jaga

CLIMATE DESIGNERS

CLIMA CANAL 19

EXPORT@JAGA.BE +32 (0) 11 29 41 12

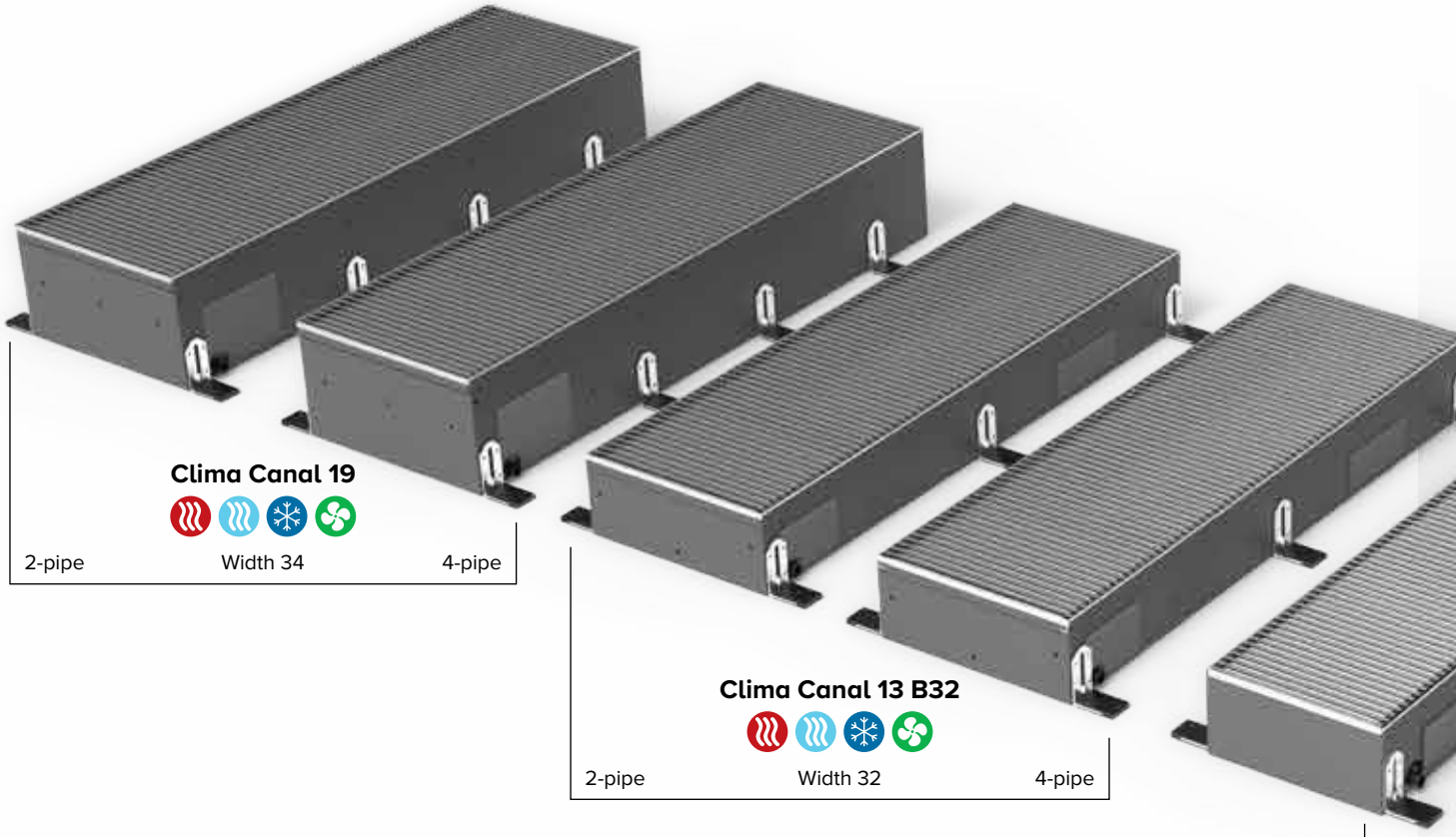
CLIMA CANAL 19

COMPLETE CLIMATE CONTROL, POWERFUL AND DISCREET

The Jaga 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.



Clima Canal 19

2-pipe Width 34 4-pipe

Clima Canal 13 B32

2-pipe Width 32 4-pipe

Clima Canal 13 B27

Width 27
4-pipe

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

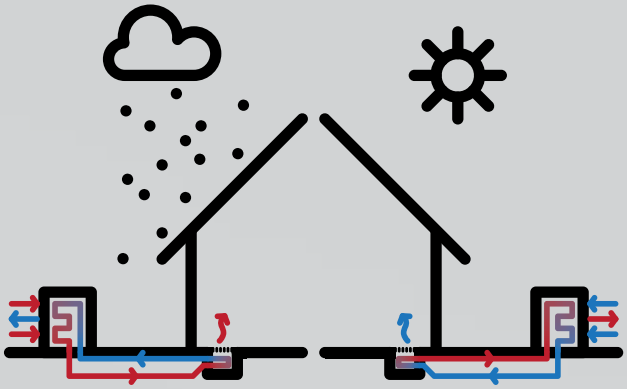
The use of high-quality materials, such as copper and aluminium for the heat exchanger and electro-galvanised steel for the duct, provides a perfect rustproof end product, with all its components carefully coated with a UV-resistant polyester paint of the highest quality. The specially selected EC motor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

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).

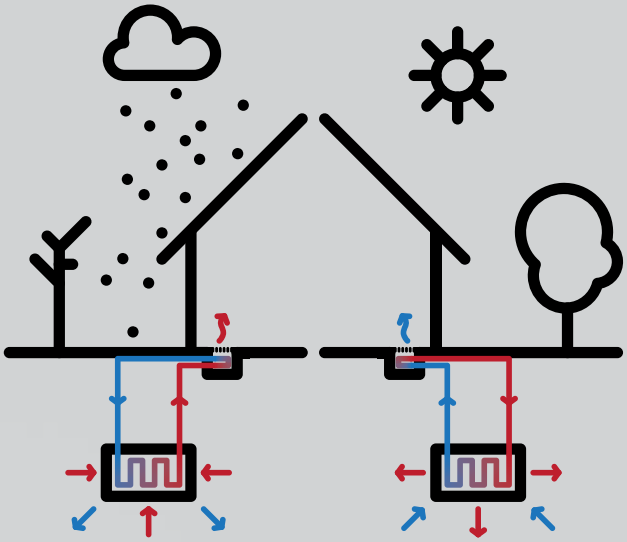
WITH AIR-TO-WATER HEAT PUMP



WINTER
Heat your home with free energy extracted from the outside air.

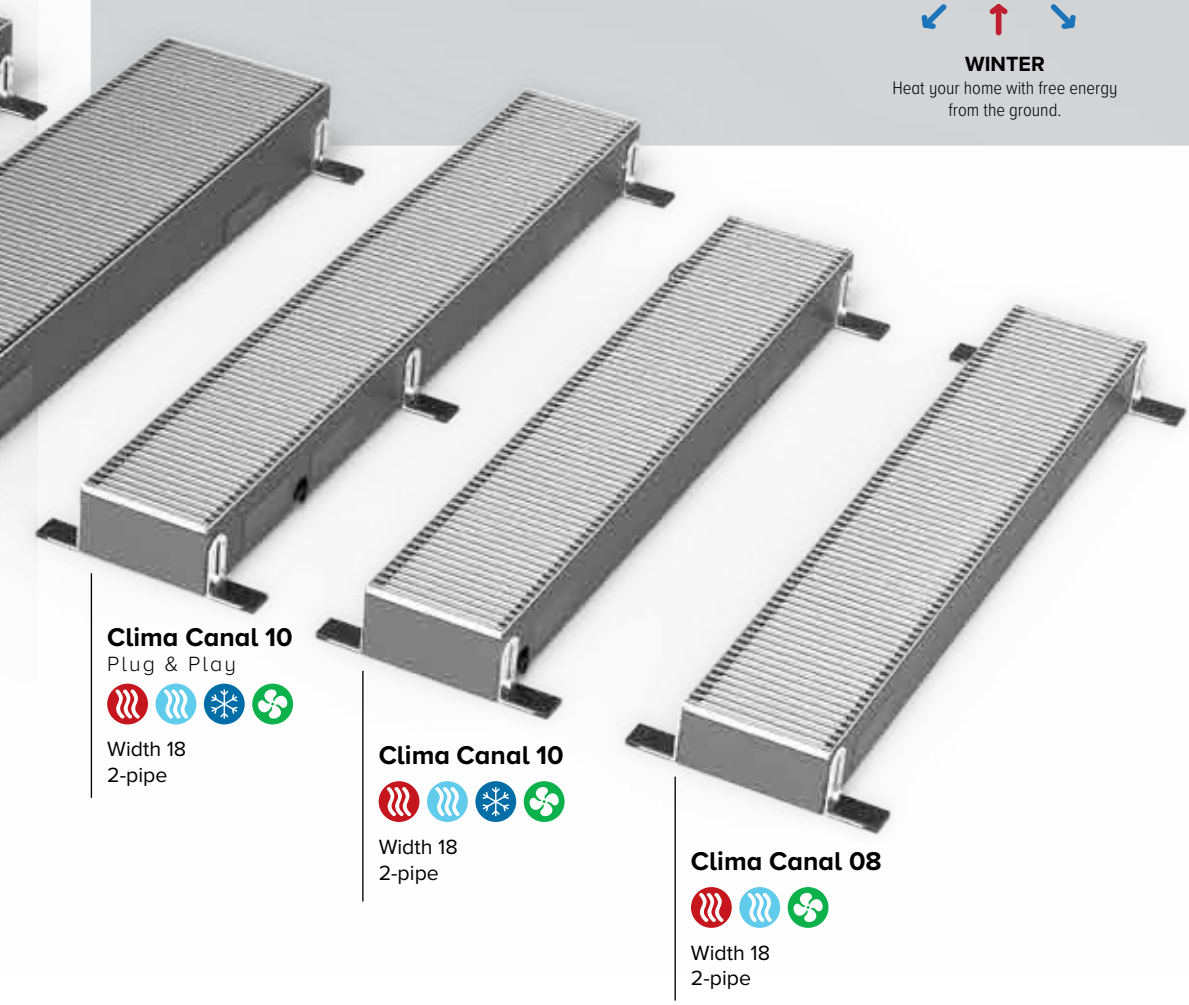
SUMMER
Cool your house by releasing the heat energy to the outside air.

