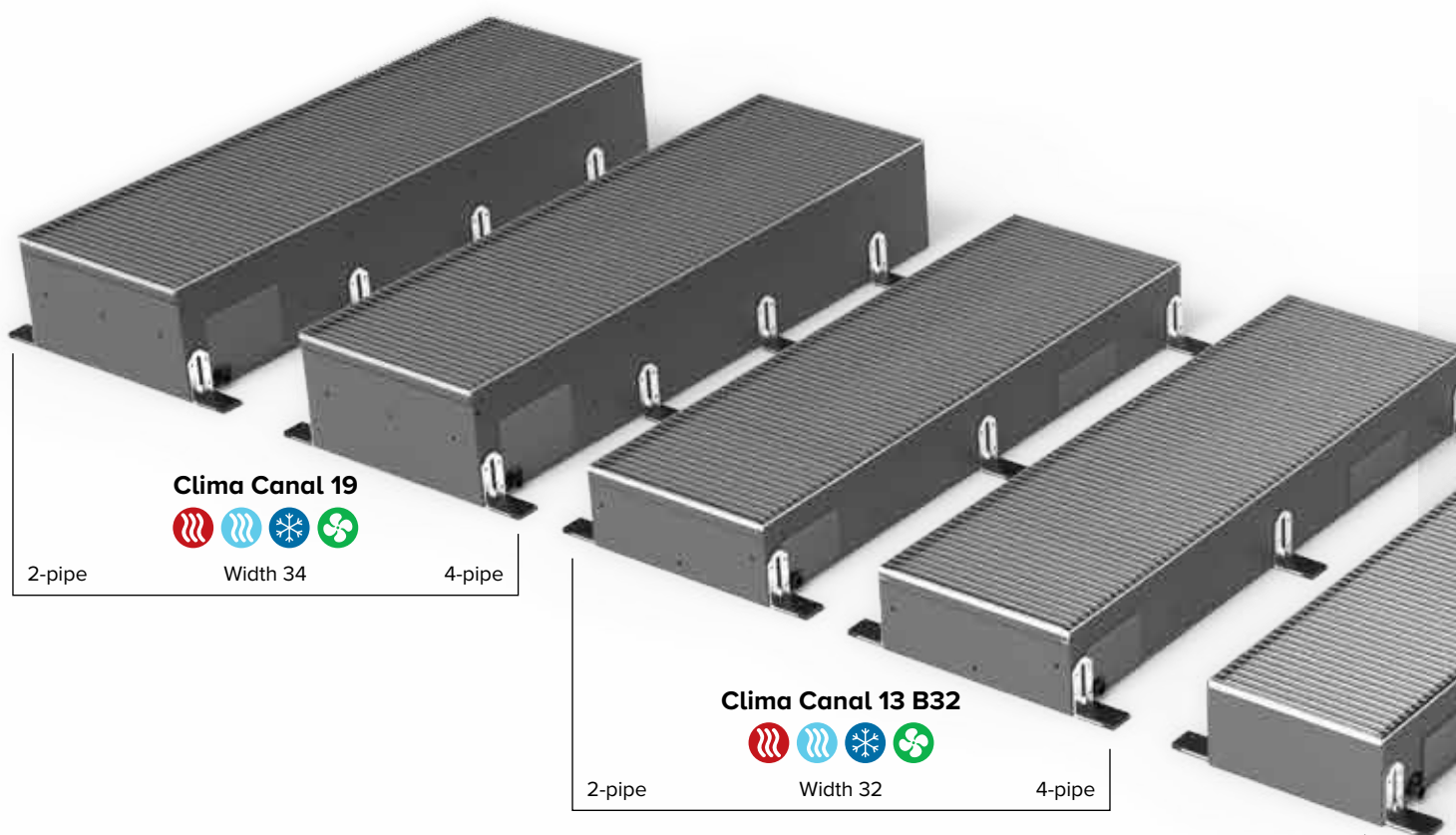
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# COMPLETE CLIMATE CONTROL, POWERFUL AND DISCREET

The floor convector heaters offer the ideal climate solution, they provide comfortable heating and cooling at a very low noise level without hindering your outside view. An additional advantage is the optimal distribution of hot (or cool) air throughout the area.

Jaga Clima Canals provide answer to cold trap in large glass areas. The downward cold airflow at glass walls often creates an uncomfortable comfort feeling. Clima Canals create a warm air curtain. The cold air layer of the window is drawn against the floor, warmed and mixed with the warmer upper air, achieving a balanced and even comfort temperature. This is done extremely efficiently due to the placement of the heat exchanger on the window side of the well. Jaga Clima Canals provide answer to cold traps at large glazed areas. The downward cold air flow at glass walls often creates an uncomfortable comfort feeling. Clima Canals create a warm air curtain. In heating mode, the cold air layer of the window is drawn against the floor, warmed and mixed with the warmer upper air. In cooling mode, the warmer upper air is pressed against the floor inside the room and re-circulated across the floor to the window section, and cooled by the heat exchanger, achieving a balanced and even comfort temperature throughout the room. This is done extremely efficiently due to the placement of the heat exchanger on the window side of the well.

Clima Canal is more than just heating. The units can be equipped with a ventilation connection to provide a completely invisible, comfortable and preheated fresh air supply. Combined with a heat pump, the Clima Canal is also a powerful cooler.



## SOPHISTICATED DESIGN

Clima Canals offer powerful climate technology from minimal installation depths. After finishing, only the grille remains visible, which can be adapted to the interior flawlessly thanks to the wide variety of colour options and materials available. With all the internal components coated dark grey, the entire interior is designed to be invisible.

For safety and performance purposes, floor convectors must not be covered by furniture or window coverings. Therefore, the space between the unit and the window should be considered when fitting curtains and blinds to ensure they do not touch the unit. For optimal comfort, the floor duct is preferably the same length as the window.

## QUALITY WITHOUT CONCESSIONS

The use of high-quality materials, such as copper and aluminium for the heat exchanger and electro-galvanised steel for the duct, provides a perfect rustproof end product, with all its components carefully coated with a UV-resistant polyester paint of the highest quality. The specially selected EC motor operates in a sealed dust-free environment with a balanced and vibration-free movement.

## Clima Canal 13 B27

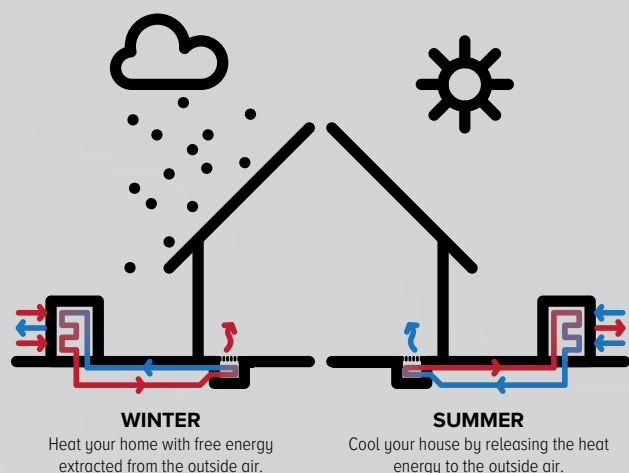


## HEATING AND COOLING WITH HEAT PUMP

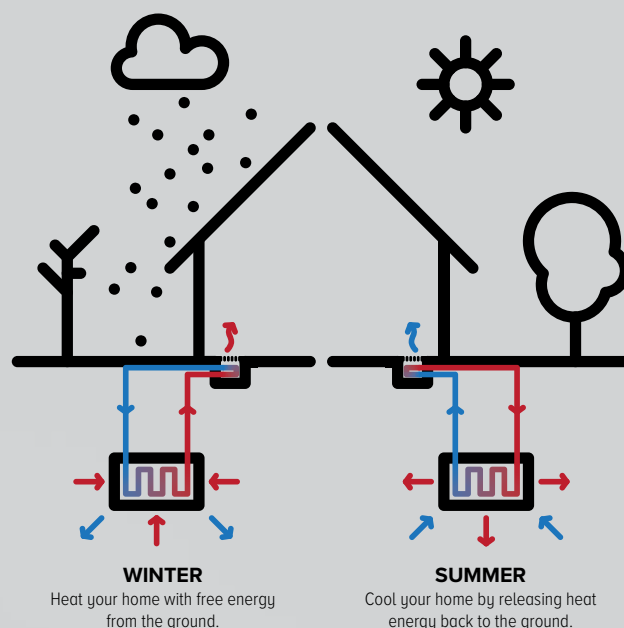
With its low water content and high thermal conductivity coefficient for low supply temperatures, the Clima Canal is the ideal match for your heat pump and it allows the units to react extremely efficiently to your heating or cooling demands, even at low supply temperatures.

