



CLIMA CANAL 10 PLUG & PLAY



CLIMA CANAL 10 PLUG & PLAY

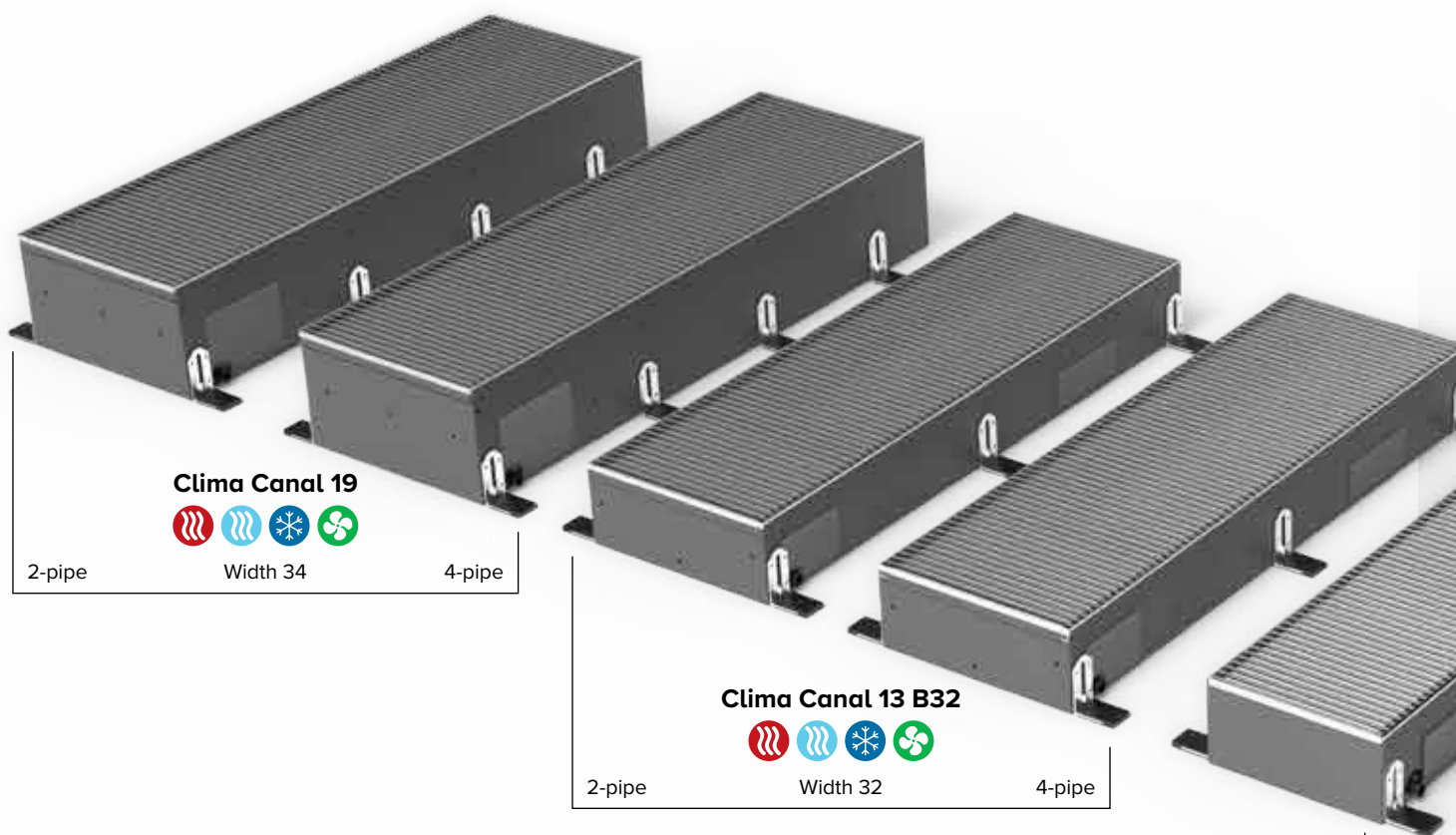
CONTENT	3
INTRODUCTION	4
OVERVIEW GRILLES	6
CLIMA CANAL 10 PLUG & PLAY	8
Composition	10
Coding	11
Standard delivery	11
Dimensions	12
Installation	12
Hydronic connection	13
Electrical connection	13
Technical table	14
Thermostats	16
Sample wire diagrams electrical installation	17
Correction factors	20
Guideline for limiting flow noise	21
Pressure drop	22