WITH GEOTHERMAL HEAT PUMP



WINTER
Heat your home with free energy from the ground.

SUMMER
Cool your home by releasing heat energy back to the ground.



Clima Canal 10
Plug & Play

Width 18
2-pipe

Clima Canal 10

Width 18
2-pipe

Clima Canal 08

Width 18
2-pipe

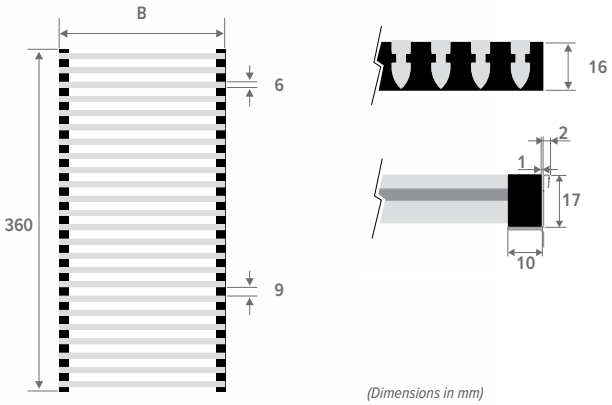
- Condensing cooling
- Non-condensing cooling
- Ventilation (option)
- Heating

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



(Dimensions in mm)

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

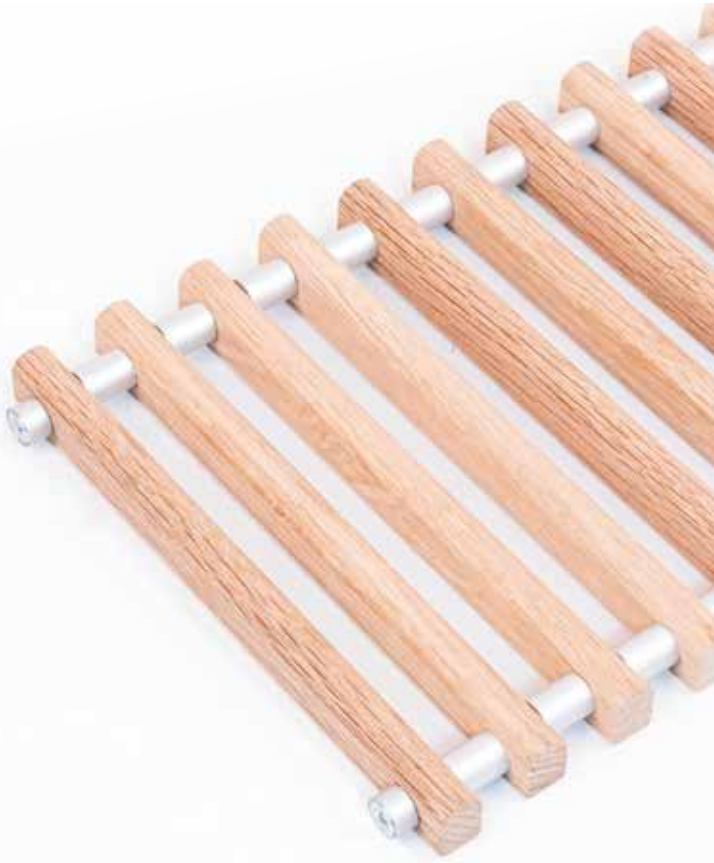
BAN/AN1 Black

BAN/AN2 Dark brown

BAN/AN3 Brass-coloured

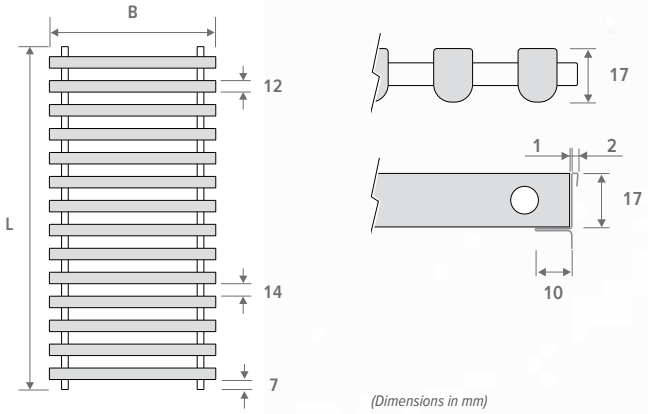
WOODEN ROLL-UP GRILLES

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



(Dimensions in mm)

NATURAL WOODEN GRILLES

BON Oak natural

BBN Beech natural

VARNISHED WOODEN GRILLES

BOV Oak varnished

BBV Beech varnished

jaga

CLIMATE
DESIGNERS

CLIMA CANAL 19

PROTECTION PANEL
panel for mounting and site protection

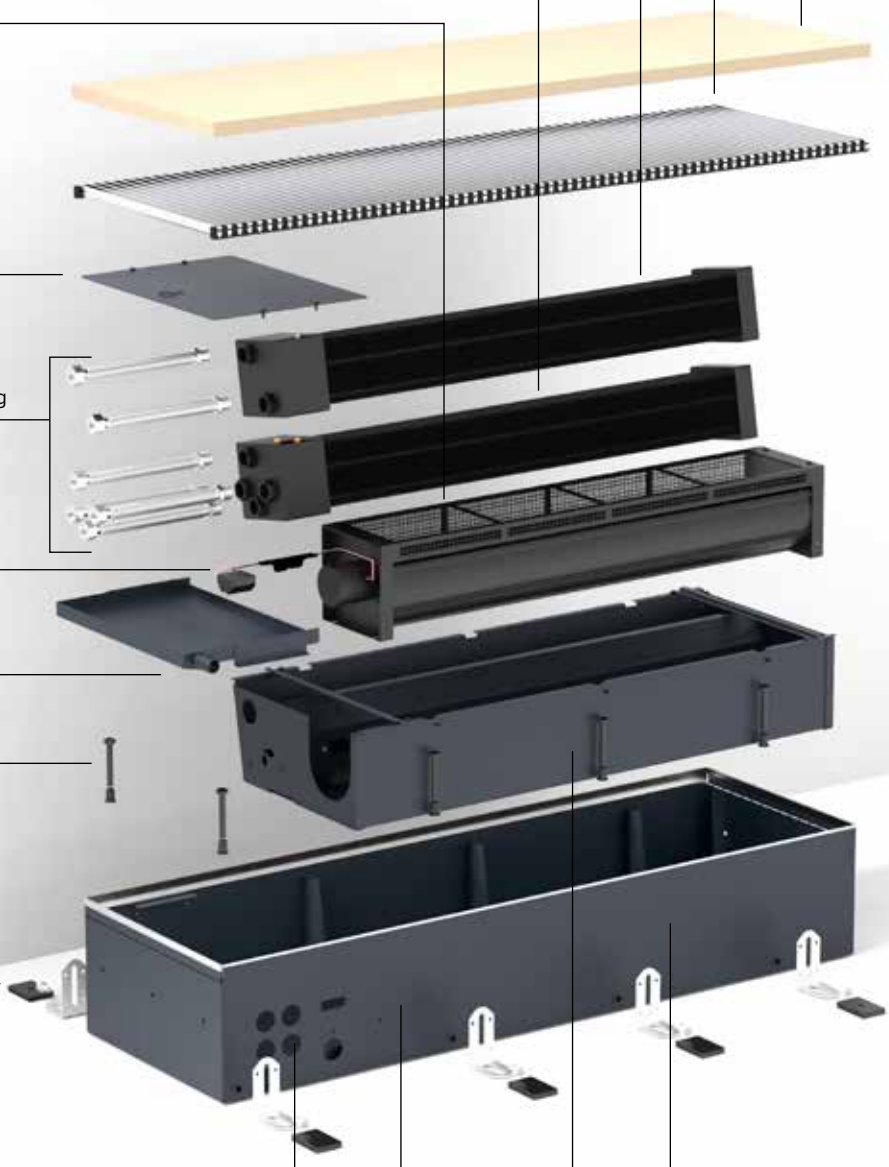
GRILLE
aluminium and wooden grilles in a variety of colours and materials

alu. natural grille | coated alu grille | coloured anodised alu grille | natural wooden grille | varnished wooden grille

