jaga

CLIMATE DESIGNERS

CLIMA CANAL 13 B32

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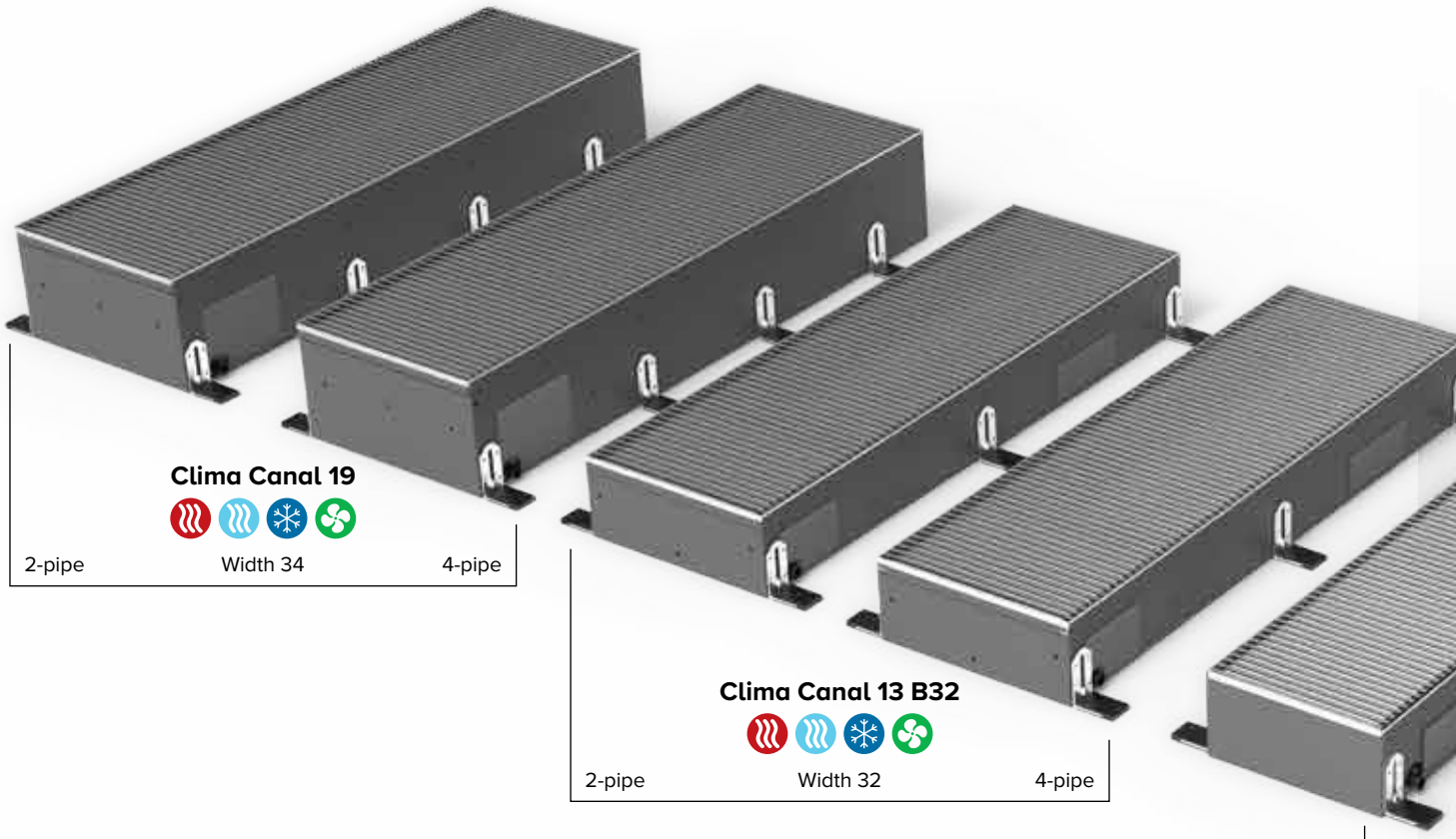
CLIMA CANAL 13 B32