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

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



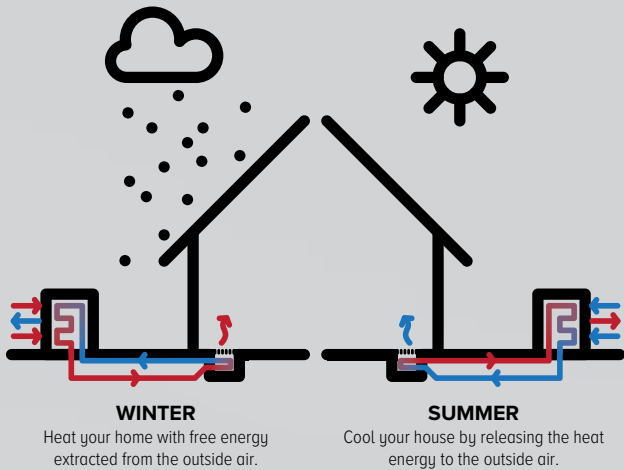
Width 27
4-pipe

HEATING AND COOLING WITH HEAT PUMP

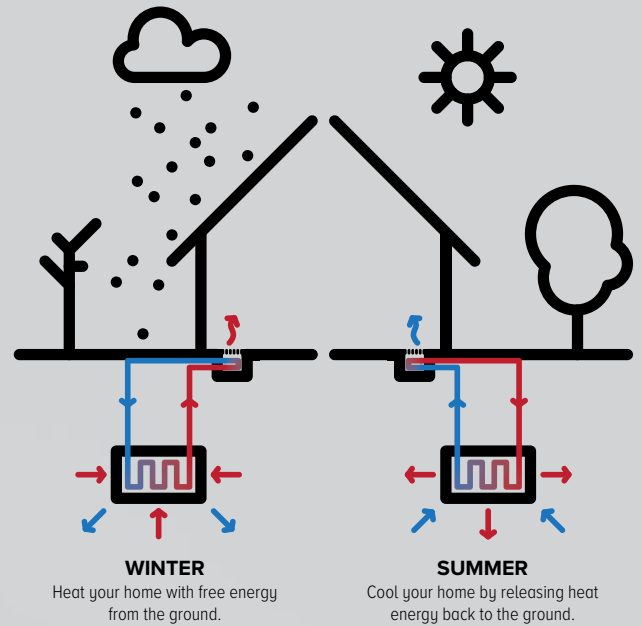
With its low water content and high thermal conductivity coefficient for low supply temperatures, the Clima Canal is the ideal match for your heat pump and it allows the units to react extremely efficiently to your heating or cooling demands, even at low supply temperatures.

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

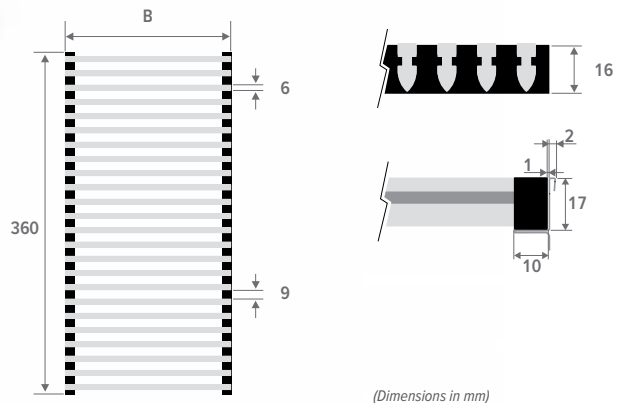


ALUMINIUM GRILLES

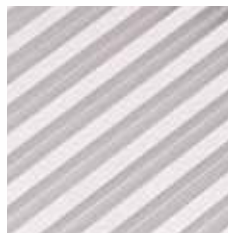
Aluminium panel grille with aerodynamically shaped transverse profiles in black vibration-free EPDM, grille supports EPDM rubber hardness 85.

PROPERTIES

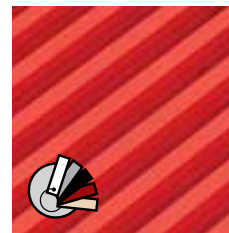
- provided as standard to enable continuous installation
- sound-insulating EPDM rubber supports
- developed for easy maintenance of the units / the aluminium profiles are low maintenance
- eco-friendly, scratch-resistant powder coating with high UV-resistance




ALUMINIUM NATURAL COLOUR ANODISED GRILLES



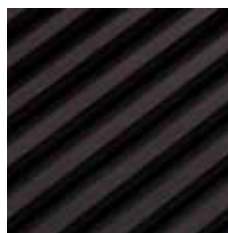
BNA Alu. natural



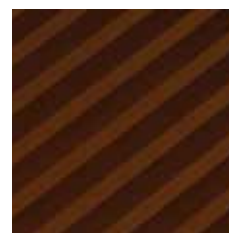
BNC/XXX Alu. coated

 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.