DYNAMIC HEAT EXCHANGER 2-PIPE

DYNAMIC HEAT EXCHANGER 4-PIPE

EC FANS



VALVES COVER PLATE

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

ELECTRICAL CONNECTION ON THE INSIDE

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

HEIGHT ADJUSTMENT SCREW

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

HYDRONIC & ELECTRICAL CONNECTION
always left-hand side

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

INNER HOUSING

OPTIONAL
nozzle(s) for ventilation duct

CLIMA CANAL 19

ORDER CODE CLIMA CANAL 19 2-PIPE

CCAF 019 105 34 XXX F A D05 VV

- VV — *Option: air outlet vent*
- D05 — *Control:*
  - *Jaga BMS 0-10V control: D03*
  - *Jaga 3 settings controller: D05*
  - *Jaga On/off: D07*
- A — *Height adjustment:*
  - *Adjustable 0 - 4,5 cm: A*
  - *Adjustable 4,5 - 10 cm: B*
- F — *Stainless steel flexible connections*
- XXX — *Grille*
- 34 — *Width*
- 105 — *Length*
- 019 — *Height*

ORDER CODE CLIMA CANAL 19 4-PIPE

QCAF 019 105 34 XXX F A D06 VV

- VV — *Option: air outlet vent*
- D06 — *Control:*
  - *Jaga BMS 0-10V control: D04*
  - *Jaga 3 settings controller: D06*
  - *Jaga On/off: D08*
- A — *Height adjustment:*
  - *Adjustable 0 - 4,5 cm: A*
  - *Adjustable 4,5 - 10 cm: B*
- F — *Stainless steel flexible connections*
- XXX — *Grille*
- 34 — *Width*
- 105 — *Length*
- 019 — *Height*

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
- 2 stainless steel flexible connections 1/2", 15 cm long
- provided as standard to enable continuous installation
- cover plate

2-PIPE: C

4-PIPE: Q

HEIGHT

19 cm

LENGTH

105 cm / 120 cm / 200 cm / 280 cm

WIDTH

34 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)

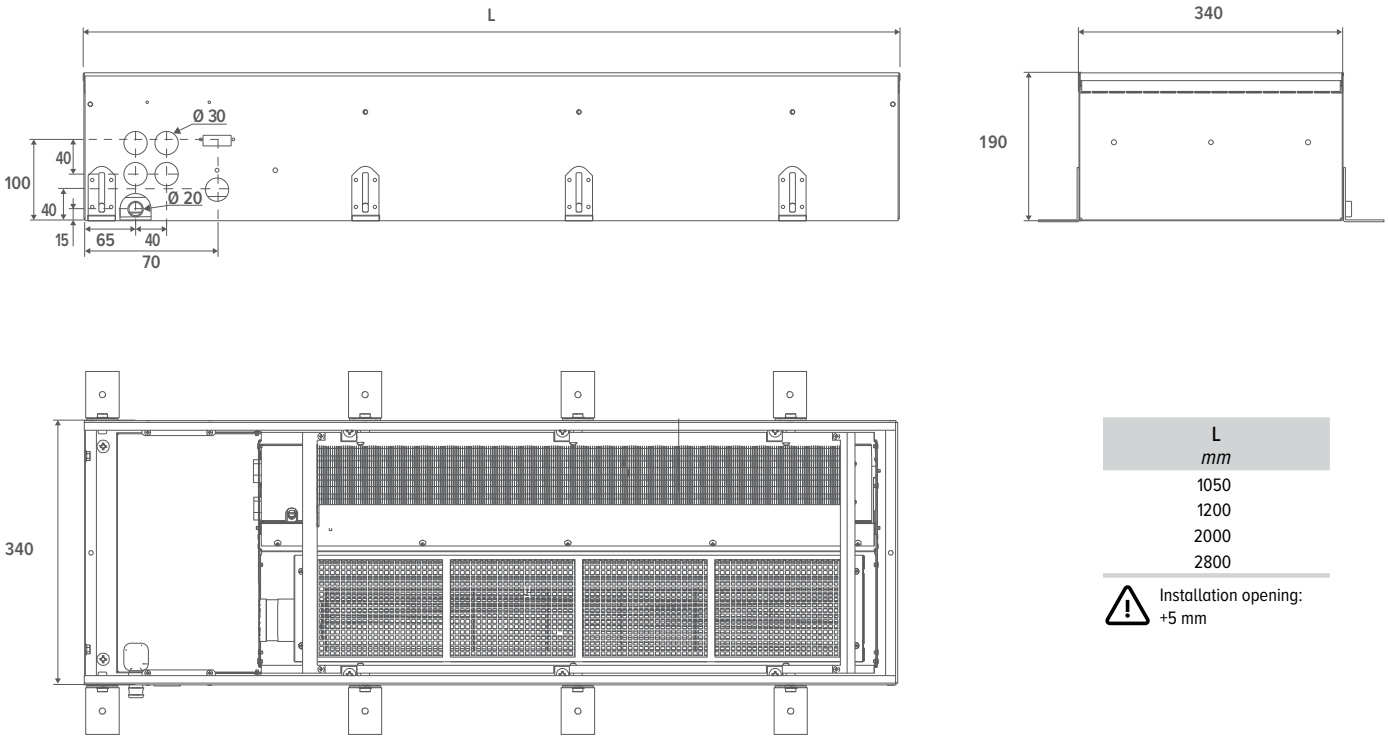
Control panel

OPTIE

AIR OUTLET VENT

CLIMA CANAL 19

DIMENSIONS *(in mm)*



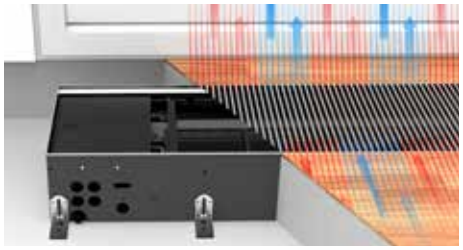
L *mm*
1050
1200
2000
2800

Installation opening:
+5 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

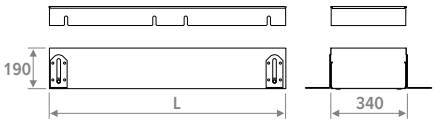
Operating principle



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 19 > 23 cm
- height control with fine adjustment to align with the finished floor
- protection panel

CODE	L *cm*
CCAD 019 105 34 XXX	105
CCAD 019 120 34 XXX	120
CCAD 019 200 34 XXX	200
CCAD 019 280 34 XXX	280

fill in grille code

CORNER PIECE

- aluminium grille natural or coated
- duct with stainless steel grille support
- height adjustment: 19 > 23 cm

CODE	
CCAD 019 040 34 BNA	Alu. natural
CCAD 019 040 34 BNC XXX	Alu. coated

enter colour code

MOUTHPIECE FOR VENTILATION DUCT

Metal mouthpiece

- connection for pretreated air
- supply diameter: Ø8 - Ø10 - Ø12.5
- made from galvanised steel plate

CODE	
CCAD 019 LLL 34 XXX F DDD **V2**	Ø8 cm
CCAD 019 LLL 34 XXX F DDD **V3**	Ø10 cm
CCAD 019 LLL 34 XXX F DDD **V4**	Ø12.5 cm
QCAD 019 LLL 34 XXX F DDD **V2**	Ø8 cm
QCAD 019 LLL 34 XXX F DDD **V3**	Ø10 cm
QCAD 019 LLL 34 XXX F DDD **V4**	Ø12.5 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	
CCAD 019 LLL 34 XXX F DDD **V5**	pre-perforated opening
CCAD 019 LLL 34 XXX F DDD **V6**	pre-mountend

enter control system code

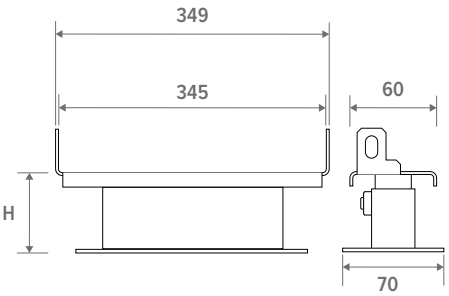
fill in grille code

fill out length

Max. number of connection adapters per length

LENGTH	
105	2 connection adapters
120	2 connection adapters
200	4 connection adapters
280	5 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