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

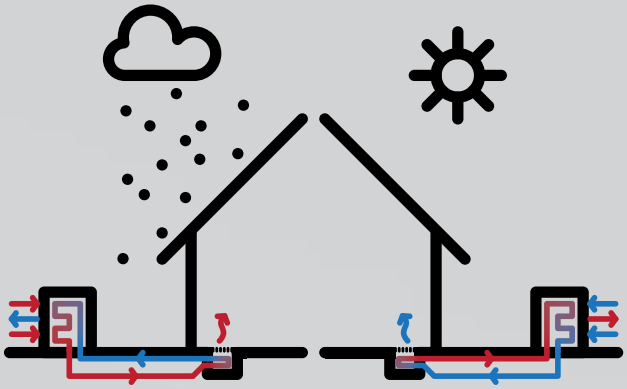
The use of high-quality materials, such as copper and aluminium for the heat exchanger and electro-galvanised steel for the duct, provides a perfect rustproof end product, with all its components carefully coated with a UV-resistant polyester paint of the highest quality. The specially selected EC motor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

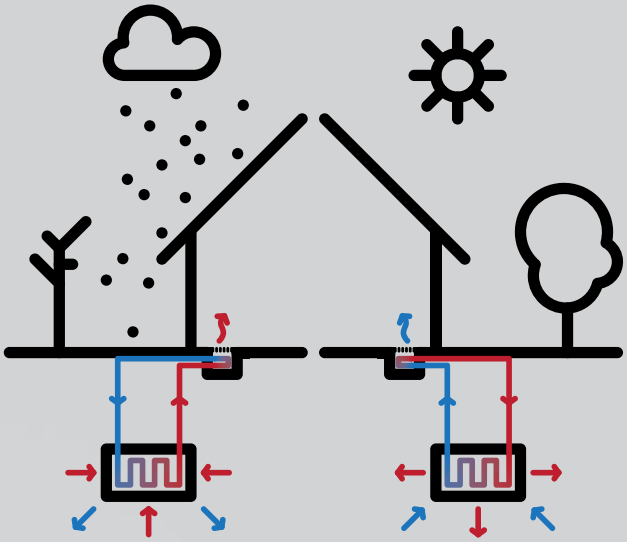
WITH AIR-TO-WATER HEAT PUMP



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

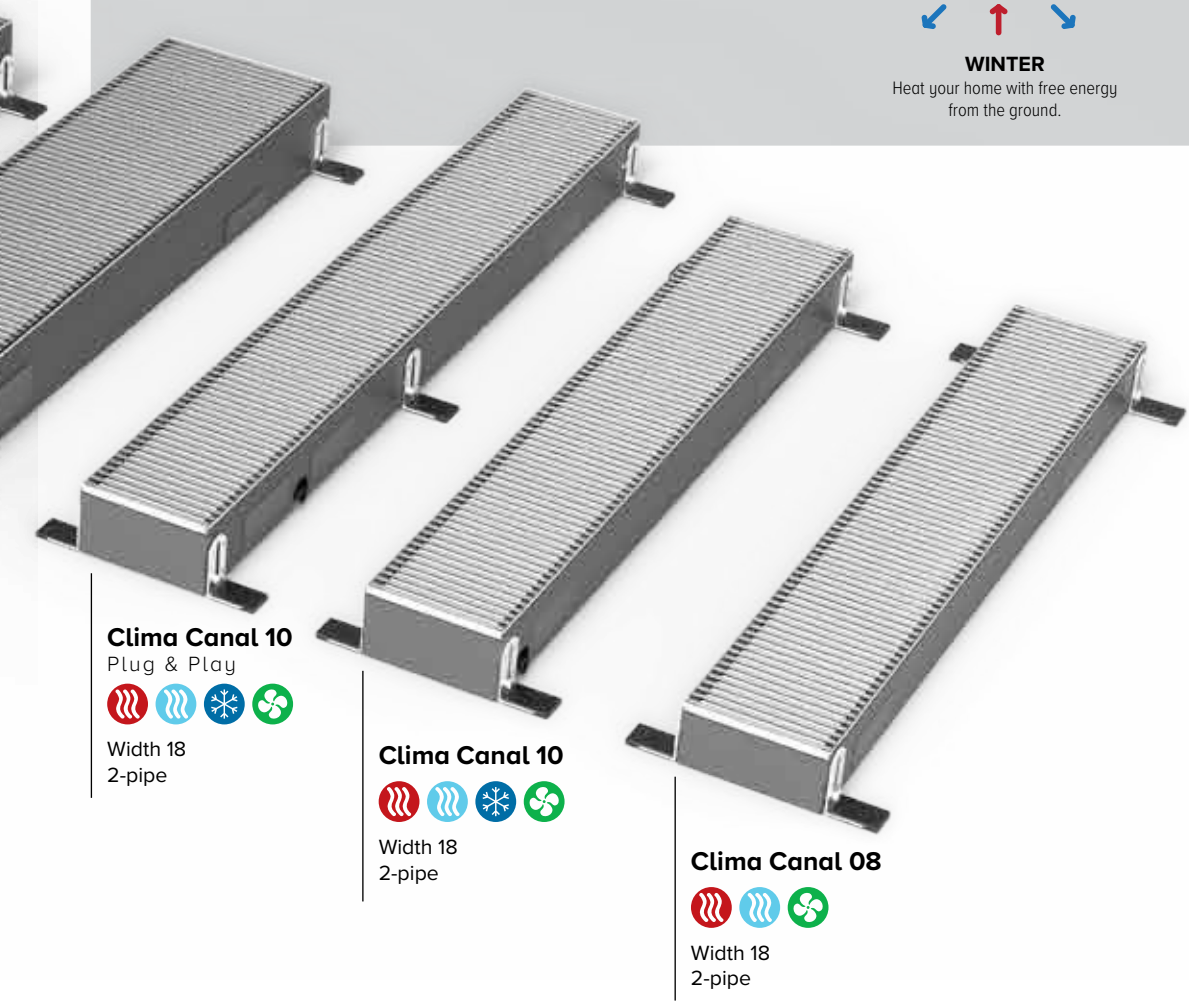
SUMMER
Cool your house by releasing the heat energy to the outside air.

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

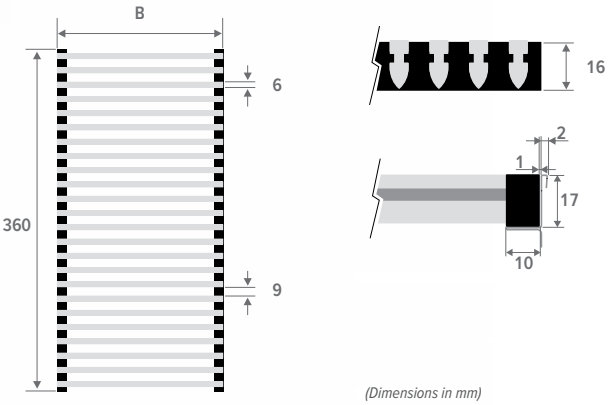
- Condensing cooling
- Non-condensing cooling
- Ventilation (option)
- Heating