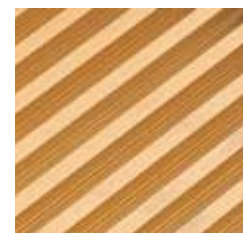
COLOURED ANODISED ALUMINIUM GRILLES



BAN/AN1 Black



BAN/AN2 Dark brown



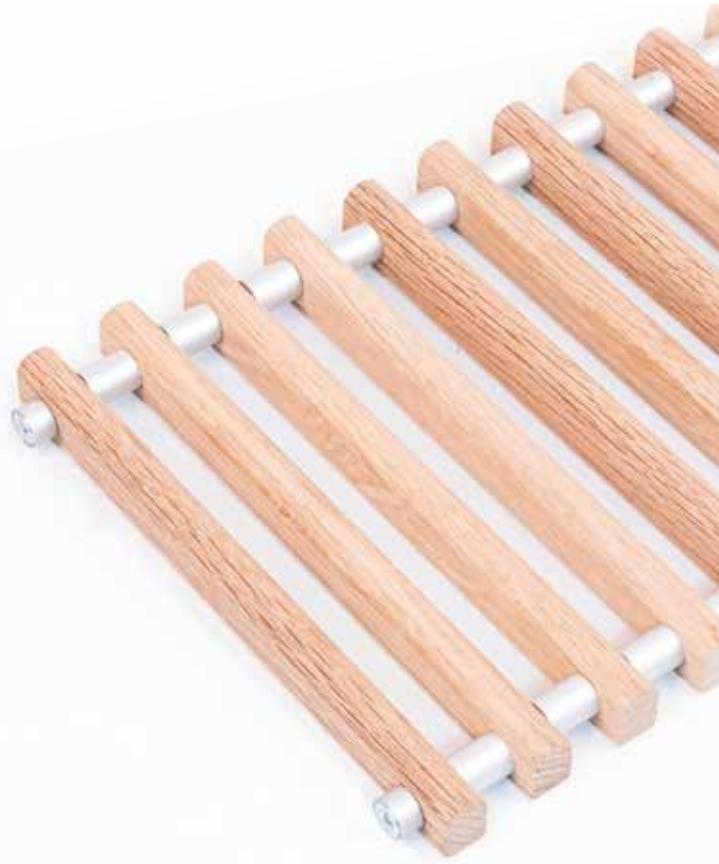
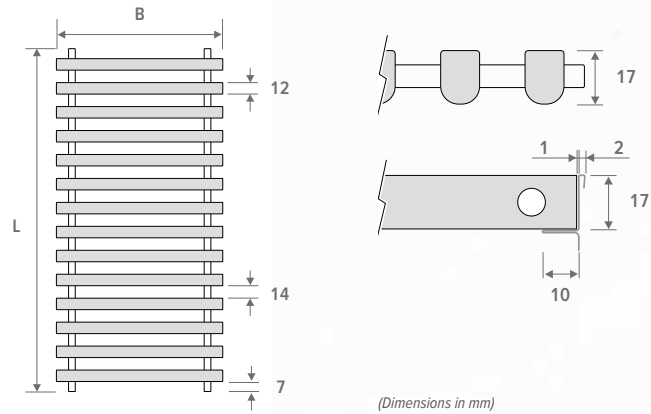
BAN/AN3 Brass-coloured