CODE	H *cm*
5212 0507 0000	5 / 7
5212 0813 0000	8 / 13
5212 1323 0000	13 / 23
5212 2030 0000	20 / 30

HYDRONIC CONNECTION

2-pipe

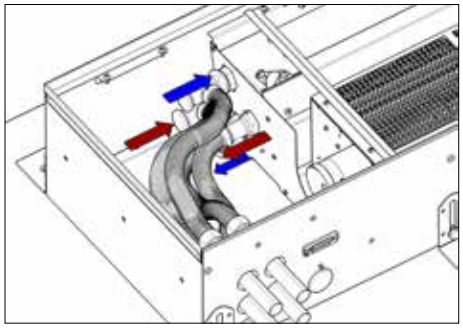
the two-pipe heat exchangers with single-sided connection are always connected to the leftside of a two-pipe installation

4-pipe

the 4-pipe heat exchanger with single connection is always connected to the left of an installation with two separate hydronic circuits

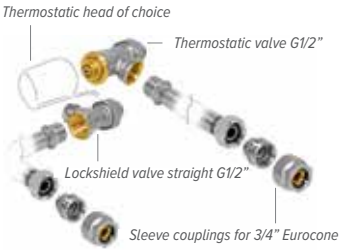
General

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" without default setting

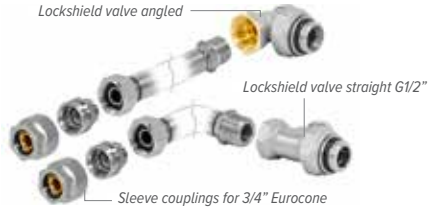


set 298 **KVS 1.0 - without default setting**

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

fill in sleeve coupling code

Connection set with 2 lockshield valves G1/2"



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

CODY LOM 00 4...

fill in sleeve coupling code

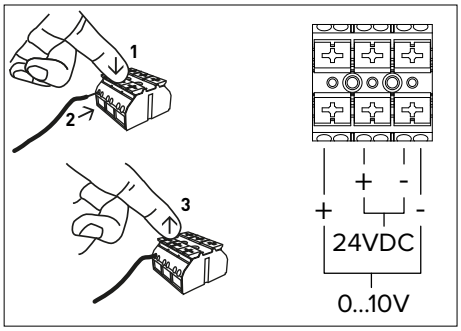
Sleeve couplings 3/4" Eurocone

PRECISION METAL TUBE	
CODE	*Tube Ø*
112	12/1
114	14/1
115	15/1
116	16/1
118	18/1

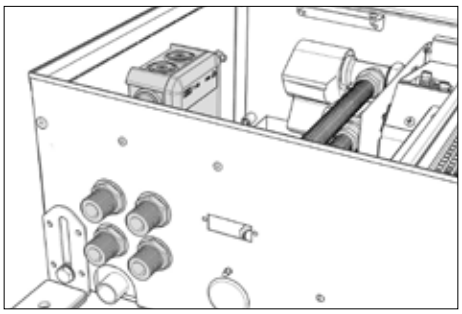
SYNTHETIC OR RPE/ALU	
CODE	*Tube Ø*
612	12/2
614	14/2
616	16/2
618	18/2
619	16/1.5
620	20/2

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 inside the white connection box at the top of the box.



POWER SUPPLIES

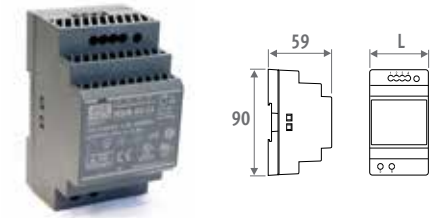
⚠ Jaga units are only CE: EN-60335 certified with use of the original Jaga power supplies

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	OUTPUT CURRENT
	Watts	*A*
37603 010002	40	1.67
37603 010008	60	2.40

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	OUTPUT	OUTPUT CURRENT
	mm	*Watts*	*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	2-PIPE	4-PIPE	CONTROL PANEL	EXTERNAL 0-10 V CONTROL	WATER TEMPERATURE SENSOR	AIR TEMPERATURE SENSOR
Jaga BMS 0-10V control (D03)		✓	-	-	-	✓	-
Jaga BMS 0-10V control (D04)		-	✓	-	-	✓	-
Jaga 3 settings controller (D05)		✓	-	✓	-	✓	-
Jaga 3 settings controller (D06)		-	✓	✓	-	✓	-
Jaga On/off (D07)		✓	-	-	-	✓	-
Jaga On/off (D08)		-	✓	-	-	✓	-

JAGA BMS 0-10V CONTROL

- Upon request for cold or heat, a BMS/home automation system or a JAGA termostat 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

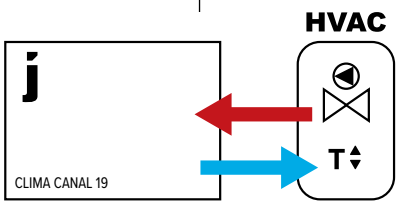
JAGA 3 SETTINGS CONTROLLER

- 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

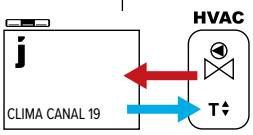
- When heat or cold are requested, a BMS/home automation system will open up the thermoelectric valve.
- Heating: The fan will rotate at a fixed speed once the water has reached the setting of 28°C.
- Cooling: he fan will rotate at a fixed speed once the water has reached the setting of 18°C.

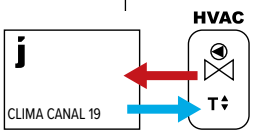
0-10V control signal for fan speed present in HVAC control?
Fans start when a 0-10V signal is sent to the fan. If a JDPC is added to the Clima Canal, the water temperature will be taken into account.

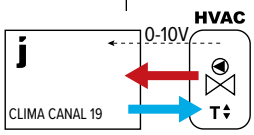


Without 0-10V signal:
- room thermostat (None-Jaga)
- area control with room temperature control
- boiler or heat pump control with room temperature control
- home automation with room temperature control
- other external room temperature controls

0-10V signal for fan control available from:
- Jaga room thermostat with 0-10V signal to unit
- home automation with 0-10V signal to unit







Choose 1 of 3 fan speeds (speed will not adjust, depending on room temperature)

Fan speed is controlled by 0-10V connection to the electronics in the radiator.

JAGA 3 SETTINGS CONTROLLER

JAGA ON/OFF

NO CONTROL SYSTEM

JAGA BMS

Coding:

JAGA 3 SETTINGS CONTROLLER		JAGA ON/OFF		JAGA BMS	
D05	D06	D07	D08	D03	D04
2-pipe	4-pipe	2-pipe	4-pipe	2-pipe	4-pipe

CLIMA CANAL 19

2-PIPE

	HEIGHT	LENGTH	WIDTH	CONTROL VOLTAGE	COOLING (non-condensing) room temperature 27°C	COOLING TOTAL room temperature 27°C	PERCEPTIBLE COOLING room temperature 27°C	HEATING room temperature 20°C				SOUND PRESSURE LEVEL	AIR FLOW	ELECTRIC POWER CONSUMPTION	ORDER CODE
	H	L	B	U	16/18	7/12	7/12	35/30	45/40	50/45	55/45	75/65			
	cm	cm	cm	V	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	dB(A)	m^3/h	Watts	
CCAF	019	105	34	2	164	378	267	308	560	685	743	1245	17.0	97	1.5	CCAF 019 105 34 XXX F X DDD
				4	321	729	522	486	884	1082	1172	1965	21.0	167	2.7	
				6	474	1069	775	635	1154	1413	1531	2567	27.0	236	4.8	
				8	626	1405	1030	768	1395	1707	1850	3102	35.0	309	9.3	
				10	777	1739	1290	889	1615	1977	2143	3593	40.0	351	15.0	
		120	34	2	204	469	332	383	696	852	923	1548	19.0	82	3.2	CCAF 019 120 34 XXX F X DDD
				4	398	906	649	604	1098	1344	1457	2442	22.0	179	6.7	
				6	589	1328	962	789	1434	1755	1902	3189	28.0	260	12.1	
				8	778	1746	1280	954	1733	2121	2299	3854	36.0	351	18.4	
				10	965	2160	1602	1105	2007	2457	2662	4464	41.0	401	24.0	
		200	34	2	398	916	648	748	1359	1663	1802	3021	21.1	179	4.6	CCAF 019 200 34 XXX F X DDD
				4	778	1770	1267	1180	2144	2624	2844	4768	24.6	346	9.4	
				6	1151	2594	1879	1541	2800	3427	3714	6227	30.5	496	16.9	
				8	1519	3409	2499	1862	3384	4141	4488	7525	38.5	660	27.7	
				10	1885	4218	3128	2157	3919	4796	5198	8716	43.5	752	38.9	
		280	34	2	592	1363	964	1112	2021	2474	2681	4495	22.5	276	6.1	CCAF 019 280 34 XXX F X DDD
				4	1157	2633	1885	1756	3190	3904	4231	7094	26.1	513	12.1	
				6	1712	3859	2796	2293	4166	5098	5525	9264	32.1	732	21.7	
				8	2260	5072	3718	2770	5034	6161	6677	11196	40.1	969	37.0	
				10	2804	6275	4655	3209	5831	7136	7734	12967	45.1	1103	53.8	