Depending on your cooling needs, you can opt for Light or Deep Cooling. Clima Canal 08 is ideal for Light Cooling (non-condensing cooling). Clima Canal 10, 13 and 19 are supplied with a condensation drain and are therefore suitable for Deep Cooling (condensing cooling).

### WITH AIR-TO-WATER HEAT PUMP



### WITH GEOTHERMAL HEAT PUMP



#### Clima Canal 10 Plug & Play



Width 18  
2-pipe

#### Clima Canal 10



Width 18  
2-pipe

#### Clima Canal 08



Width 18  
2-pipe

- Condensing cooling
- Non-condensing cooling
- Ventilation (option)
- Heating

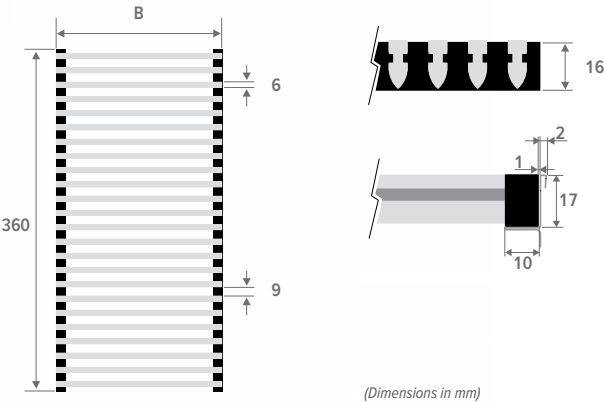


ALUMINIUM GRILLES

Aluminium panel grille with aerodynamically shaped transverse profiles in black vibration-free EPDM, grille supports EPDM rubber hardness 85.

PROPERTIES

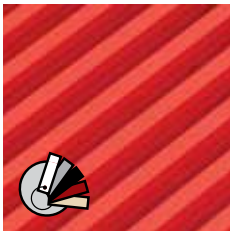
- provided as standard to enable continuous installation
- sound-insulating EPDM rubber supports
- developed for easy maintenance of the units / the aluminium profiles are low maintenance
- eco-friendly, scratch-resistant powder coating with high UV-resistance



ALUMINIUM NATURAL COLOUR ANODISED GRILLES



**BNA** Alu. natural



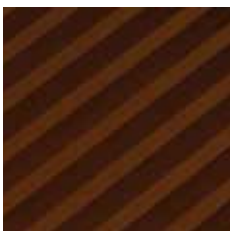
**BNC/XXX** Alu. coated

 Our grilles are available in all colours, with the exception of Sand blast grey 001. In case of intensive use (installation in circulation areas, for example in front of sliding windows and doors), wear is evidently inevitable.

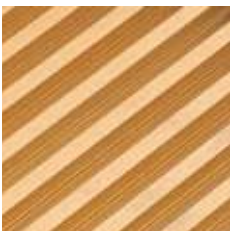
COLOURED ANODISED ALUMINIUM GRILLES



**BAN/AN1** Black



**BAN/AN2** Dark brown



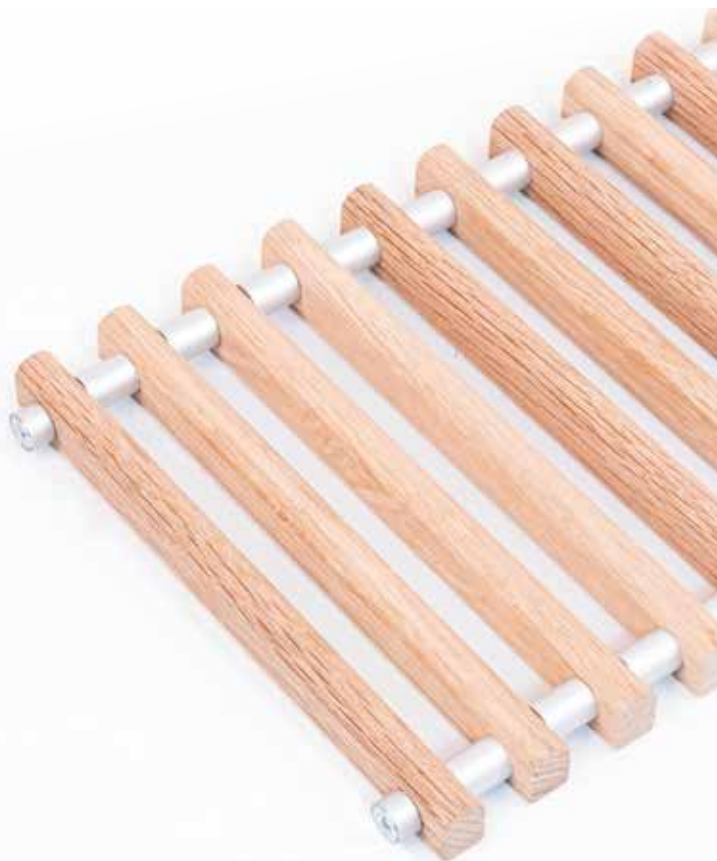
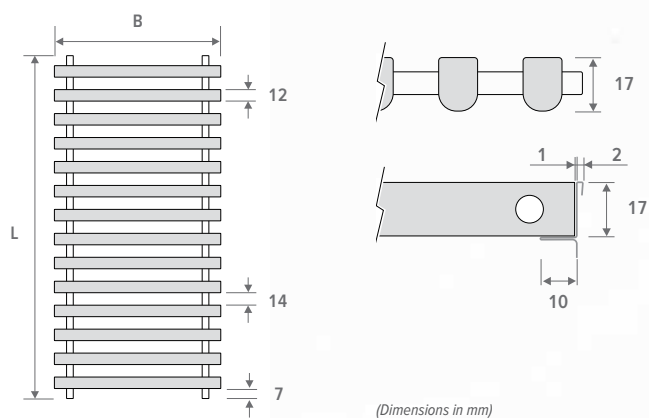
**BAN/AN3** Brass-coloured

## WOODEN ROLL-UP GRILLES

Wooden grille with aerodynamically shaped transverse profiles, connected with a galvanised spring. Aluminium inserts are used to ensure the correct clearance.

### PROPERTIES

- provided as standard to enable continuous installation
- natural colour (untreated), allowing the customer to finish the grille to match the floor



## NATURAL WOODEN GRILLES



**BON** Oak natural    **BBN** Beech natural

## VARNISHED WOODEN GRILLES



**BOV** Oak varnished    **BBV** Beech varnished

versatile

CLIMATE  
DESIGNERS

# CLIMA CANAL 13 B27





**HEIGHT-ADJUSTABLE BASE** 0 > 4.5 cm, provided with acoustic decoupling

**PROTECTION PANEL** panel for mounting and site protection

**GRILLE** aluminium and wooden grilles in a variety of colours and materials



alu. natural  
grille

coated alu  
grille

coloured  
anodised alu  
grille

natural wooden  
grille

varnished  
wooden grille

**STAINLESS STEEL** flexible connections 1/2", 15 cm long  
stainless steel flexible hoses allow the internal  
mechanism to be removed completely for easy cleaning