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

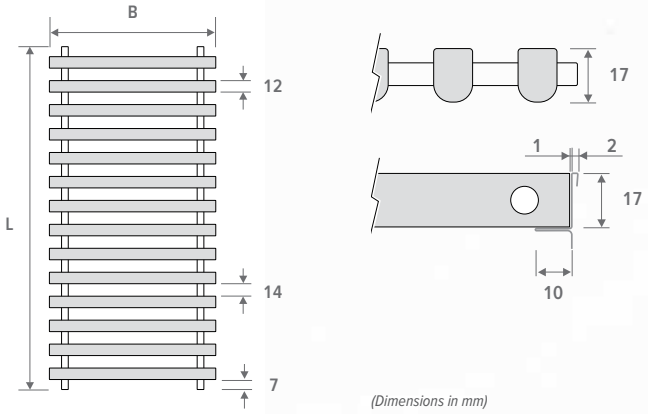
BAN/AN3 Brass-coloured

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 13 B32

PROTECTION PANEL panel for mounting and site protection

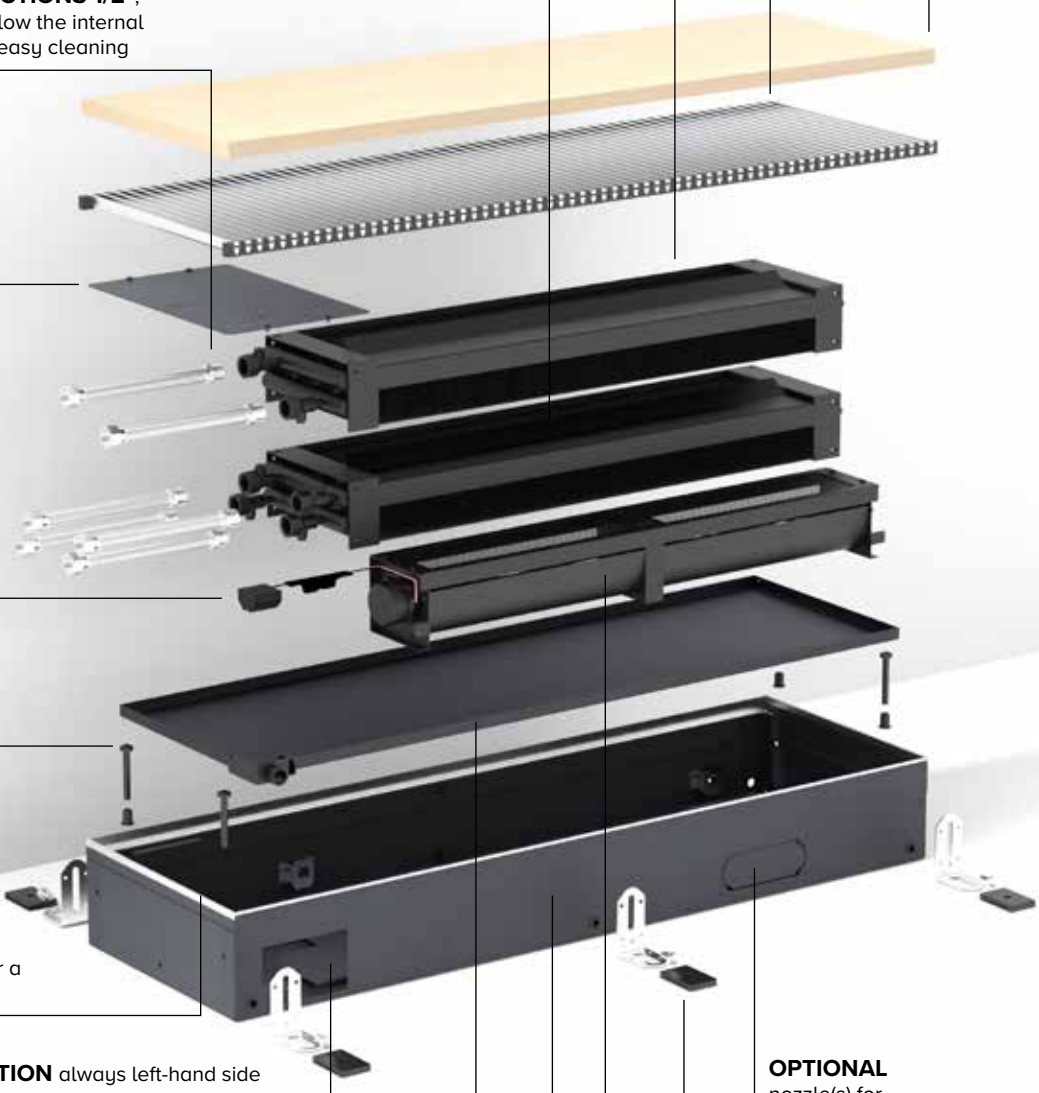
GRILLE aluminium and wooden grilles in a variety of colours and materials