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 m^3 / 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: D03
Jaga 3 settings controller: D05
Jaga On/off: D07

CLIMA CANAL 19

4-PIPE

	HEIGHT	LENGTH	WIDTH	CONTROL VOLTAGE	COOLING (non-condensing) room temperature 27°C	COOLING TOTAL room temperature 27°C	PERCEPTIBLE COOLING room temperature 27°C	HEATING room temperature 20°C				SOUND PRESSURE LEVEL	AIR FLOW	ELECTRIC POWER CONSUMPTION	ORDER CODE
	H	**L**	**B**	**U**	**16/18**	**7/12**	**7/12**	**35/30**	**45/40**	**50/45**	**55/45**	**75/65**			
	cm	*cm*	*cm*	*V*	*Watts*	*Watts*	*Watts*	*Watts*	*Watts*	*Watts*	*Watts*	*Watts*	*dB(A)*	*m³/h*	*Watts*	
QCAF	**019**	**105**	**34**	**2**	149	343	243	205	373	457	495	830	17.0	97	1.5	QCAF 019 105 34 XXX F X DDD
				4	291	663	475	324	589	721	781	1310	21.0	167	2.7	
				6	431	972	704	423	769	942	1021	1711	27.0	236	4.8	
				8	569	1277	937	512	930	1138	1233	2068	35.0	309	9.3	
				10	706	1581	1172	593	1077	1318	1428	2395	40.0	351	15.0	
		120	**34**	**2**	185	427	302	255	464	568	615	1032	19.0	82	3.2	QCAF 019 120 34 XXX F X DDD
				4	362	824	590	403	732	896	971	1628	22.0	179	6.7	
				6	536	1208	875	526	956	1170	1268	2126	28.0	260	12.1	
				8	707	1587	1164	636	1155	1414	1532	2570	36.0	351	18.4	
				10	878	1964	1457	736	1338	1638	1775	2976	41.0	401	24.0	
		200	**34**	**2**	362	833	589	498	906	1108	1201	2014	21.1	179	4.6	QCAF 019 200 34 XXX F X DDD
				4	707	1609	1152	787	1429	1749	1896	3179	24.6	346	9.4	
				6	1046	2358	1708	1027	1867	2285	2476	4151	30.5	496	16.9	
				8	1381	3099	2272	1241	2256	2761	2992	5017	38.5	660	27.7	
				10	1714	3834	2844	1438	2613	3198	3465	5810	43.5	752	38.9	
		280	**34**	**2**	538	1239	877	742	1348	1649	1787	2997	22.5	276	6.1	QCAF 019 280 34 XXX F X DDD
				4	1052	2394	1713	1170	2127	2603	2821	4729	26.1	513	12.1	
				6	1556	3508	2542	1528	2777	3399	3683	6176	32.1	732	21.7	
				8	2055	4611	3380	1847	3356	4108	4451	7464	40.1	969	37.0	
				10	2549	5705	4231	2139	3887	4757	5156	8645	45.1	1103	53.8	

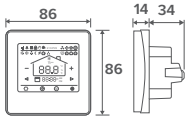
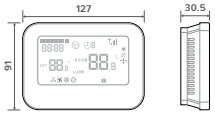
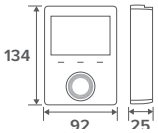
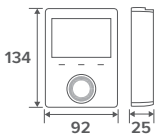
Output measured in accordance with EN 16430
**Noise measurement according to ISO 3741:2010, at a 2-m distance from the unit and with an assumed room attenuation of 8 dB(A)/room volume 100 m³ / reverberation time 0.5 sec.*

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	JRT-100 TW WHITE	JRT-200 W	RDG 260T	RDG264KN
					
	8751 050019	8751 050017	8751 050021	8751 050020	8751 050018

		JRT-100 TB / TW	JRT-200 W	RDG 260T	RDG264KN
POWER SUPPLY					
supply voltage		24V DC	24V DC	24V DC	24V DC
OUTPUT / INPUT VOLTAGE					
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		✓	✓	✓	✓
APPLICATIONS					
2-pipe					
manual (H/C)		✓	✓	✓	✓
auto (H/C) - water temperature sensor required		-	-	✓	✓
4-pipe					
manual (H/C)		✓	✓	✓	✓
auto (H/C)		✓	✓	✓	✓
DIMENSIONS					
for wall mounting		-	✓	✓	✓
for recessed-mounting		✓	optional	optional	optional
					
POSITION					
LCD display with backlight		-	✓	✓	✓
LCD touch screen with backlight		✓	-	-	-
protection category IP20		-	✓	-	-
protection category IP30		✓	-	✓	✓
Integrated CO2-sensor		-	-	-	✓
humidity sensor		-	-	-	✓
FEATURES					
programmable time zones		✓	✓	✓	✓
control via Wi-Fi (smartphone app)		✓	✓	-	-
fan start delay		-	-	✓	✓
continuous fan speed		-	-	✓	✓
temperature sensor 80 cm		✓	optional	optional	optional

CLIMA CANAL 19

MAXIMUM CABLE LENGTH

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

TOTAL OUTPUT (W)	MAX. CABLE LENGTH (M)									
	5	10	15	20	25	30	40	50	75	100
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

SAMPLE WIRE DIAGRAMS ELECTRICAL INSTALLATION

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.