**VALVES COVER PLATE**

**ELECTRICAL CONNECTION ON THE  
INSIDE**

**HEIGHT ADJUSTMENT  
SCREW**

**FINE ADJUSTMENT**  
to max. +0.8 cm, for a perfect  
alignment with the finished floor

**HYDRONIC & ELECTRICAL CONNECTION**  
always left-hand side

**DYNAMIC HEAT EXCHANGER 4-PIPE**

**EC FANS**

**CONDENSATE TRAY**, for drainage (ø 2 cm) of condensate water

**DUCT WITH STAINLESS STEEL GRILLE SUPPORT**, coated housing in sendzimir galvanised steel plate

**OPTIONAL  
NOZZLE(S)**  
for ventilation duct

## ORDER CODE CLIMA CANAL 13 B27

QUAF 013 080 27 XXX F A D06 VV

*Option: air outlet vent**Control:*

- Jaga BMS 0-10V control: D04
- Jaga 3 settings controller: D06
- Jaga On/off: D08

*Height adjustment:*

- Adjustable 0 - 4,5 cm: A
- Adjustable 4,5 - 10 cm: B

*Stainless steel flexible connections**Grille**Width**Length**Height*

## HEIGHT

13 cm

## LENGTH

080 cm / 110 cm / 160 cm / 180 cm

## WIDTH

27 cm

## GRILLES



BNA



BON



BBN



BNC/XXX



BOV



BBV



BAN/AN1



BAN/AN2



BAN/AN3

## GRILLE: COLOUR

Our grilles and frames are available in all colours, with the exception of Sandblast grey 001. In case of intensive use (placement in circulation areas, for example in front of sliding windows and doors), wear is, of course, inevitable.

## STAINLESS STEEL FLEXIBLE CONNECTIONS



## HEIGHT ADJUSTMENT



- A Adjustable 0 - 4,5 cm
- B Adjustable 4,5 - 10 cm

## CONTROL SYSTEMS

## JDPC (Jaga Dynamic Product Controller)



Control panel

## OPTIE

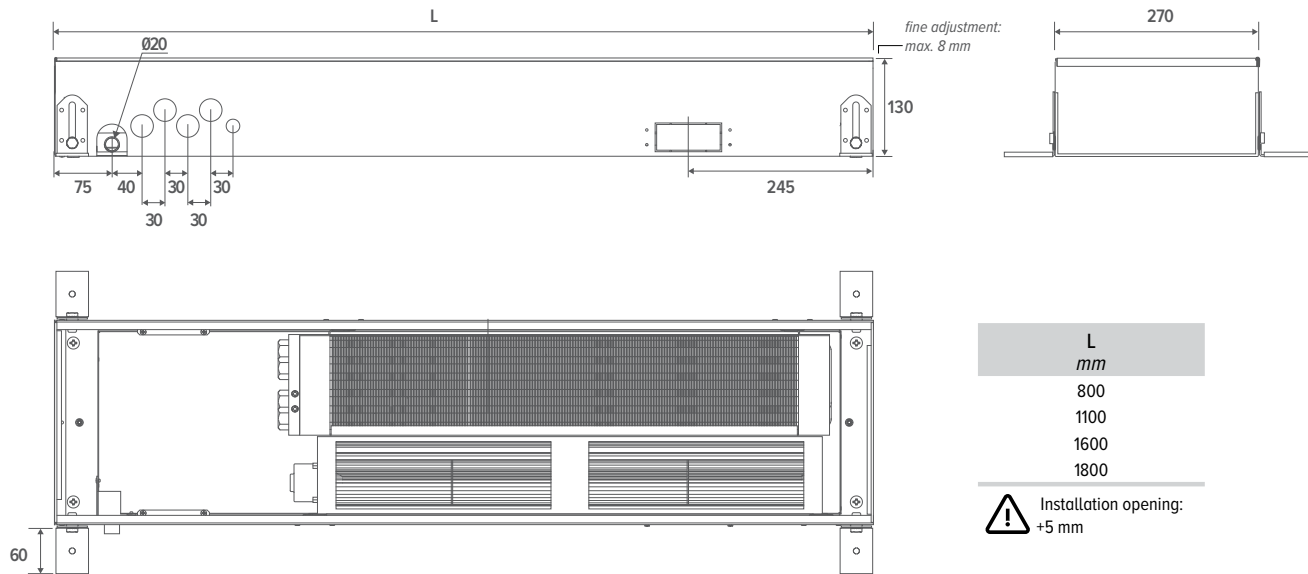
## AIR OUTLET VENT



## STANDARD DELIVERY:

- casing in Sendzimir-galvanised steel sheet (RAL7024) with height adjustment and stainless steel grille support
- grille(s): anodised aluminium or wood
- dynamic heat exchanger
- thermal activator(s), (tangential mini activator) 24 VDC
- stainless steel flexible connections 1/2", 15 cm long
- provided as standard to enable continuous installation
- height-adjustable base 0 < 4.5 cm
- fine adjustment 0 > 0.8 cm
- cover plate

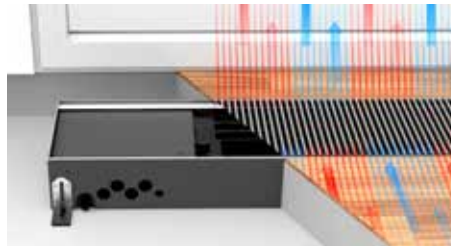
## DIMENSIONS (in mm)



## INSTALLATION

- For the distance between the duct and the window, any wall-mounted cornices must be taken into account. Curtains can never be suspended over the duct. The heating element needs to be accessible for maintenance at all times.
- Curtains to the floor: Place the unit at least 20 cm from the window.
- If the unit is not mounted directly onto the even floor, the space between the underside of the unit and the floor needs to be filled with a stable type of filling, such as in-situ concrete.
- Always install with the heat exchangers facing the window or the wall
- Connections always on the left

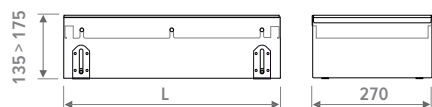
## Operating principle



## Through-mounting

All Clima Canal are prepared for continuous installation. Visually from the outside, there is only one nice lined-up Clima Canal, but under the floor each Clima Canal has its own connection.

## EMPTY HOUSING



- to fill open spaces for a continuous installation
- aluminium or wooden grille
- duct with stainless steel grille support
- height adjustment 13.5 > 17.5 cm
- height control with fine adjustment to align with the finished floor
- protection panel

| CODE                | L<br>cm |
|---------------------|---------|
| QUAD 013 080 27 XXX | 080     |
| QUAD 013 110 27 XXX | 110     |
| QUAD 013 160 27 XXX | 160     |
| QUAD 013 180 27 XXX | 180     |

fill in grille code

## CORNER PIECE



- aluminium grille natural or coated
- duct with stainless steel grille support
- height adjustment: 13 > 17 cm
- height control with fine adjustment to align with the finished floor

| CODE                    |              |
|-------------------------|--------------|
| QUAD 013 033 27 BNA     | Alu. natural |
| QUAD 013 033 27 BNC XXX | Alu. coated  |

enter colour code

## MOUTHPIECE FOR VENTILATION DUCT

## Metal mouthpiece



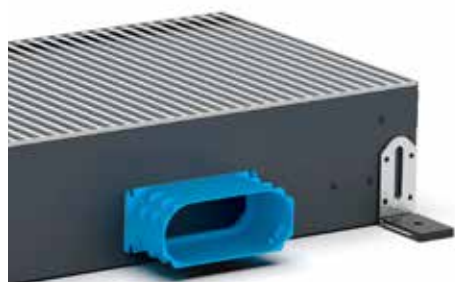
- connection for pretreated air
- height 4 cm x length 9 cm
- made from galvanised steel plate

## CODE

CLCD 013 LLL 27 XXX F DDD V1 4 x 9 cm

enter control system code  
fill in grille code  
fill out length

## Synthetic mouthpiece



- pre-assembled ex-factory
- height 5.2 cm x length 13.2 cm
- synthetic material
- supplied with snap connections
- 2 O-rings are supplied

## CODE

CLCD 013 LLL 27 RRR F DDD V5 Pre-perforated opening

CLCD 013 LLL 27 RRR F DDD V6 Pre-mountend

enter control system code  
fill in grille code  
fill out length

## Max. number of connection adapters per length

## LENGTH

|     |                       |
|-----|-----------------------|
| 080 | 1 connection adapter  |
| 110 | 2 connection adapters |
| 160 | 3 connection adapters |
| 180 | 4 connection adapters |