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

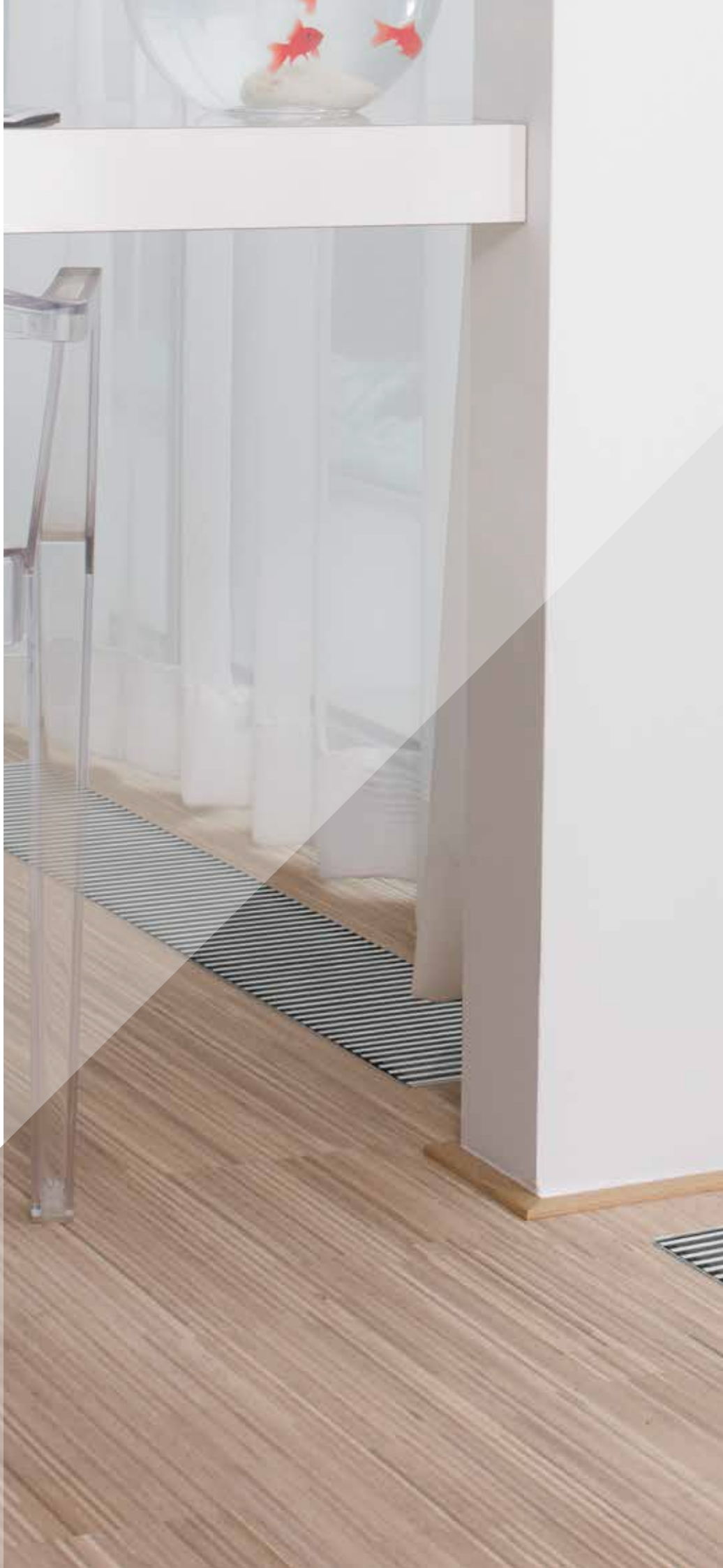


BOV Oak varnished **BBV** Beech varnished

jaga

CLIMATE
DESIGNERS

CLIMA CANAL 10 PLUG & PLAY





HEIGHT ADJUSTMENT SCREW

PROTECTION PANEL panel for mounting and site protection

DYNAMIC HEAT EXCHANGER

EC FANS

GRILLE



alu. natural grille

VALVES COVER PLATE

JAGA LOCKSHIELD VALVES 1/2" FEMALE THREAD

PRE-ASSEMBLED JAGA DYNAMIC PRODUCT CONTROLLER (JDPC) WITH FINGERTIP CONTROL PANEL

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

ELECTRICAL CONNECTION
always left-hand side

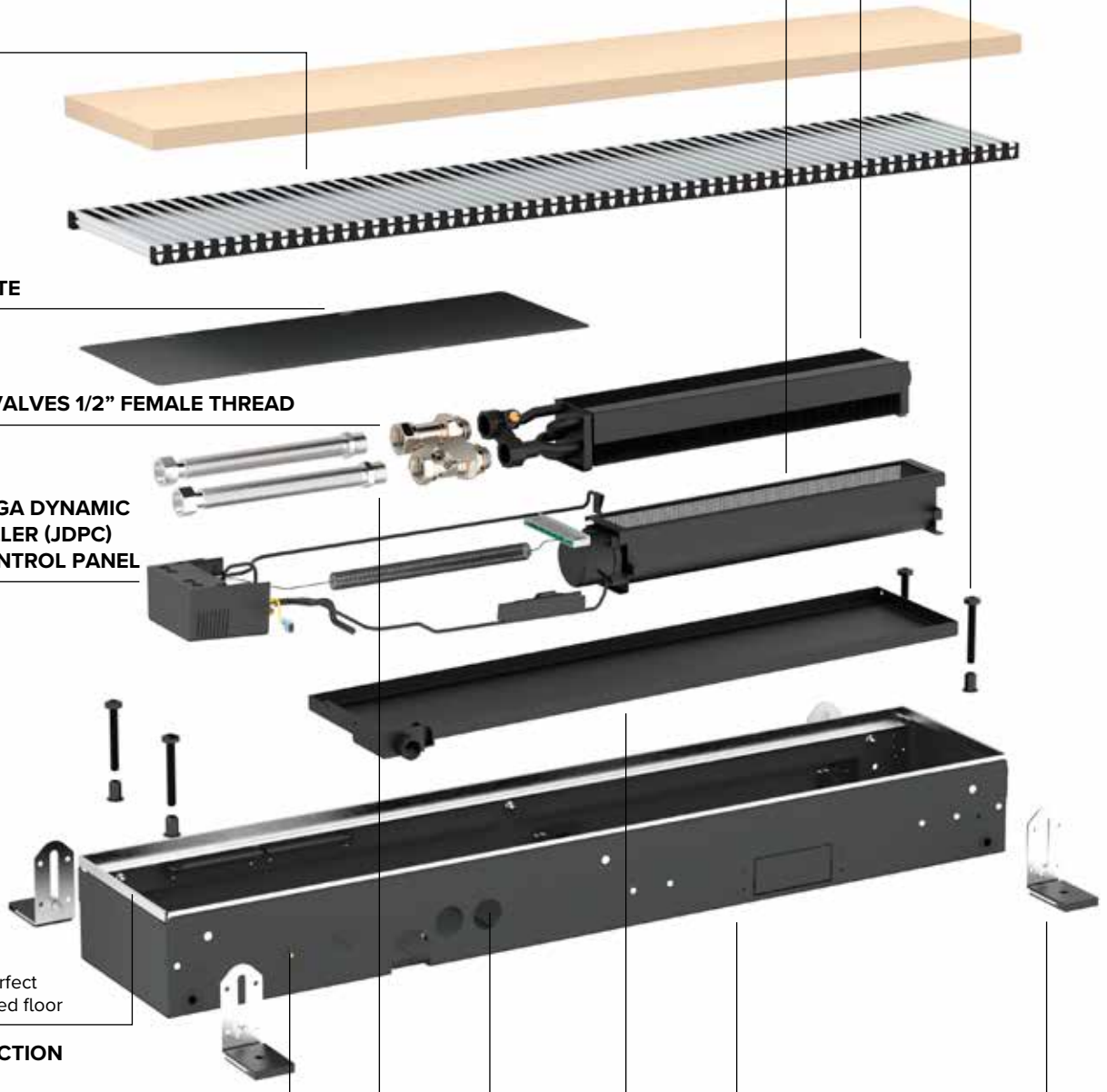
STAINLESS STEEL FLEXIBLE connections 1/2", 15 cm long
stainless steel flexible hoses allow the internal mechanism to be removed completely for easy cleaning

HYDRONIC CONNECTION always left-hand side

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

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

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



ORDER CODE CLIMA CANAL 10 PLUG & PLAY

CLCP 010 090 18 RRR F D05

Control:
 - Jaga 3 settings controller: D05
 Stainless steel flexible connections
 Grille
 Width
 Length
 Height

HEIGHT

010 cm

LENGTH

090 cm / 126 cm / 162 cm / 198 cm

WIDTH

18 cm

GRILLE



BNA

STAINLESS STEEL FLEXIBLE CONNECTIONS



CONTROL SYSTEMS

JDPC (Jaga Dynamic Product Controller)



Control panel

STANDARD DELIVERY:

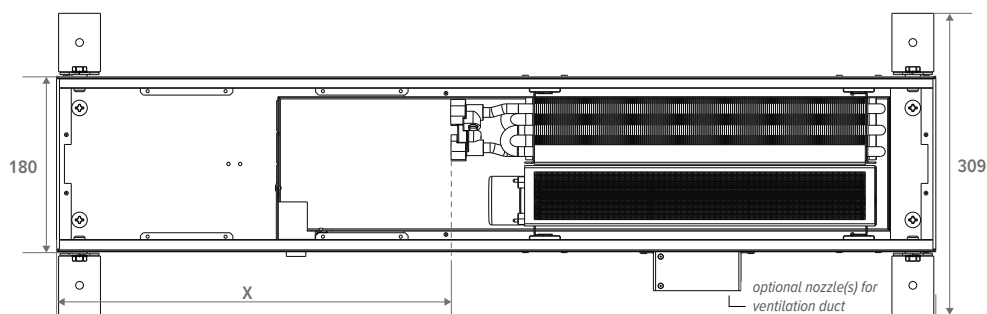
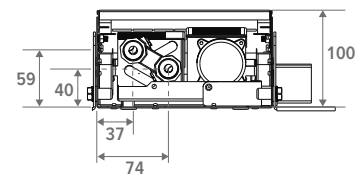
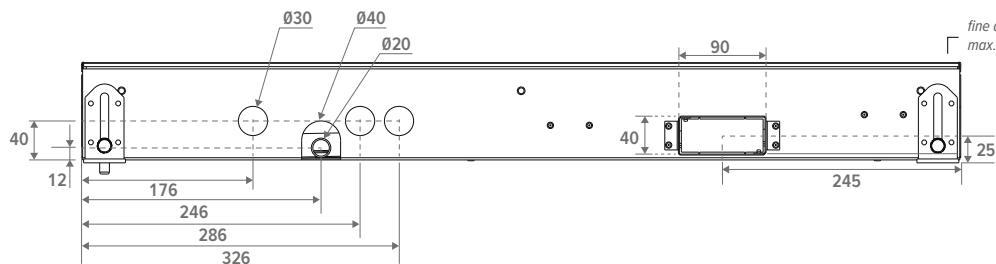
- casing in Sendzimir-galvanised steel sheet (RAL7024) with height adjustment and stainless steel grille support
- anodised aluminium grille
- dynamic heat exchanger
- thermal activator(s), (tangential mini activator) 24 VDC
- stainless steel flexible connections 1/2", 15 cm long
- integrated 24 VDC power supply and JDPC
- connection set with 2 lockshield valves
- height-adjustable base 0 < 4.5 cm
- pre-assembled Jaga Dynamic Product Controller (JDPC) with fingertip control panel (Jaga 3 settings controller)
- fine adjustment 0 > 0.8 cm
- cover plate



CLIMA CANAL 10 PLUG & PLAY

DIMENSIONS

DIMENSIONS (in mm)

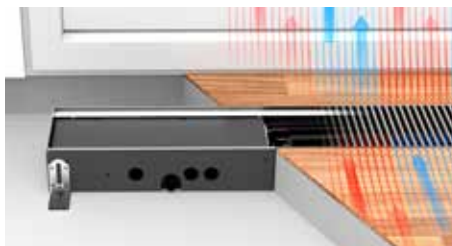


L mm	X mm
903	410
1263	410
1623	365
1983	330

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



Stainless steel flexible hoses allow the internal mechanism to be removed completely for easy cleaning

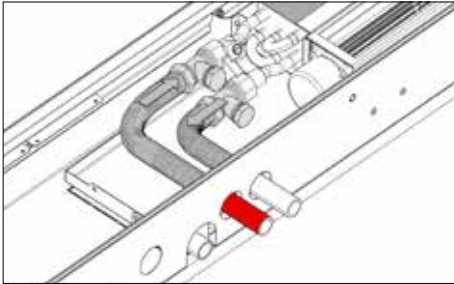


CLIMA CANAL 10 PLUG & PLAY

HYDRONIC CONNECTION

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



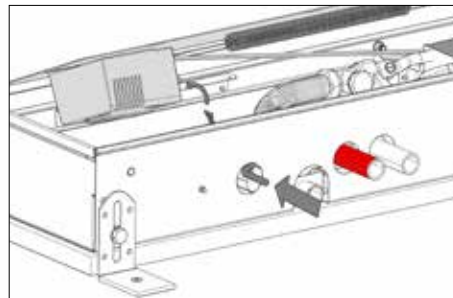
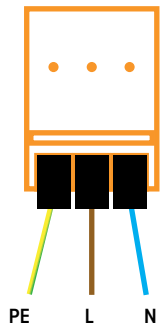
ELECTRICAL CONNECTION

ELECTRICAL CONNECTION

orange clamp connector for 230 VAC electrical connection to the left, to be connected via mains voltage

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 orange clamp connector located at the bottom side of the cover plate.






JDPC (JAGA DYNAMIC PRODUCT CONTROLLER)



Control panel

CODE	POSITION	CONTROL PANEL	EXTERNAL 0-10 V CONTROL	WATER TEMPERATURE SENSOR	AIR TEMPERATURE SENSOR
Jaga 3 settings controller (D05)	  	✓	-	✓	-

JAGA 3 SETTINGS CONTROLLER (D05)

- 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.
- 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.