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: two-pipe system

Option 2: 4-pipe system

5. TEMPERATURE MONITORING

Option 1: with temperature monitoring

Option 2: without temperature monitoring

6. UNITS / ZONE

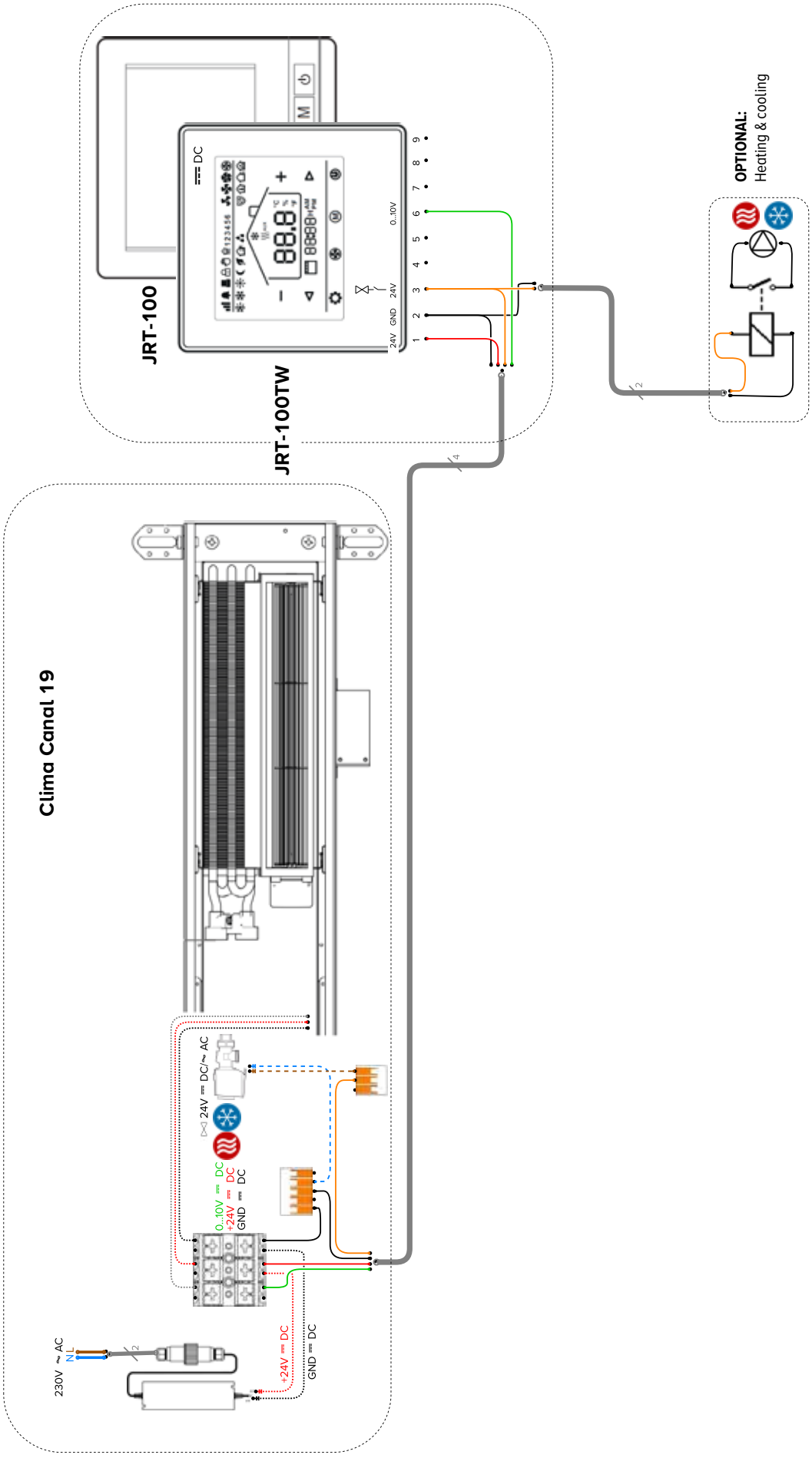
Option 1: one unit

Option 2: multiple units

CLIMA CANAL 19

SAMPLE DIAGRAM 1

- component power
- thermostatic valve inside the unit
- JRT100 & JRT 100TW
- 2-pipe
- without temperature monitoring
- 1 unit per area



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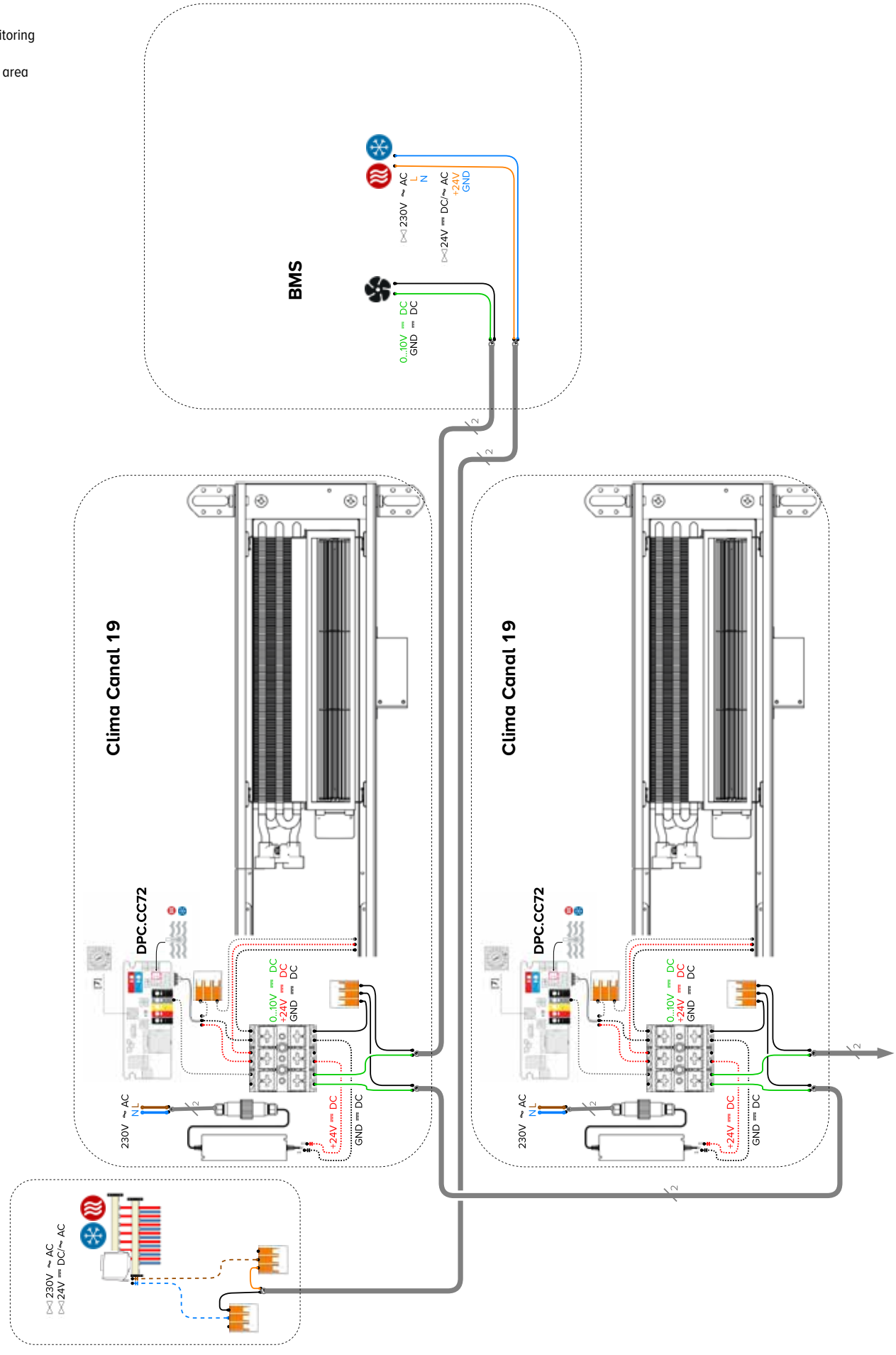
SAMPLE DIAGRAM 2

- component power
- thermostatic valve outside the unit
- BMS
- 2-pipe
- temperature monitoring
- JDPC
- multiple units per area



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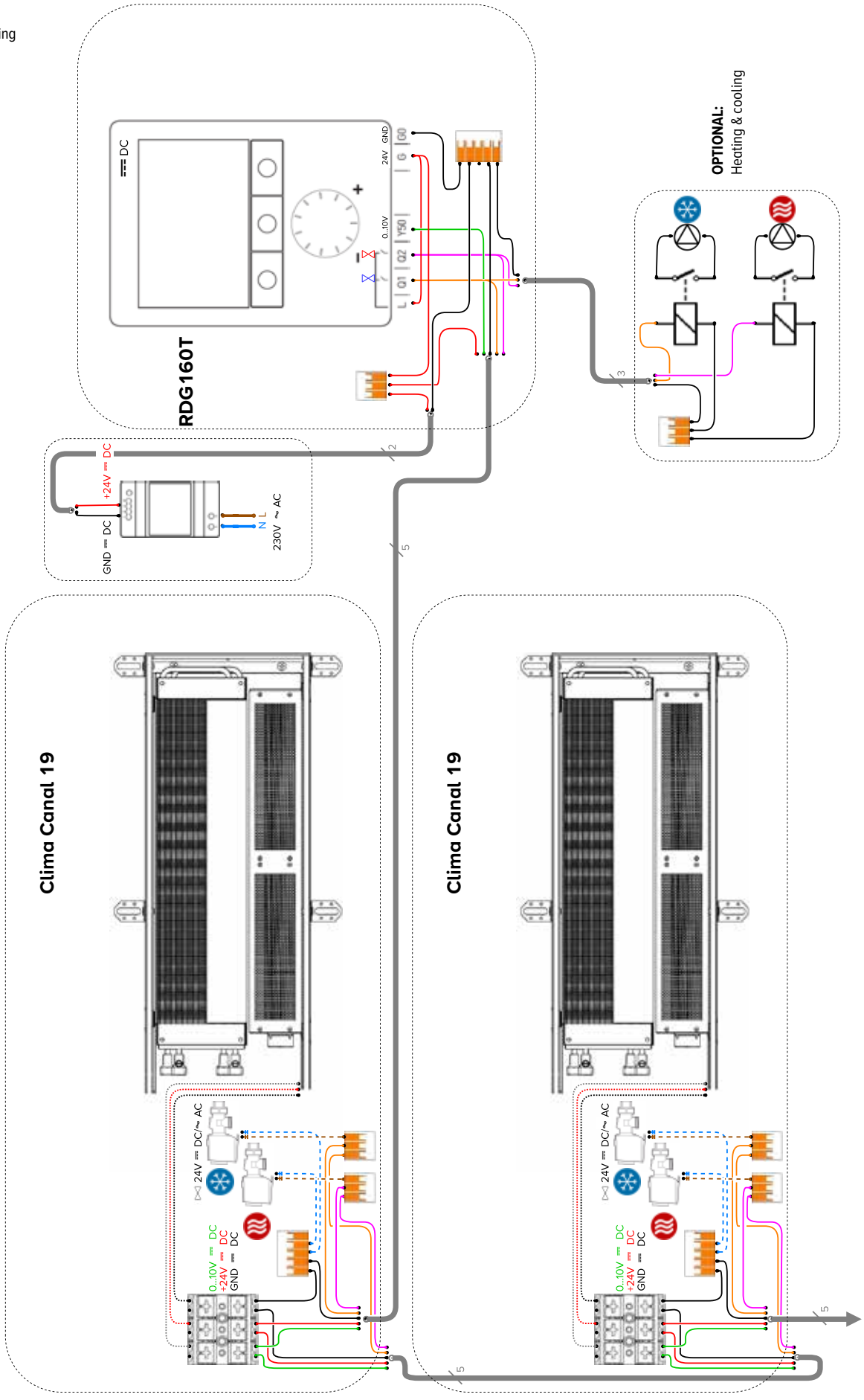
CLIMA CANAL 19