## HEIGHT-ADJUSTABLE BASE FOR SYSTEM FLOORS



- painted in dark grey RAL 7024
- easy installation by means of screws
- 1 set includes 2 height adjusting controls

## Number of sets per Clima Canal length

|                |
|----------------|
| L 080 = 1 set  |
| L 110 = 1 set  |
| L 160 = 2 sets |
| L 180 = 2 sets |

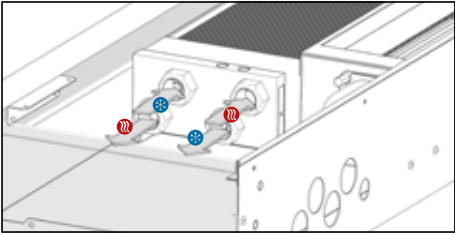
## CODE

## H

|                | cm      |
|----------------|---------|
| 5208 0507 0000 | 5 / 7   |
| 5208 0813 0000 | 8 / 13  |
| 5208 1323 0000 | 13 / 23 |
| 5208 2030 0000 | 20 / 30 |

HYDRONIC CONNECTION

- the heat exchangers with same end connection are always connected on the left side of a two-pipe installation
- always install with the heat exchangers facing the window or the wall



CONNECTION POSSIBILITIES

Connection set with Jaga two-way valve 24 VDC 1/2" default setting in 6 steps

Thermostatic head of choice

Thermostatic valve G1/2"

Lockshield valve straight G1/2"

Sleeve couplings for 3/4" Eurocone

set 297 **KVS 0.8 - default setting in 6 steps**

|                  |           |  |
|------------------|-----------|--|
| CODY JA4 24 4... | 24 VDC    |  |
| CODY JA4 10 4... | 0..10 VDC |  |

Connection set with Jaga two-way valve 24 VDC 1/2" without default setting

Thermostatic head of choice

Thermostatic valve G1/2"

Lockshield valve straight G1/2"

Sleeve couplings for 3/4" Eurocone

set 298 **KVS 1.0 - without default setting**

|                  |           |  |
|------------------|-----------|--|
| CODY WA4 24 4... | 24 VDC    |  |
| CODY WA4 10 4... | 0..10 VDC |  |

Connection set with 2 lockshield valves G1/2"

Lockshield valve angled

Lockshield valve straight G1/2"

Sleeve couplings for 3/4" Eurocone

set 299 **KVS 1.2 - Kv max. 0.6**

|                  |                              |
|------------------|------------------------------|
| CODY LOM 00 4... | fill in sleeve coupling code |
|------------------|------------------------------|

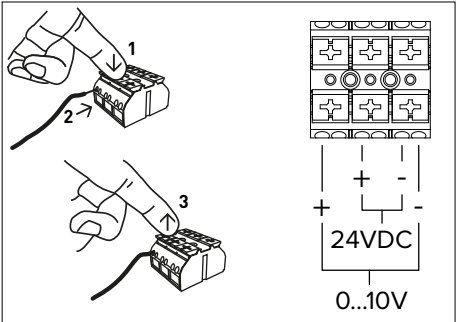
Sleeve couplings 3/4" Eurocone

| PRECISION METAL TUBE |        | SYNTHETIC OR RPE/ALU |        |
|----------------------|--------|----------------------|--------|
| CODE                 | Tube Ø | CODE                 | Tube Ø |
| 112                  | 12/1   | 612                  | 12/2   |
| 114                  | 14/1   | 614                  | 14/2   |
| 115                  | 15/1   | 616                  | 16/2   |
| 116                  | 16/1   | 618                  | 18/2   |
| 118                  | 18/1   | 619                  | 16/1.5 |
|                      |        | 620                  | 20/2   |

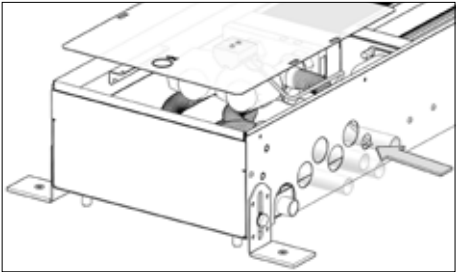
# CLIMA CANAL 13 B27

## ELECTRICAL CONNECTION

- clamp connector for 24 VDC electrical connection on the left, to be connected via external power supply.
- controlling fan speed with 0-10 V signal
- the warranty only applies when original Jaga power supplies were used



On the side of the hydronic connection, you can also find the terminal block for the electrical connection. The electrical connection is connected to the black block at the base of the protective cover.



## POWER SUPPLIES

**⚠** Jaga units are only CE: EN-60335 certified with use of the original Jaga power supplies

**Waterproof power supply 24 VDC with waterproof cable gland**

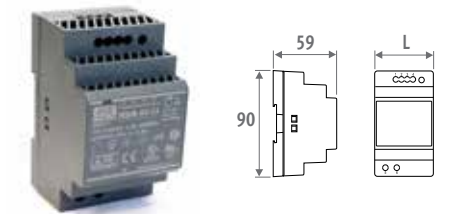


- with waterproof swivel nut connector
- in compliance with UL1310 - EN 60950-1/ Class II
- output voltage 24 VDC
- input voltage 100 - 240 VAC
- output current 1.67 A
- output 40 Watts
- dimensions L 14.5 x B 4.5 x H 3.0 cm

| CODE         | OUTPUT<br>Watts | OUTPUT CURRENT<br>A |
|--------------|-----------------|---------------------|
| 37603 010002 | 40              | 1.67                |
| 37603 010008 | 60              | 2.40                |

# ELECTRICAL CONNECTION

## Power supply DIN-rail assembly



- for DIN-rail or wall mounting in a electrical switchboard
- in compliance with UL60950 / UL508 / EN 60950-1/ TUV EN61558-2-16 / Class II
- output voltage 24 VDC
- input voltage 100 - 240 VAC
- screw connection
- LED indicator

| CODE     | L<br>mm | OUTPUT<br>Watts | OUTPUT CURRENT<br>A |
|----------|---------|-----------------|---------------------|
| 7990 054 | 3.5     | 36              | 1.50                |
| 7990 055 | 5.3     | 60              | 2.50                |
| 7990 056 | 7.0     | 92              | 3.90                |
| 7990 057 | 10.3    | 150             | 6.25                |

JDPC (JAGA DYNAMIC PRODUCT CONTROLLER)



Control panel

| CODE                             | POSITION                                                                                                                                                                                                                                              | CONTROL PANEL | EXTERNAL 0-10 V CONTROL | WATER TEMPERATURE SENSOR | AIR TEMPERATURE SENSOR |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------------------|--------------------------|------------------------|
| Jaga BMS 0-10V control (D04)     |    | -             | -                       | ✓                        | -                      |
| Jaga 3 settings controller (D06) |    | ✓             | -                       | ✓                        | -                      |
| Jaga On/off (D08)                |    | -             | -                       | ✓                        | -                      |

**JAGA BMS 0-10V CONTROL**

- Upon request for cold or heat, a BMS/home automation system or a JAGA thermostat will open the thermoelectric valve.
- When heat or cold is requested, a BMS/home automation system or JAGA thermostat will transmit a 0-10V signal.
- When the fan recognises cold (<18°C) or hot (>28°C) water, it will rotate proportionally of the 0-10V signal