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

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

CONDENSATE TRAY, FOR DRAINAGE (Ø 2 CM) OF CONDENSATE WATER

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

EC FANS

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

OPTIONAL nozzle(s) for ventilation duct

CLIMA CANAL 13 B32

ORDER CODE CLIMA CANAL 13 B32 2-PIPE

CCLF 013 070 32 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*
- 32 — *Width*
- 070 — *Length*
- 013 — *Height*

ORDER CODE CLIMA CANAL 13 B32 4-PIPE

QCLF 013 070 32 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*
- 32 — *Width*
- 070 — *Length*
- 013 — *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
- 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

2-PIPE: C

4-PIPE: Q

HEIGHT

13 cm

LENGTH

070 cm / 100 cm / 120 cm / 140 cm / 170 cm / 200 cm / 230 cm / 280 cm / 300 cm

WIDTH

32 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)

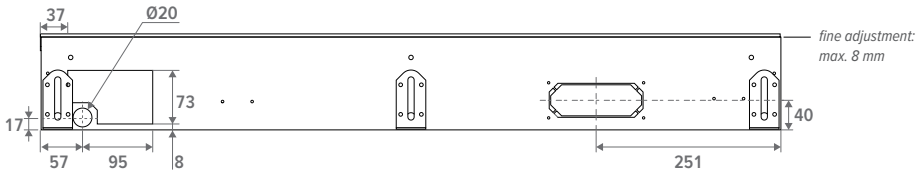
Control panel

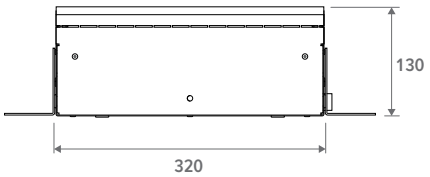
OPTIE

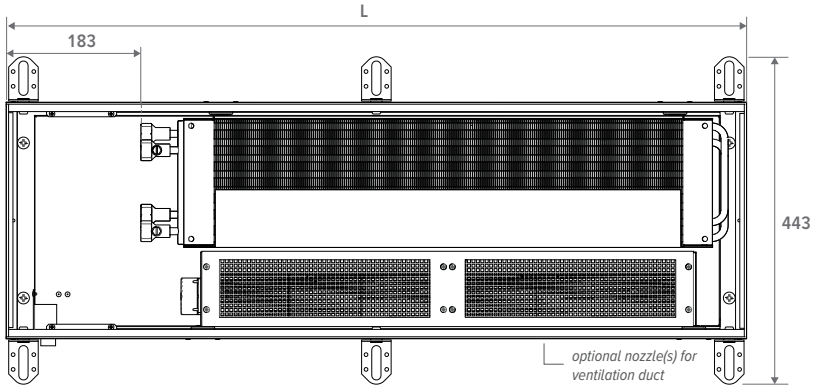
AIR OUTLET VENT

CLIMA CANAL 13 B32

DIMENSIONS *(in mm)*







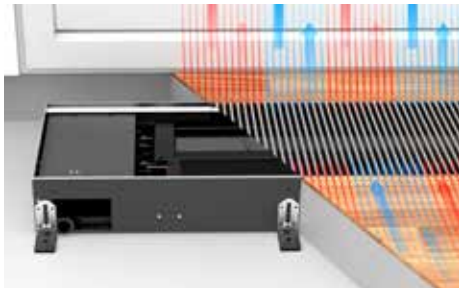
L *mm*
703
1003
1203
1403
1703
2003
2303
2803
3003

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

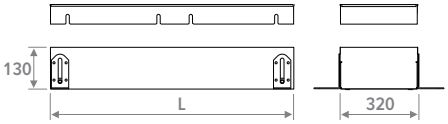
Operating principle



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 13 > 17 cm
- height control with fine adjustment to align with the finished floor
- protection panel