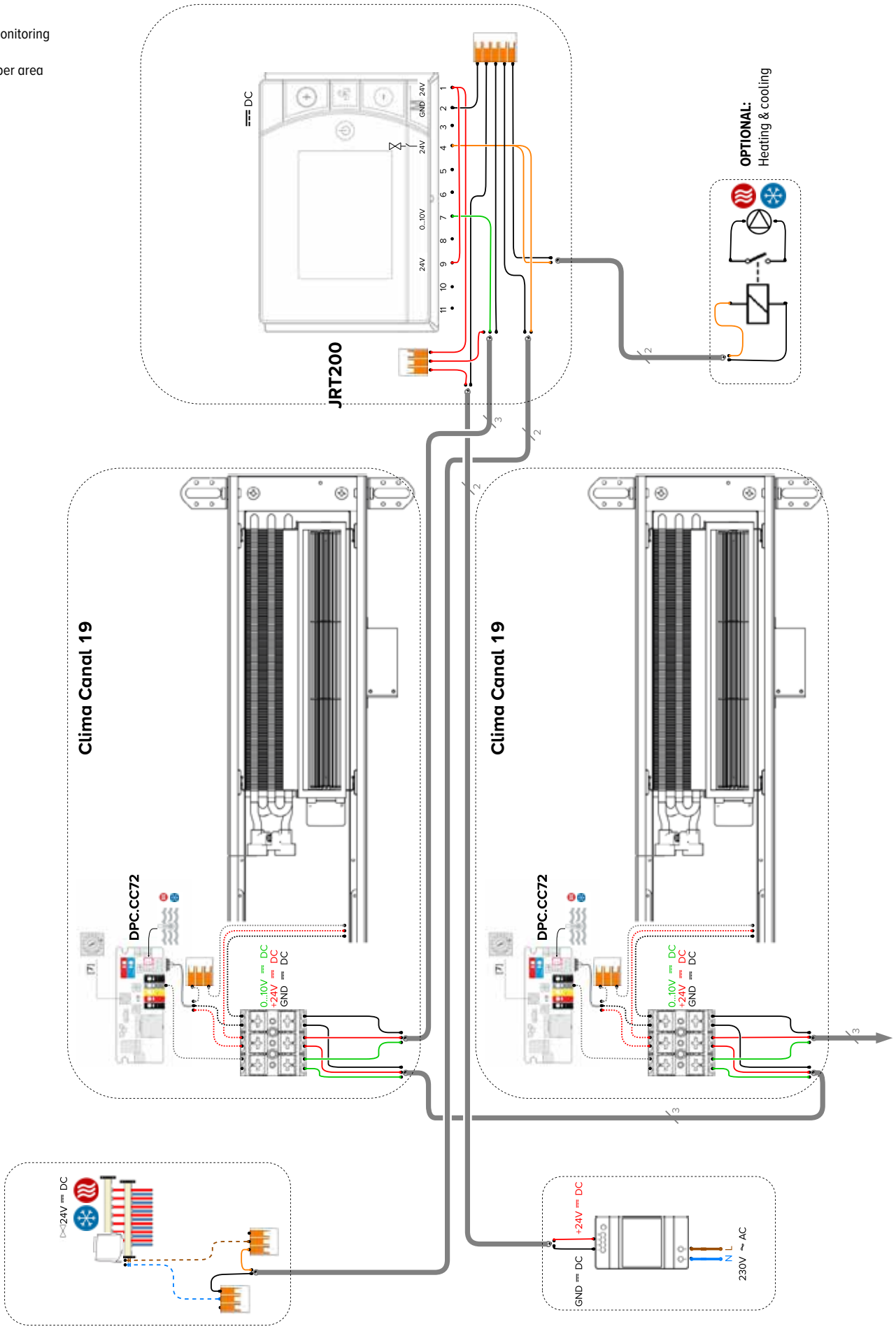
SAMPLE DIAGRAM 3

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



SAMPLE DIAGRAM 4

- power supply DIN-rail assembly
- thermostatic valve outside the unit
- JRT200
- 2-pipe
- temperature monitoring
- JDPC
- multiple units per area



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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/* 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 / TA	65	60	55	50	45	40	35	30	25
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**

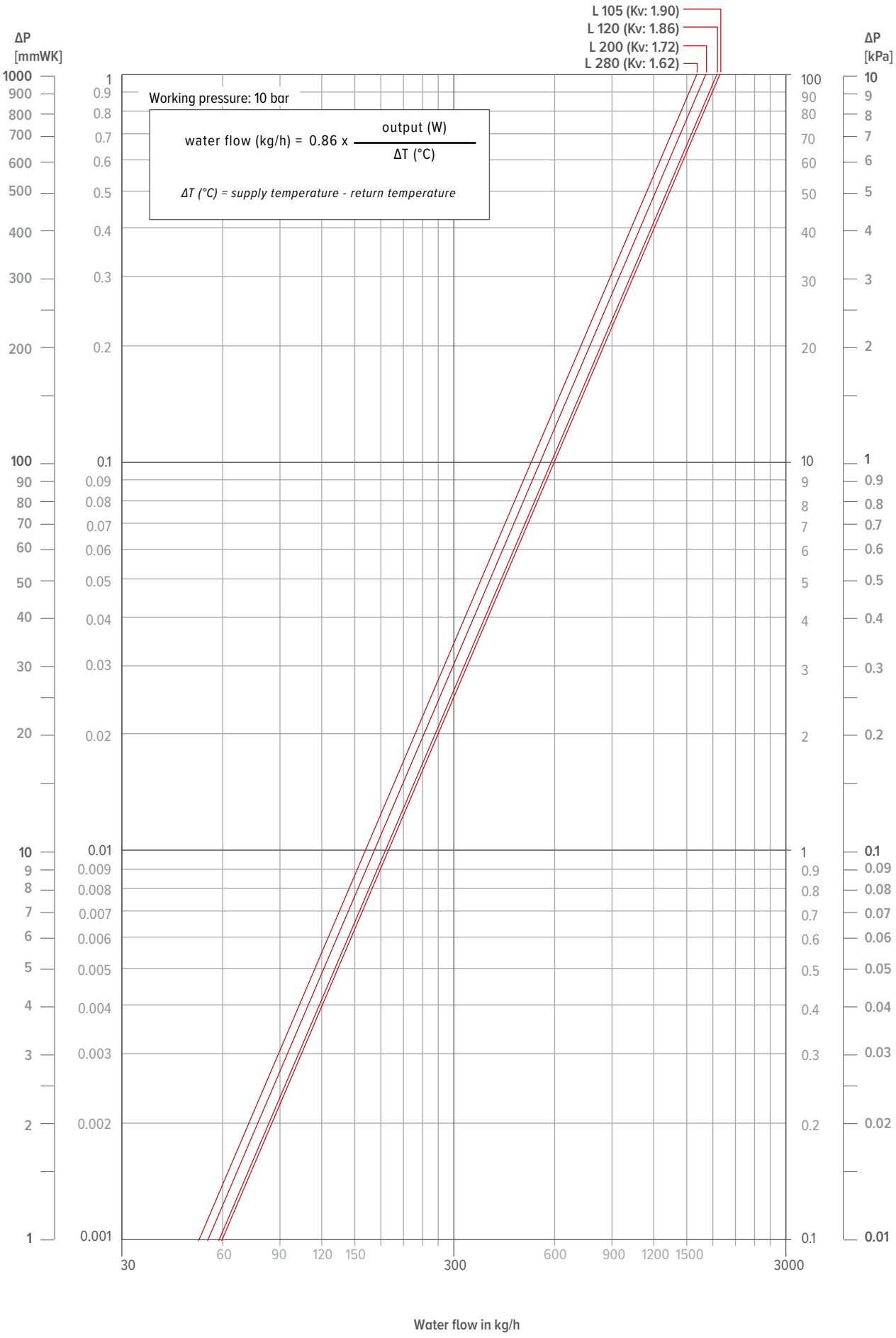
TR / TA	65	60	55	50	45	40	35	30	25
75	0.92	0.86	0.81	0.74	0.68	0.61	0.52	0.42	0.26
70	0.87	0.82	0.76	0.70	0.64	0.57	0.49	0.39	0.24
65		0.77	0.72	0.66	0.60	0.53	0.46	0.37	0.22
60			0.67	0.62	0.56	0.49	0.42	0.34	0.20
55				0.57	0.52	0.46	0.39	0.31	0.18
50					0.47	0.41	0.35	0.27	0.15
45						0.37	0.31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