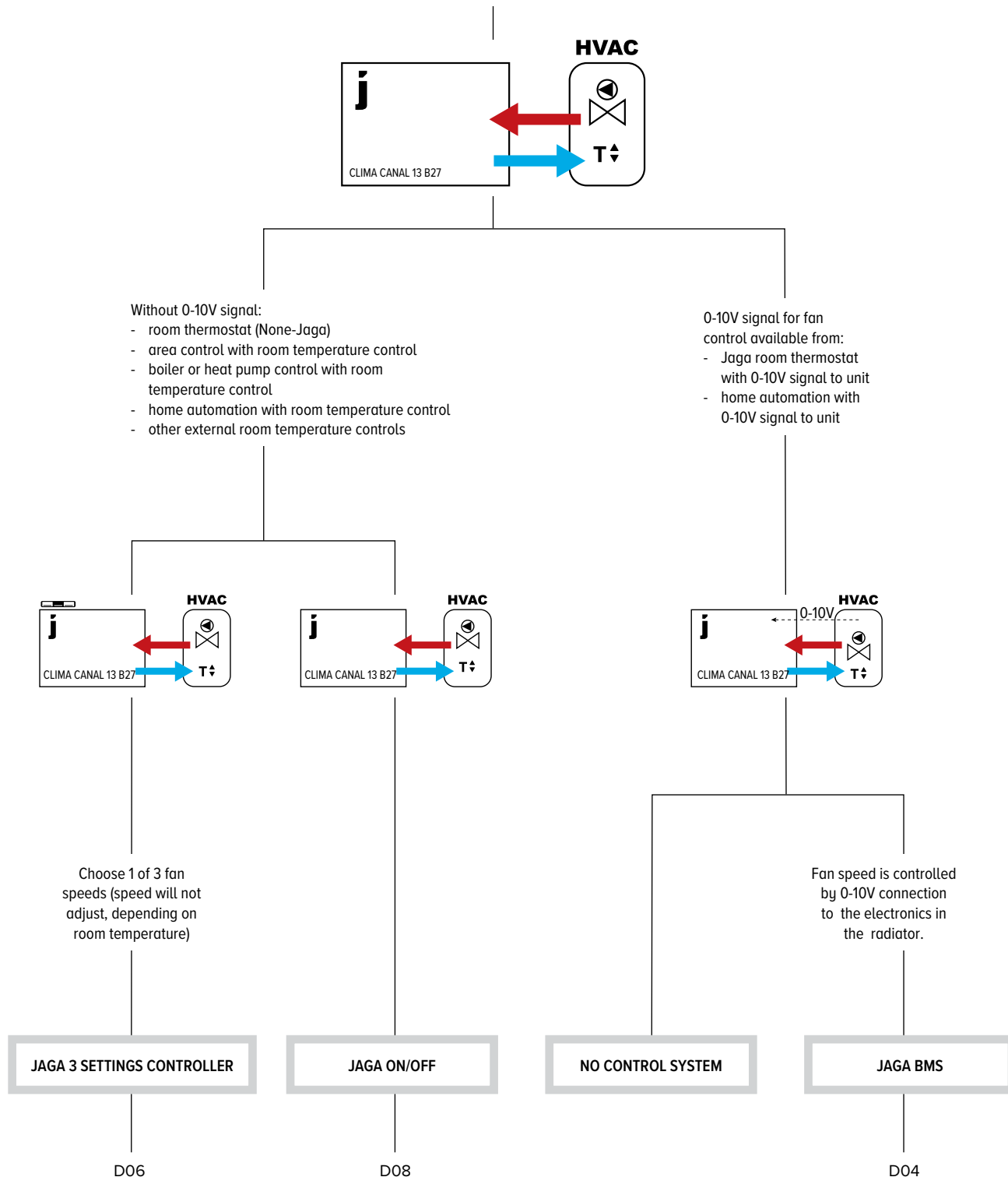
**JAGA 3 SETTINGS CONTROLLER**

- When heat or cold is requested, an external signal (thermostat, BMS/home automation, ...) a thermal engine.
- Heating: The fan will rotate at a fixed speed once the water has reached the setting of 28°C.
- Cooling: he fan will rotate at a fixed speed once the water has reached the setting of 18°C.
- The user manually selects the desired mode via the control panel  /  /  / OFF. 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.

**JAGA ON/OFF**

- When heat or cold are requested, a BMS/home automation system will open up the thermoelectric valve.
- Heating: The fan will rotate at a fixed speed once the water has reached the setting of 28°C.
- Cooling: he fan will rotate at a fixed speed once the water has reached the setting of 18°C.

**0-10V control signal for fan speed present in HVAC control?**  
Fans start when a 0-10V signal is sent to the fan. If a JDPC is added to the Clima Canal, the water temperature will be taken into account.



|        |        |       |    | CONTROL VOLTAGE | COOLING<br>(non-condensing)<br>room temperature 27°C |       | COOLING TOTAL<br>room temperature 27°C |       | PERCEPTIBLE COOLING<br>room temperature 27°C |       | HEATING<br>room temperature 20°C |       |       |       |       | SOUND PRESSURE LEVEL        | AIR FLOW | ELECTRIC POWER CONSUMPTION | ORDER CODE |
|--------|--------|-------|----|-----------------|------------------------------------------------------|-------|----------------------------------------|-------|----------------------------------------------|-------|----------------------------------|-------|-------|-------|-------|-----------------------------|----------|----------------------------|------------|
| HEIGHT | LENGTH | WIDTH |    |                 | 16/18                                                | 7/12  | 7/12                                   | 7/12  | 7/12                                         | 7/12  | 35/30                            | 45/40 | 50/45 | 55/45 | 75/65 |                             |          |                            |            |
| H      | L      | B     |    | U               | Watts                                                | Watts | Watts                                  | Watts | Watts                                        | Watts | Watts                            | Watts | Watts | Watts | Watts | dB(A)                       | m³/h     | Watts                      |            |
| cm     | cm     | cm    |    | V               |                                                      |       |                                        |       |                                              |       |                                  |       |       |       |       |                             |          |                            |            |
| QUAF   | 013    | 080   | 27 | 2               | 41                                                   | 111   | 78                                     | 90    | 163                                          | 199   | 216                              | 362   | 16.0  | 38    | 1.0   | QUAF 013 080 27 XXX F X DDD |          |                            |            |
|        |        |       |    | 4               | 84                                                   | 209   | 150                                    | 146   | 265                                          | 325   | 352                              | 590   | 19.0  | 55    | 1.6   |                             |          |                            |            |
|        |        |       |    | 6               | 127                                                  | 297   | 215                                    | 195   | 353                                          | 433   | 469                              | 786   | 27.1  | 85    | 2.9   |                             |          |                            |            |
|        |        |       |    | 8               | 170                                                  | 393   | 288                                    | 238   | 433                                          | 529   | 574                              | 962   | 35.0  | 117   | 5.0   |                             |          |                            |            |
|        |        |       |    | 10              | 214                                                  | 498   | 369                                    | 279   | 506                                          | 620   | 672                              | 1126  | 38.0  | 147   | 7.7   |                             |          |                            |            |
|        | 110    | 27    |    | 2               | 71                                                   | 191   | 135                                    | 154   | 280                                          | 342   | 371                              | 622   | 19.0  | 52    | 1.0   | QUAF 013 110 27 XXX F X DDD |          |                            |            |
|        |        |       |    | 4               | 144                                                  | 359   | 257                                    | 251   | 456                                          | 559   | 605                              | 1015  | 23.9  | 78    | 1.8   |                             |          |                            |            |
|        |        |       |    | 6               | 218                                                  | 510   | 370                                    | 334   | 607                                          | 743   | 806                              | 1351  | 29.0  | 123   | 3.6   |                             |          |                            |            |
|        |        |       |    | 8               | 293                                                  | 678   | 497                                    | 409   | 744                                          | 910   | 986                              | 1654  | 36.0  | 168   | 6.5   |                             |          |                            |            |
|        |        |       |    | 10              | 368                                                  | 856   | 635                                    | 479   | 871                                          | 1065  | 1155                             | 1936  | 39.1  | 202   | 9.8   |                             |          |                            |            |
|        | 160    | 27    |    | 2               | 125                                                  | 337   | 238                                    | 270   | 491                                          | 600   | 651                              | 1091  | 20.8  | 90    | 2.0   | QUAF 013 160 27 XXX F X DDD |          |                            |            |
|        |        |       |    | 4               | 253                                                  | 630   | 451                                    | 440   | 800                                          | 979   | 1061                             | 1779  | 25.1  | 133   | 3.5   |                             |          |                            |            |
|        |        |       |    | 6               | 383                                                  | 897   | 650                                    | 586   | 1064                                         | 1303  | 1412                             | 2367  | 31.2  | 208   | 6.5   |                             |          |                            |            |
|        |        |       |    | 8               | 513                                                  | 1187  | 870                                    | 718   | 1304                                         | 1596  | 1730                             | 2900  | 38.5  | 285   | 11.5  |                             |          |                            |            |
|        |        |       |    | 10              | 645                                                  | 1500  | 1112                                   | 840   | 1526                                         | 1868  | 2024                             | 3394  | 41.6  | 349   | 17.5  |                             |          |                            |            |
|        | 180    | 27    |    | 2               | 156                                                  | 420   | 297                                    | 338   | 615                                          | 752   | 815                              | 1367  | 22.1  | 104   | 2.0   | QUAF 013 180 27 XXX F X DDD |          |                            |            |
|        |        |       |    | 4               | 317                                                  | 790   | 565                                    | 552   | 1002                                         | 1227  | 1329                             | 2229  | 26.9  | 156   | 3.6   |                             |          |                            |            |
|        |        |       |    | 6               | 480                                                  | 1124  | 814                                    | 734   | 1334                                         | 1633  | 1770                             | 2967  | 32.0  | 246   | 7.2   |                             |          |                            |            |
|        |        |       |    | 8               | 643                                                  | 1488  | 1091                                   | 900   | 1634                                         | 2000  | 2168                             | 3635  | 39.0  | 336   | 13.0  |                             |          |                            |            |
|        |        |       |    | 10              | 808                                                  | 1879  | 1393                                   | 1053  | 1913                                         | 2342  | 2538                             | 4255  | 42.1  | 404   | 19.7  |                             |          |                            |            |