CODE	L *cm*
CLCD 013 070 32 XXX	070
CLCD 013 100 32 XXX	100
CLCD 013 120 32 XXX	120
CLCD 013 140 32 XXX	140
CLCD 013 170 32 XXX	170
CLCD 013 200 32 XXX	200
CLCD 013 230 32 XXX	230
CLCD 013 280 32 XXX	280
CLCD 013 300 32 XXX	300

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	
CCLD 013 038 32 BNA	Alu. natural
CCLD 013 038 32 BNC XXX	Alu. coated

enter colour code

NOZZLE FOR VENTILATION DUCT

Metal connection adapter

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

CODE	
CLCD 013 LLL 32 XXX F DDD **V1**	4 x 9 cm

enter control system code
fill in grille code
fill out length

Synthetic connection adapter

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

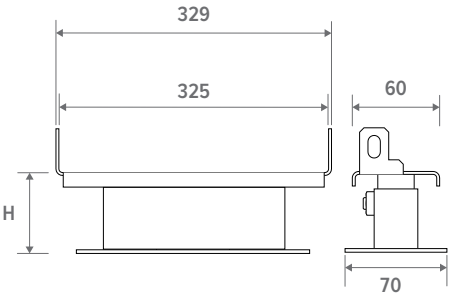
CODE	
CLCD 013 LLL 32 XXX F DDD **V5**	Pre-perforated opening
CLCD 013 LLL 32 XXX F DDD **V6**	Pre-mountend

enter control system code
fill in grille code
fill out length

Max. number of connection adapters per length

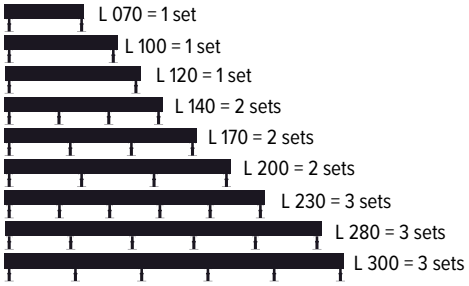
LENGTH	
070	1 connection adapter
100	2 connection adapters
120	2 connection adapters
140	3 connection adapters
170	3 connection adapters
200	4 connection adapters
230	4 connection adapters
280	5 connection adapters
300	6 connection adapters

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*
5213 0507 0000	5 / 7
5213 0813 0000	8 / 13
5213 1323 0000	13 / 23
5213 2030 0000	20 / 30

HYDRONIC CONNECTION

2-pipe

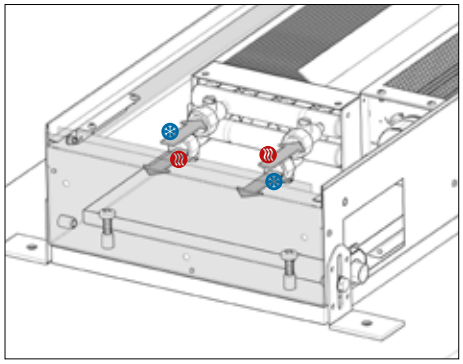
the two-pipe heat exchangers with single-sided connection are always connected to the leftside of a two-pipe installation

4-pipe

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

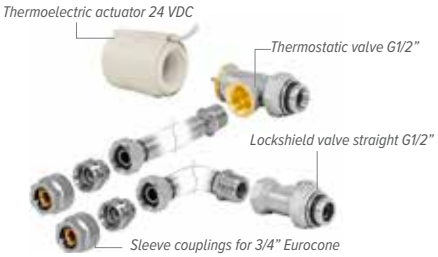
General

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" default setting in 6 steps