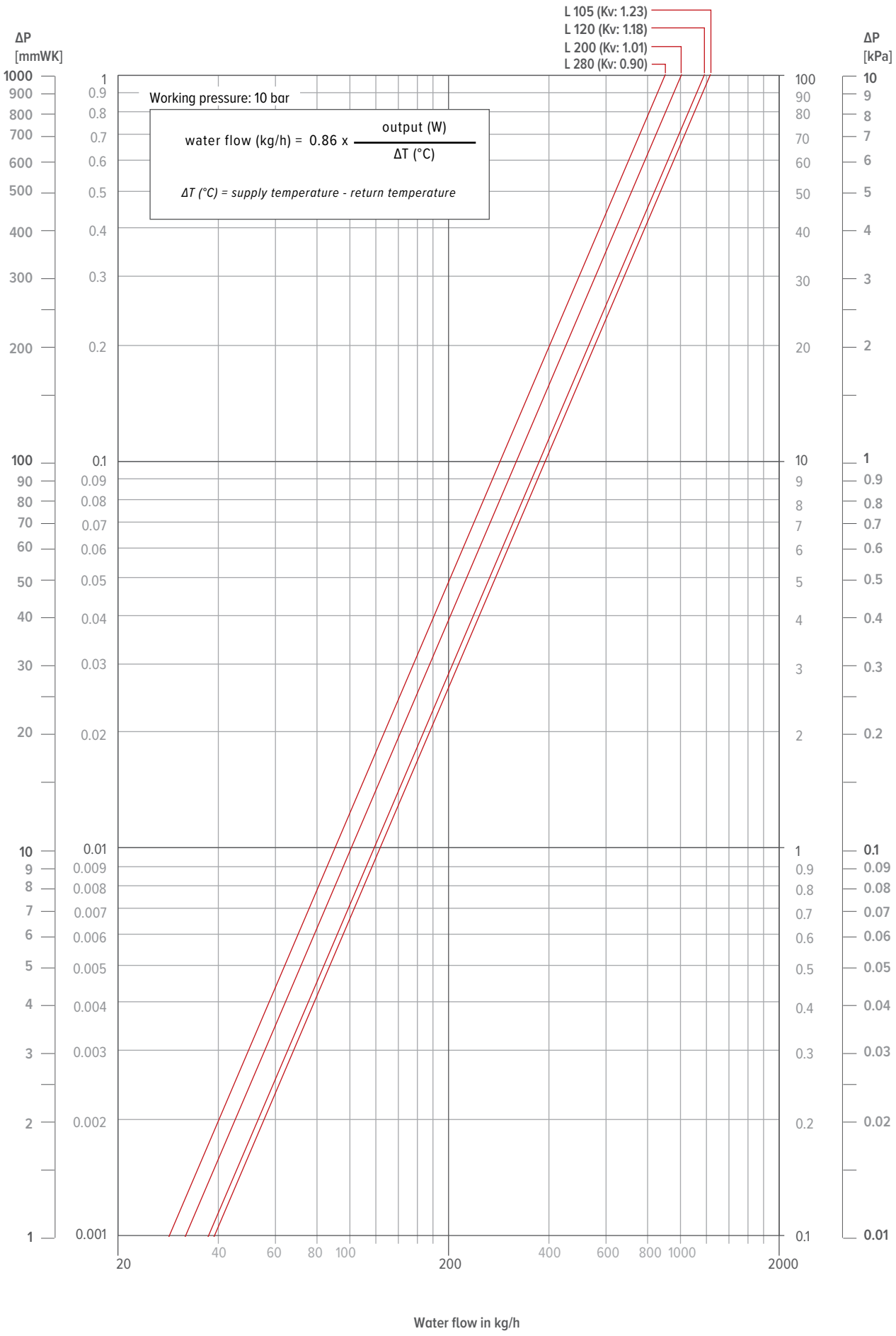
GUIDELINE FOR LIMITING FLOW NOISE

TUBE	outer Ø	Wall thick-ness	Max. water speed (EN10255)	water content per metre	max. water 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*	*Watts*	*Watts*	*Watts*	*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

CLIMA CANAL 19 2-PIPE

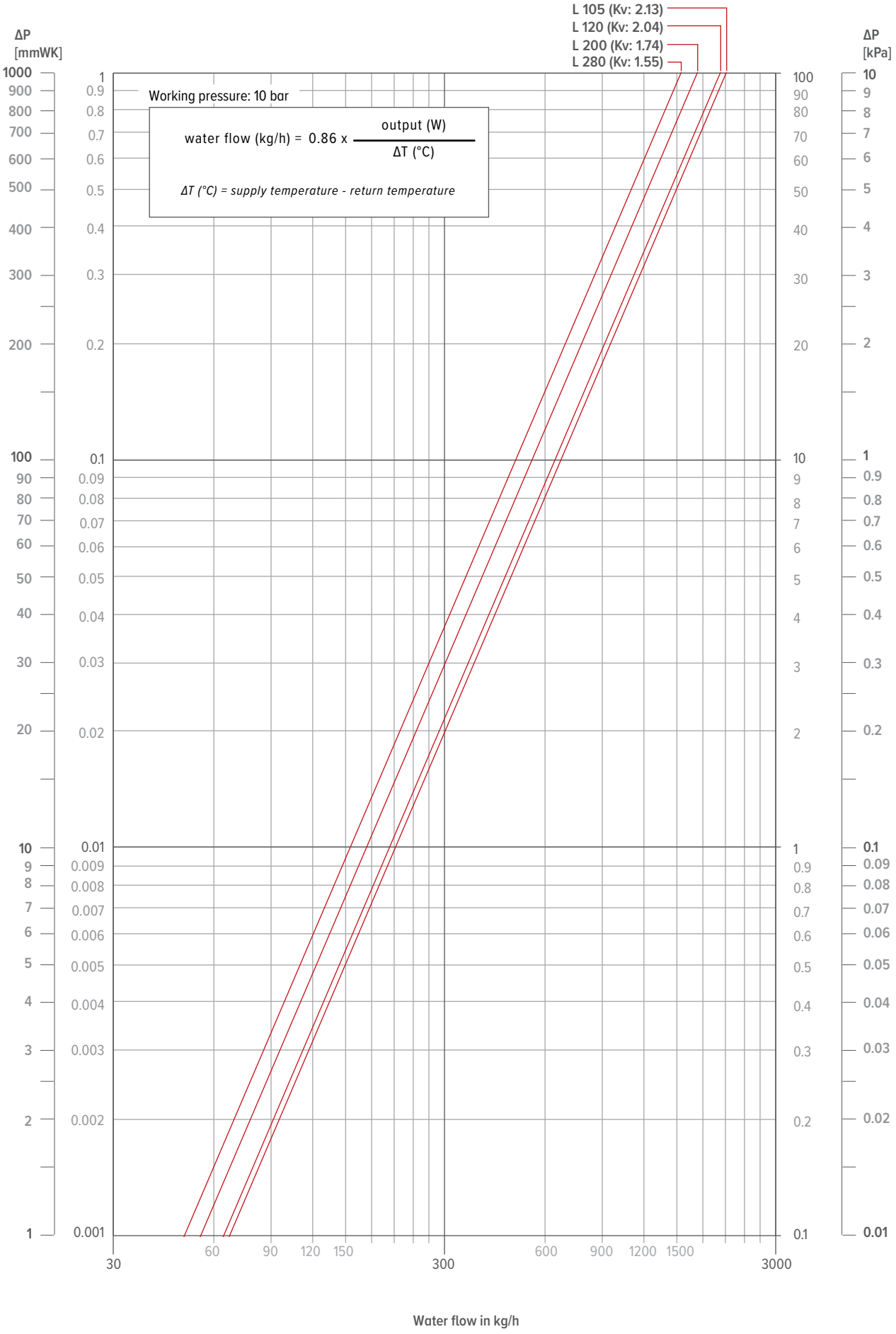
PRESSURE DROP




L 105 (Kv: 1.23)
L 120 (Kv: 1.18)
L 200 (Kv: 1.01)
L 280 (Kv: 0.90)
ΔP [mmWK]
ΔP [kPa]
Working pressure: 10 bar
water flow (kg/h) = 0.86 x output (W) / ΔT (°C)
ΔT (°C) = supply temperature - return temperature
Water flow in kg/h

CLIMA CANAL 19 4-PIPE HEATING

PRESSURE DROP



jaga CLIMATE DESIGNERS

JAGA INTERNATIONAL JAGA NV

In need of some advice? Make an appointment at the Jaga Advice Centre.

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11/06/2025 - JAGA N.V.