Output measured in accordance with EN 16430  
\*Noise measurement according to ISO 3741:2010, at a 2-m distance from the unit and with an assumed room attenuation of 8 dB(A)/room volume 100 m³ / reverberation time 0.5 sec.

fill in grille code  
code height adjustment:  
adjustable 0 - 4,5 cm: A  
adjustable 4,5 - 10 cm: B  
enter control system code  
Jaga BMS 0-10V control: D04  
Jaga 3 settings controller: D06  
Jaga On/off: D08



JRT-100 TB  
BLACK

8751 050019

JRT-100 TW  
WHITE

8751 050017

JRT-200 W



8751 050021

RDG 260T

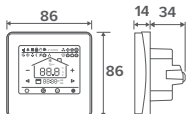
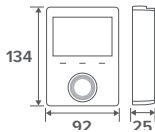
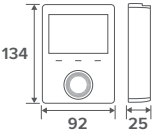


8751 050020

RDG264KN



8751 050018

|                                                | JRT-100 TB / TW                                                                     | JRT-200 W                                                                            | RDG 260T                                                                              | RDG264KN                                                                              |
|------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>POWER SUPPLY</b>                            |                                                                                     |                                                                                      |                                                                                       |                                                                                       |
| supply voltage                                 | 24V DC                                                                              | 24V DC                                                                               | 24V DC                                                                                | 24V DC                                                                                |
| <b>OUTPUT / INPUT VOLTAGE</b>                  |                                                                                     |                                                                                      |                                                                                       |                                                                                       |
| valve 24V DC contact                           | 2 (NO)                                                                              | 2                                                                                    | -                                                                                     | -                                                                                     |
| potential-free contact                         | -                                                                                   | -                                                                                    | 3 (NO)                                                                                | 3 (NO)                                                                                |
| input from keycard                             | -                                                                                   | -                                                                                    | ✓                                                                                     | ✓                                                                                     |
| input from window contact                      | -                                                                                   | -                                                                                    | ✓                                                                                     | ✓                                                                                     |
| fan (0 - 10 V DC)                              | max. +/- 10 mA                                                                      | max. +/- 10 mA                                                                       | max. +/- 5 mA                                                                         | max. +/- 5 mA                                                                         |
| manual 3-position speed controller             | ✓                                                                                   | ✓                                                                                    | ✓                                                                                     | ✓                                                                                     |
| automatic mode                                 | ✓                                                                                   | ✓                                                                                    | ✓                                                                                     | ✓                                                                                     |
| <b>APPLICATIONS</b>                            |                                                                                     |                                                                                      |                                                                                       |                                                                                       |
| 2-pipe                                         |  |   |  |  |
| manual (H/C)                                   | ✓                                                                                   | ✓                                                                                    | ✓                                                                                     | ✓                                                                                     |
| auto (H/C) - water temperature sensor required | -                                                                                   | -                                                                                    | ✓                                                                                     | ✓                                                                                     |
| 4-pipe                                         |  |   |  |  |
| manual (H/C)                                   | ✓                                                                                   | ✓                                                                                    | ✓                                                                                     | ✓                                                                                     |
| auto (H/C)                                     | ✓                                                                                   | ✓                                                                                    | ✓                                                                                     | ✓                                                                                     |
| <b>DIMENSIONS</b>                              |                                                                                     |                                                                                      |                                                                                       |                                                                                       |
| for wall mounting                              | -                                                                                   | ✓                                                                                    | ✓                                                                                     | ✓                                                                                     |
| for recessed-mounting                          | ✓                                                                                   | optional                                                                             | optional                                                                              | optional                                                                              |
|                                                |  |  |  |  |
| <b>POSITION</b>                                |                                                                                     |                                                                                      |                                                                                       |                                                                                       |
| LCD display with backlight                     | -                                                                                   | ✓                                                                                    | ✓                                                                                     | ✓                                                                                     |
| LCD touch screen with backlight                | ✓                                                                                   | -                                                                                    | -                                                                                     | -                                                                                     |
| protection category IP20                       | -                                                                                   | ✓                                                                                    | -                                                                                     | -                                                                                     |
| protection category IP30                       | ✓                                                                                   | -                                                                                    | ✓                                                                                     | ✓                                                                                     |
| Integrated CO2-sensor                          | -                                                                                   | -                                                                                    | -                                                                                     | ✓                                                                                     |
| humidity sensor                                | -                                                                                   | -                                                                                    | -                                                                                     | ✓                                                                                     |
| <b>FEATURES</b>                                |                                                                                     |                                                                                      |                                                                                       |                                                                                       |
| programmable time zones                        | ✓                                                                                   | ✓                                                                                    | ✓                                                                                     | ✓                                                                                     |
| control via Wi-Fi (smartphone app)             | ✓                                                                                   | ✓                                                                                    | -                                                                                     | -                                                                                     |
| fan start delay                                | -                                                                                   | -                                                                                    | ✓                                                                                     | ✓                                                                                     |
| continuous fan speed                           | -                                                                                   | -                                                                                    | ✓                                                                                     | ✓                                                                                     |
| temperature sensor 80 cm                       | ✓                                                                                   | optional                                                                             | optional                                                                              | optional                                                                              |

Maximum cable length in function of the number of units. For more information, contact Jaga.

|                  |     | MAX. CABLE LENGTH (M) |      |      |      |      |      |      |      |      |      |
|------------------|-----|-----------------------|------|------|------|------|------|------|------|------|------|
|                  |     | 5                     | 10   | 15   | 20   | 25   | 30   | 40   | 50   | 75   | 100  |
| TOTAL OUTPUT (W) | 10  | 0.06                  | 0.12 | 0.18 | 0.24 | 0.30 | 0.36 | 0.49 | 0.61 | 0.91 | 1.22 |
|                  | 20  | 0.12                  | 0.24 | 0.36 | 0.49 | 0.61 | 0.73 | 0.97 | 1.22 | 1.82 | 2.43 |
|                  | 30  | 0.18                  | 0.36 | 0.55 | 0.73 | 0.91 | 1.09 | 1.46 | 1.82 | 2.73 | 3.65 |
|                  | 40  | 0.24                  | 0.49 | 0.73 | 0.97 | 1.22 | 1.46 | 1.94 | 2.43 | 3.65 |      |
|                  | 50  | 0.30                  | 0.61 | 0.91 | 1.22 | 1.52 | 1.82 | 2.43 | 3.04 |      |      |
|                  | 60  | 0.36                  | 0.73 | 1.09 | 1.46 | 1.82 | 2.19 | 2.92 | 3.65 |      |      |
|                  | 70  | 0.43                  | 0.85 | 1.28 | 1.70 | 2.13 | 2.55 | 3.40 |      |      |      |
|                  | 80  | 0.49                  | 0.97 | 1.46 | 1.94 | 2.43 | 2.92 | 3.89 |      |      |      |
|                  | 90  | 0.55                  | 1.09 | 1.64 | 2.19 | 2.73 | 3.28 |      |      |      |      |
|                  | 100 | 0.61                  | 1.22 | 1.82 | 2.43 | 3.04 | 3.65 |      |      |      |      |
|                  | 110 | 0.67                  | 1.34 | 2.01 | 2.67 | 3.34 |      |      |      |      |      |
|                  | 120 | 0.73                  | 1.46 | 2.19 | 2.92 | 3.65 |      |      |      |      |      |
|                  | 130 | 0.79                  | 1.58 | 2.37 | 3.16 | 3.95 |      |      |      |      |      |
|                  | 140 | 0.85                  | 1.70 | 2.55 | 3.40 |      |      |      |      |      |      |
|                  | 150 | 0.91                  | 1.82 | 2.73 | 3.65 |      |      |      |      |      |      |