	HEIGHT			CONTROL VOLTAGE	COOLING <i>(non-condensing) room temperature 27°C</i>			HEATING <i>room temperature 20°C</i>					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				
	cm	cm	cm	V	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts				
CLCP 010 090 18				2	30	59	42	68	124	152	165	276	14	24	0.5	CLCP 010 090 18 BNA F D05
				4	66	135	96	123	223	273	296	496	15	37	0.8	
				6	104	223	161	173	314	385	417	699	23	52	1.3	
				8	144	319	234	220	401	490	531	891	28	68	2.1	
				10	185	414	307	266	483	592	641	1075	34	79	3.0	
126 18				2	62	122	87	141	256	313	339	569	15	42	0.6	CLCP 010 126 18 BNA F D05
				4	135	275	197	253	459	562	609	1021	19	75	1.3	
				6	214	458	332	356	647	791	858	1438	29	98	2.7	
				8	296	655	480	454	825	1009	1094	1834	32	125	4.6	
				10	381	852	632	548	996	1218	1320	2214	37	160	7.1	
162 18				2	97	191	135	221	402	492	533	894	16	66	1.1	CLCP 010 162 18 BNA F D05
				4	212	432	309	397	722	883	957	1605	20	112	2.1	
				6	336	720	521	559	1016	1244	1348	2260	30	150	4.0	
				8	465	1029	754	713	1295	1585	1718	2881	35	193	6.6	
				10	598	1337	992	861	1564	1915	2075	3479	39	239	10.1	
198 18				2	132	261	184	302	548	671	727	1219	18	84	1.2	CLCP 010 198 18 BNA F D05
				4	290	591	423	541	984	1204	1305	2188	22	150	2.5	
				6	458	981	711	763	1386	1696	1838	3082	32	196	5.4	
				8	634	1403	1028	972	1767	2162	2343	3929	37	250	9.1	
				10	816	1825	1354	1174	2133	2611	2829	4744	41	320	14.1	

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.



CLIMA CANAL 10 PLUG & PLAY

THERMOSTATS

JRT-100 TB
BLACK



8751 050019

JRT-100 TW
WHITE



8751 050017

JRT-100



8751 050012

JRT-200



8751 050013

RDG 160T



8751 050009

RDG264KN



8751 050018

	JRT-100 TB / TW	JRT-100	JRT-200	RDG 160T	RDG264KN
POWER SUPPLY					
supply voltage	24V DC	24V DC	24V DC	24V DC	24V DC
OUTPUT / INPUT VOLTAGE					
valve 24V DC contact	2 (NO)	2 (NO)	-	-	-
potential-free contact	-	-	2 (NO)	3 (NO)	3 (NO)
input from keycard	-	-	✓	✓	✓
input from window contact	-	-	-	✓	✓
fan (0 - 10 V DC)	max. +/- 10 mA	max. +/- 10 mA	max. +/- 10 mA	max. +/- 5 mA	max. +/- 5 mA
manual 3-position speed controller	✓	✓	✓	✓	✓
automatic mode	✓	✓	✓	✓	✓
APPLICATIONS					
2-pipe					
manually (H/C)	✓	✓	✓	✓	✓
auto (H/C) - water temperature sensor necessary	-	-	-	✓	✓
4-pipe					
manually (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 10 PLUG & PLAY

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

5. TEMPERATURE MONITORING

Option 1: with temperature monitoring

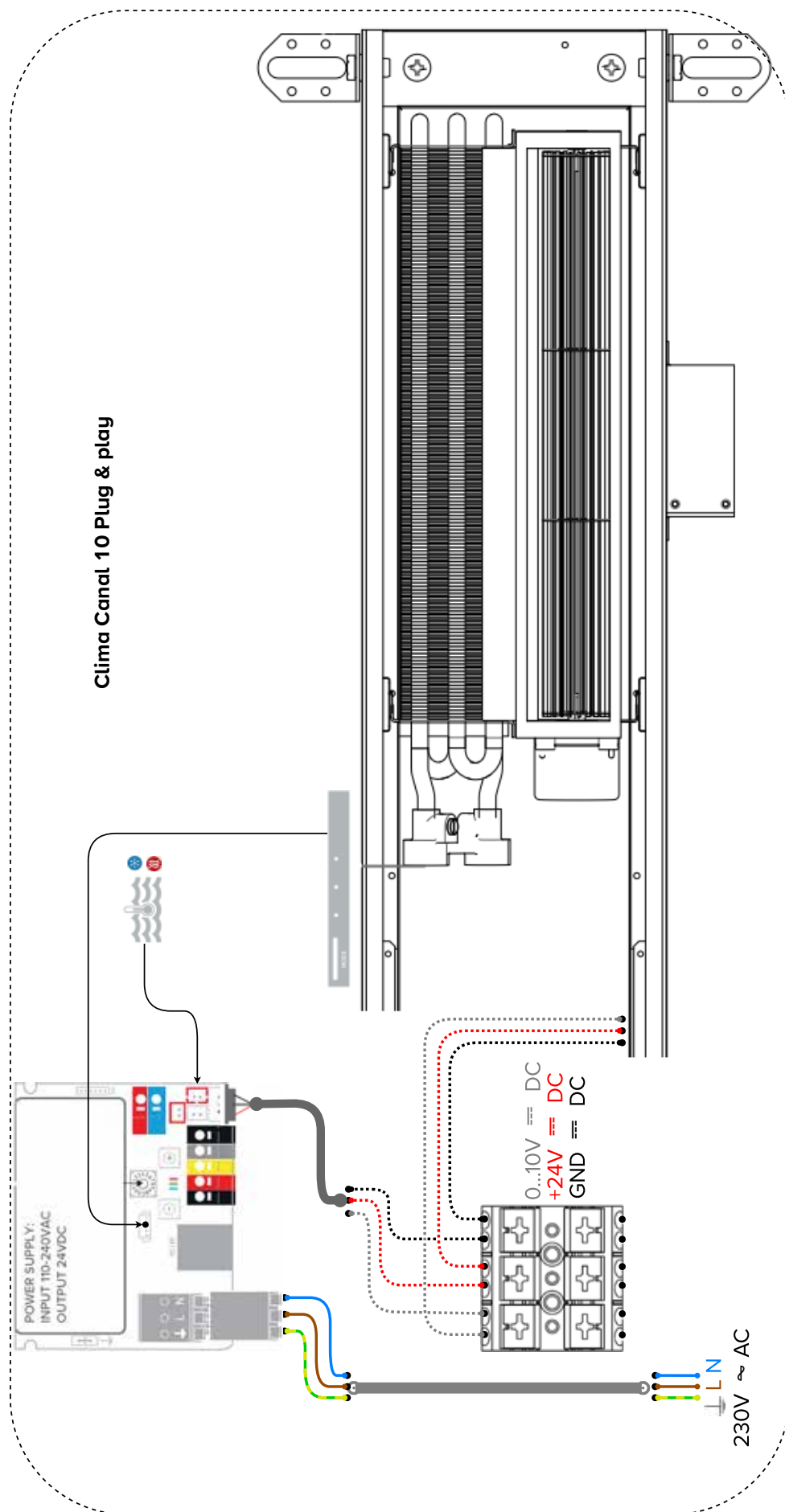
Option 2: without temperature monitoring