MIN. THREAD SECTION:

|            |           |            |            |
|------------|-----------|------------|------------|
| < 0.75 mm² | < 1.5 mm² | < 2.50 mm² | < 4.00 mm² |
|------------|-----------|------------|------------|

Jaga aims to simplify your installation process with these sample diagrams. Perfectly align your power supply, thermostatic valve mounting, control system, pipe system, temperature monitoring and number of units per area.

Here, you can find the most common combinations. Feel free to ask for more variations at [info@jaga.com](mailto:info@jaga.com).

### 1. POWER SUPPLY

Option 1: component power (inside the unit)

Option 2: power supply DIN-rail assembly  
(outside the unit)

### 2. THERMOSTATIC VALVE

Option 1: on the tap (inside the unit)

Option 2: on the collector (outside the unit)

### 3. CHOICE OF CONTROL SYSTEM

Option 1: thermostat JRT-100TW

Option 2: thermostat JRT-100

Option 3: thermostat JRT-200

Option 4: thermostat RDG 160T

Option 5: home automation

### 4. HYDRONIC

Option 1: 4-pipe system

### 5. TEMPERATURE MONITORING

Option 1: with temperature monitoring

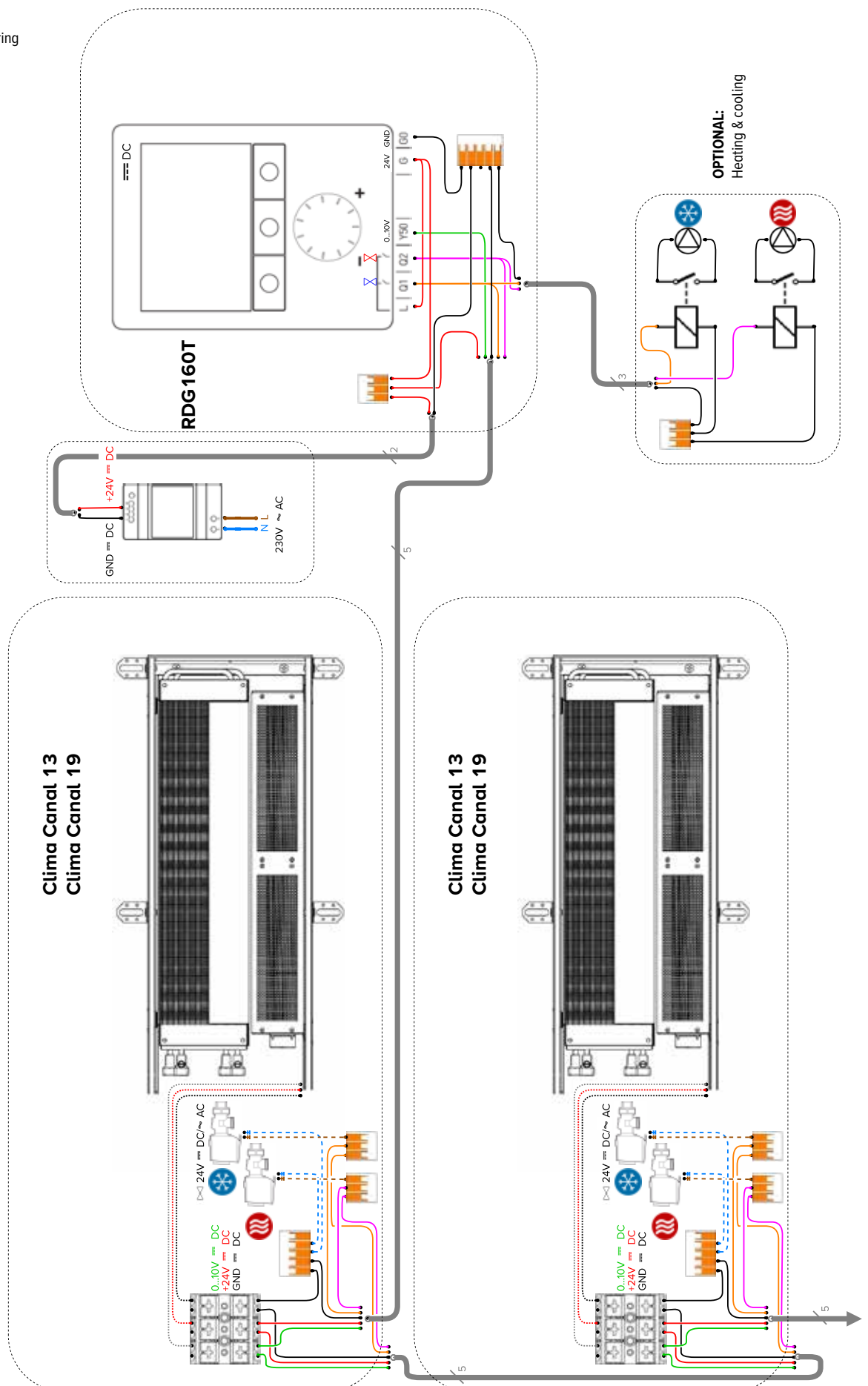
Option 2: without temperature monitoring

### 6. UNITS / ZONE

Option 1: one unit

Option 2: multiple units

- power supply DIN-rail assembly
- thermostatic valve inside the unit
- RDG160T
- 4-pipe
- without temperature monitoring
- multiple units per area



The indicated outputs at ΔT 50 are exact values measured in accordance with EN16430. This table provides a calculated value using an average correction factor for all other ΔT outputs, valid for all dimensions.

Click [www.jaga.com/selection-tools/](http://www.jaga.com/selection-tools/) to download the calculation tools with the exact outputs. The online calculation tools are kept up to date with the most recent data. Minor output differences between printed tables and the different online calculation tools are therefore completely normal and within the margins of tolerance imposed by the standard.

AVERAGE CORRECTION FACTORS DYNAMIC PRODUCTS - 75/65/20°C

| room temperature: 20°C |    | Average N-value: 1.00 |      |      |      |      |      |      |      |      |
|------------------------|----|-----------------------|------|------|------|------|------|------|------|------|
|                        | TR | 65                    | 60   | 55   | 50   | 45   | 40   | 35   | 30   | 25   |
| TA                     |    |                       |      |      |      |      |      |      |      |      |
| 75                     |    | 1.00                  | 0.95 | 0.89 | 0.83 | 0.76 | 0.69 | 0.62 | 0.53 | 0.42 |
| 70                     |    | 0.95                  | 0.90 | 0.84 | 0.79 | 0.72 | 0.66 | 0.58 | 0.50 | 0.39 |
| 65                     |    |                       | 0.85 | 0.80 | 0.74 | 0.68 | 0.62 | 0.55 | 0.47 | 0.37 |
| 60                     |    |                       |      | 0.75 | 0.70 | 0.64 | 0.58 | 0.51 | 0.43 | 0.34 |
| 55                     |    |                       |      |      | 0.65 | 0.60 | 0.54 | 0.47 | 0.40 | 0.31 |
| 50                     |    |                       |      |      |      | 0.55 | 0.49 | 0.43 | 0.37 | 0.28 |
| 45                     |    |                       |      |      |      |      | 0.45 | 0.39 | 0.33 | 0.25 |
| 40                     |    |                       |      |      |      |      |      | 0.35 | 0.29 | 0.22 |
| 35                     |    |                       |      |      |      |      |      |      | 0.25 | 0.18 |
| 30                     |    |                       |      |      |      |      |      |      |      | 0.14 |