6. UNITS / ZONE

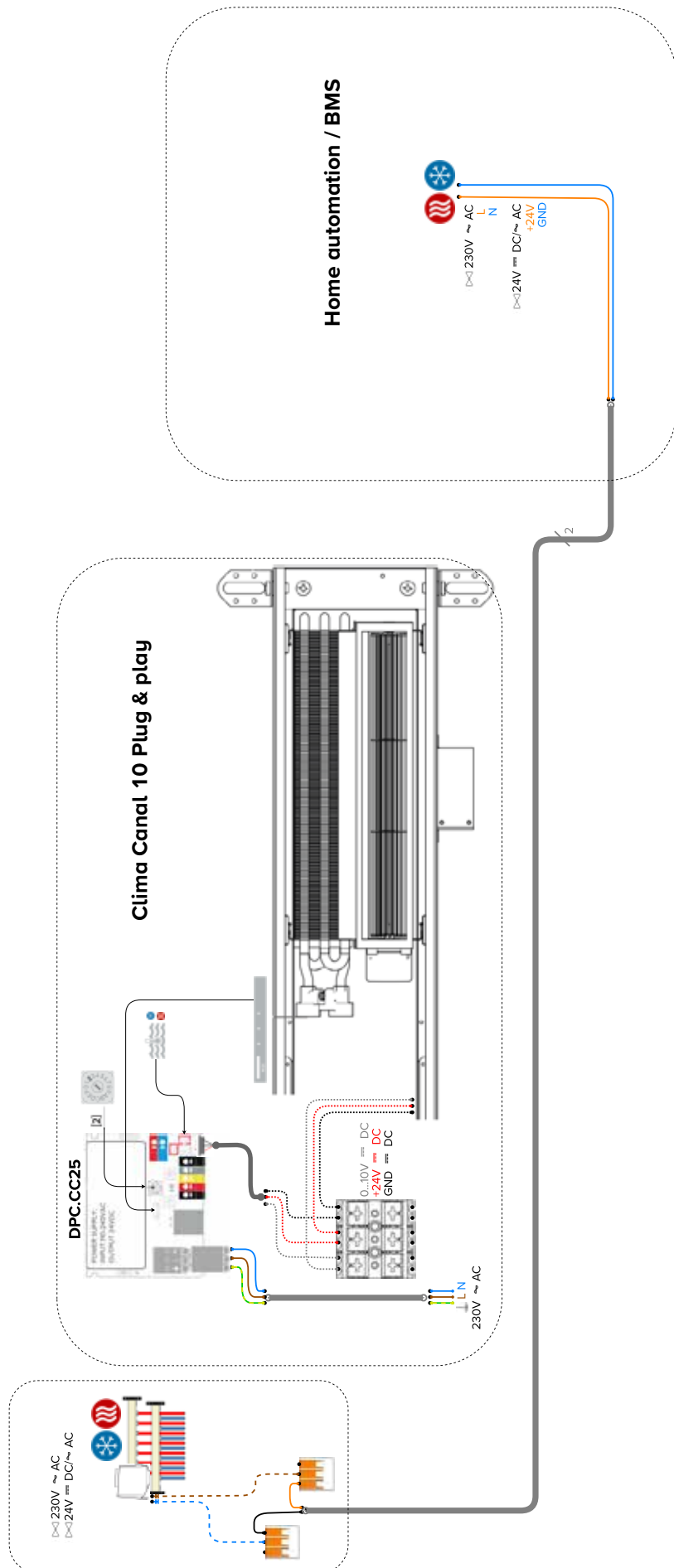
Option 1: one unit

Option 2: multiple units

- thermostatic valve outside the unit
- 2-pipe
- JDPC
- 1 unit per area



- power supply DIN-rail assembly
- thermostatic valve outside the unit
- JRT200
- 2-pipe
- temperature monitoring
- JDPC
- 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/ 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

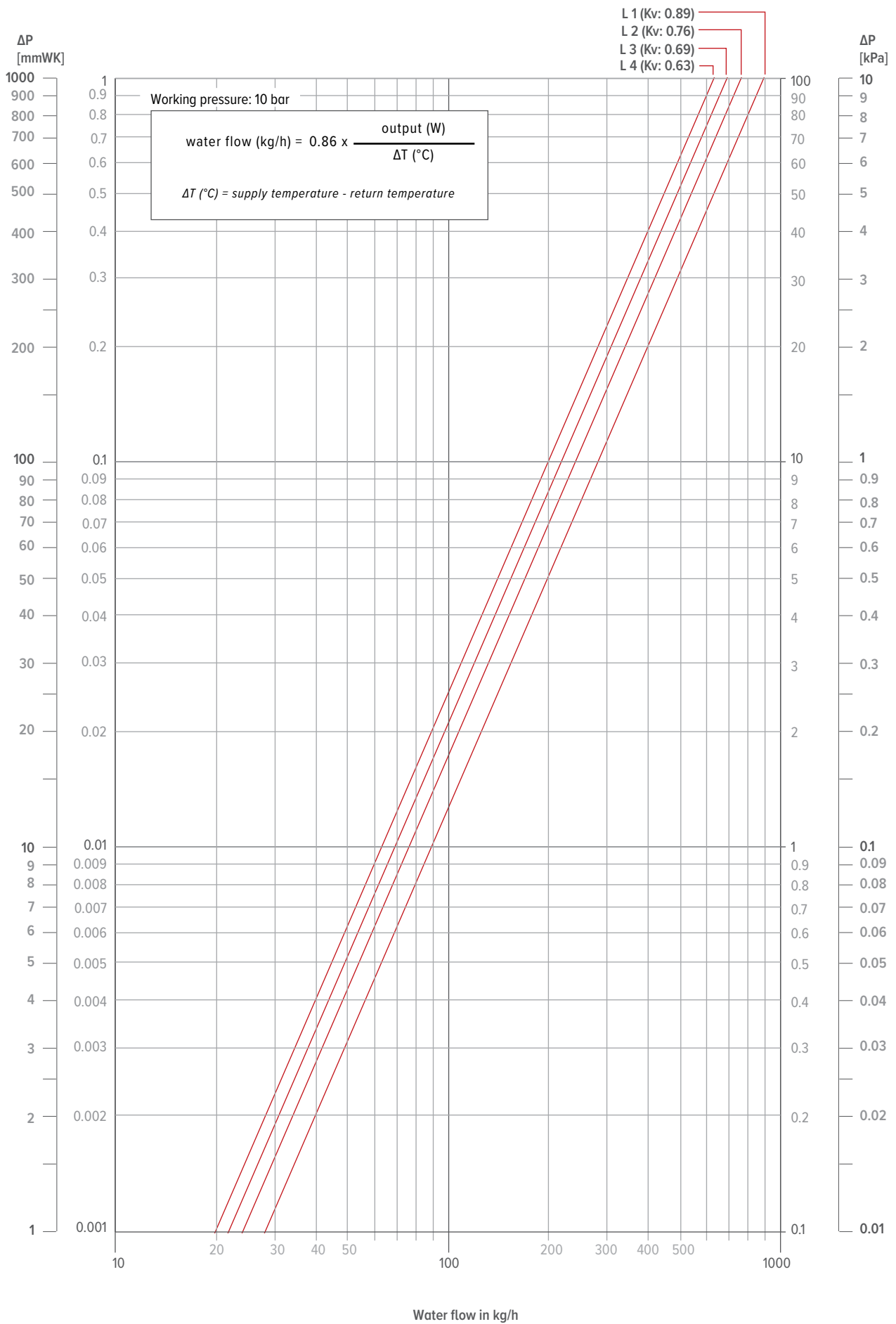
	TR	65	60	55	50	45	40	35	30	25
TA										
75		0.92	0.86	0.81	0.74	0.68	0.61	0.52	0.42	0.26
70		0.87	0.82	0.76	0.70	0.64	0.57	0.49	0.39	0.24
65			0.77	0.72	0.66	0.60	0.53	0.46	0.37	0.22
60				0.67	0.62	0.56	0.49	0.42	0.34	0.20
55					0.57	0.52	0.46	0.39	0.31	0.18
50						0.47	0.41	0.35	0.27	0.15
45	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

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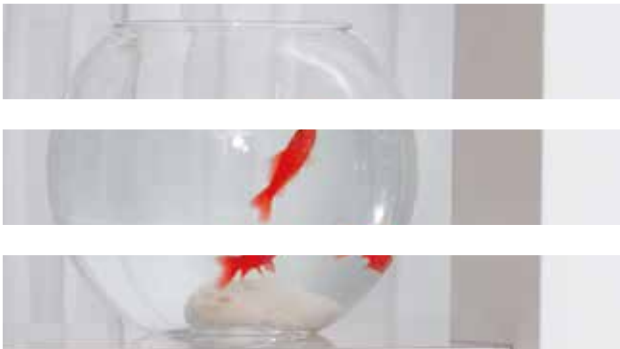
GUIDELINE FOR LIMITING FLOW NOISE

TUBE	outer Ø mm	Wall thick- ness mm	Max. water speed (EN10255) m/s	water content per metre l	max. water flow kg/h	Maximum power at ΔT (° C) (T supply - T return)						
						ΔT 30	ΔT 20	ΔT 10	ΔT 5	ΔT 4	ΔT 3	ΔT 2
						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









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

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