| room temperature: 24°C |    | Average N-value: 1.00 |      |      |      |      |      |      |      |      |
|------------------------|----|-----------------------|------|------|------|------|------|------|------|------|
|                        | TR | 65                    | 60   | 55   | 50   | 45   | 40   | 35   | 30   | 25   |
| TA                     |    |                       |      |      |      |      |      |      |      |      |
| 75                     |    | 0.92                  | 0.86 | 0.81 | 0.74 | 0.68 | 0.61 | 0.52 | 0.42 | 0.26 |
| 70                     |    | 0.87                  | 0.82 | 0.76 | 0.70 | 0.64 | 0.57 | 0.49 | 0.39 | 0.24 |
| 65                     |    |                       | 0.77 | 0.72 | 0.66 | 0.60 | 0.53 | 0.46 | 0.37 | 0.22 |
| 60                     |    |                       |      | 0.67 | 0.62 | 0.56 | 0.49 | 0.42 | 0.34 | 0.20 |
| 55                     |    |                       |      |      | 0.57 | 0.52 | 0.46 | 0.39 | 0.31 | 0.18 |
| 50                     |    |                       |      |      |      | 0.47 | 0.41 | 0.35 | 0.27 | 0.15 |
| 45                     |    |                       |      |      |      |      | 0.37 | 0.31 | 0.24 | 0.13 |
| 40                     |    |                       |      |      |      |      |      | 0.27 | 0.20 | 0.11 |
| 35                     |    |                       |      |      |      |      |      |      | 0.17 | 0.08 |
| 30                     |    |                       |      |      |      |      |      |      |      | 0.06 |

## GUIDELINE FOR LIMITING FLOW NOISE

| TUBE                     | outer Ø | Wall thick-<br>ness | Max. water<br>speed<br>(EN10255) | water content<br>per metre | max. water<br>flow | Maximum power at ΔT (° C) (T supply - T return) |        |       |       |       |       |       |
|--------------------------|---------|---------------------|----------------------------------|----------------------------|--------------------|-------------------------------------------------|--------|-------|-------|-------|-------|-------|
|                          |         |                     |                                  |                            |                    | ΔT 30                                           | ΔT 20  | ΔT 10 | ΔT 5  | ΔT 4  | ΔT 3  | ΔT 2  |
|                          |         |                     |                                  |                            |                    | mm                                              | mm     | m/s   | l     | kg/h  | Watts | Watts |
| GALVANISED PIPE DIN 2440 |         |                     |                                  |                            |                    |                                                 |        |       |       |       |       |       |
| 3/8 DN10 OD              | 17.2    | 2.35                | 0.40                             | 0.12                       | 173                | 6028                                            | 4019   | 2009  | 1005  | 804   | 603   | 402   |
| 1/2 DN15 OD              | 21.3    | 2.65                | 0.40                             | 0.20                       | 288                | 10046                                           | 6698   | 3349  | 1674  | 1340  | 1005  | 670   |
| 3/4 DN20 OD              | 26.9    | 2.65                | 0.42                             | 0.37                       | 559                | 19515                                           | 13010  | 6505  | 3253  | 2602  | 1952  | 1301  |
| 1 DN25 OD                | 33.7    | 3.25                | 0.49                             | 0.58                       | 1023               | 35690                                           | 23793  | 11897 | 5948  | 4759  | 3569  | 2379  |
| 1 1/4 DN32 OD            | 42.4    | 3.25                | 0.60                             | 1.01                       | 2182               | 76101                                           | 50734  | 25367 | 12684 | 10147 | 7610  | 5073  |
| 1 1/2 DN40 OD            | 48.3    | 3.25                | 0.66                             | 1.37                       | 3255               | 113549                                          | 75700  | 37850 | 18925 | 15140 | 11355 | 7570  |
| 2 DN50 OD                | 60.3    | 3.65                | 0.80                             | 2.21                       | 6365               | 222025                                          | 148017 | 74008 | 37004 | 29603 | 22203 | 14802 |
| PRECISION METAL TUBE     |         |                     |                                  |                            |                    |                                                 |        |       |       |       |       |       |
| 10/1                     | 10      | 1.00                | 0.40                             | 0.05                       | 72                 | 2512                                            | 1674   | 837   | 419   | 335   | 251   | 167   |
| 12/1                     | 12      | 1.00                | 0.40                             | 0.08                       | 115                | 4019                                            | 2679   | 1340  | 670   | 536   | 402   | 268   |
| 14/1                     | 14      | 1.00                | 0.40                             | 0.11                       | 158                | 5526                                            | 3684   | 1842  | 921   | 737   | 553   | 368   |
| 15/1                     | 15      | 1.00                | 0.40                             | 0.13                       | 187                | 6530                                            | 4353   | 2177  | 1088  | 871   | 653   | 435   |
| 16/1                     | 16      | 1.00                | 0.40                             | 0.15                       | 216                | 7535                                            | 5023   | 2512  | 1256  | 1005  | 753   | 502   |
| 18/1                     | 18      | 1.00                | 0.40                             | 0.20                       | 288                | 10046                                           | 6698   | 3349  | 1674  | 1340  | 1005  | 670   |
| 22/1                     | 22      | 1.00                | 0.40                             | 0.31                       | 446                | 15572                                           | 10381  | 5191  | 2595  | 2076  | 1557  | 1038  |
| 28/1                     | 28      | 1.00                | 0.47                             | 0.53                       | 904                | 31522                                           | 21014  | 10507 | 5254  | 4203  | 3152  | 2101  |
| RPE/ALU                  |         |                     |                                  |                            |                    |                                                 |        |       |       |       |       |       |
| 12/2                     | 12      | 2.00                | 0.40                             | 0.05                       | 72                 | 2512                                            | 1674   | 837   | 419   | 335   | 251   | 167   |
| 14/2                     | 14      | 2.00                | 0.40                             | 0.08                       | 115                | 4019                                            | 2679   | 1340  | 670   | 536   | 402   | 268   |
| 16/1.5                   | 16      | 1.50                | 0.40                             | 0.13                       | 187                | 6530                                            | 4353   | 2177  | 1088  | 871   | 653   | 435   |
| 16/2                     | 16      | 2.00                | 0.40                             | 0.11                       | 158                | 5526                                            | 3684   | 1842  | 921   | 737   | 553   | 368   |
| 17/2                     | 17      | 2.00                | 0.40                             | 0.13                       | 187                | 6530                                            | 4353   | 2177  | 1088  | 871   | 653   | 435   |
| 18/2                     | 18      | 2.00                | 0.40                             | 0.15                       | 216                | 7535                                            | 5023   | 2512  | 1256  | 1005  | 753   | 502   |
| 20/2                     | 20      | 2.00                | 0.40                             | 0.20                       | 288                | 10046                                           | 6698   | 3349  | 1674  | 1340  | 1005  | 670   |
| 26/3                     | 26      | 3.00                | 0.40                             | 0.31                       | 446                | 15572                                           | 10381  | 5191  | 2595  | 2076  | 1557  | 1038  |
| 32/3                     | 32      | 3.00                | 0.47                             | 0.53                       | 904                | 31522                                           | 21014  | 10507 | 5254  | 4203  | 3152  | 2101  |
| 40/3.5                   | 40      | 3.50                | 0.56                             | 0.86                       | 1726               | 60220                                           | 40147  | 20073 | 10037 | 8029  | 6022  | 4015  |
| 50/4.25                  | 50      | 4.25                | 0.66                             | 1.35                       | 3206               | 111824                                          | 74549  | 37275 | 18637 | 14910 | 11182 | 7455  |
| 63/5                     | 63      | 5.00                | 0.80                             | 2.21                       | 6346               | 221359                                          | 147573 | 73786 | 36893 | 29515 | 22136 | 14757 |