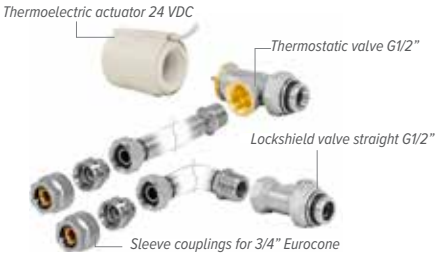


set 297 **KVS 0.8 - default setting in 6 steps**

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

fill in sleeve coupling code

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

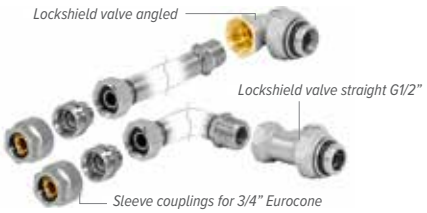


set 298 **KVS 1.0 - without default setting**

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

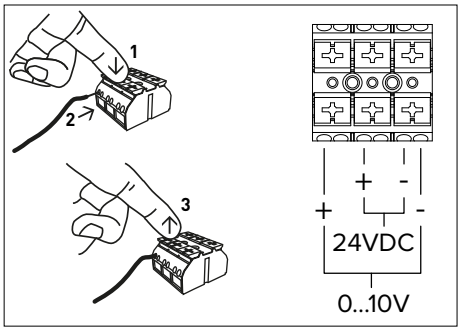
Sleeve couplings 3/4" Eurocone

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

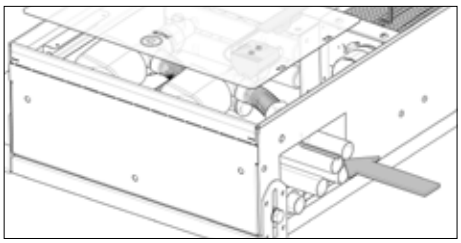
SYNTHETIC OR RPE/ALU	
CODE	*Tube Ø*
612	12/2
614	14/2
616	16/2
618	18/2
619	16/1.5
620	20/2

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 connected to the black block at the base of the protective cover.



POWER SUPPLIES

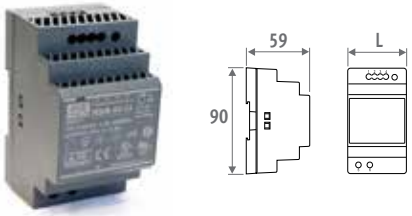
⚠ Jaga units are only CE: EN-60335 certified with use of the original Jaga power supplies

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 *Watts*	OUTPUT CURRENT *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 *mm*	OUTPUT *Watts*	OUTPUT CURRENT *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

MAXIMUM CABLE LENGTH

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

CABLE LENGTH (m)	*10*	*20*	*30*	*40*	*50*	*60*	*70*	*80*	*90*	*100*
Ø CABLE	NUMBER OF CLIMA CANAL 13 B32 L070									
1 mm²	9	4	3	2	1	1	1	1		
1.5 mm²	13	6	4	3	2	2	2	1	1	1
2.5 mm²	22	11	7	5	4	3	3	2	2	2
Ø CABLE	NUMBER OF CLIMA CANAL 13 B32 L100									
1 mm²	7	3	2	1	1	1	1	1		
1.5 mm²	11	5	3	2	2	1	1	1	1	1
2.5 mm²	19	9	6	4	3	3	2	2	2	1
Ø CABLE	NUMBER OF CLIMA CANAL 13 B32 L120									
1 mm²	6	3	1	1	1	1				
1.5 mm²	9	4	3	2	1	1	1	1	1	
2.5 mm²	15	7	5	3	3	2	2	1	1	1
Ø CABLE	NUMBER OF CLIMA CANAL 13 B32 L140									
1 mm²	6	3	1	1	1	1				
1.5 mm²	9	4	3	2	1	1	1	1	1	
2.5 mm²	15	7	5	3	3	2	2	1	1	1
Ø CABLE	NUMBER OF CLIMA CANAL 13 B32 L170									
1 mm²	4	2	1	1	1					
1.5 mm²	6	3	2	1	1	1				
2.5 mm²	10	5	3	2	2	1	1	1	1	1
Ø CABLE	NUMBER OF CLIMA CANAL 13 B32 L200									
1 mm²	3	1	1							
1.5 mm²	5	2	1	1	1					
2.5 mm²	9	4	3	2	1	1	1	1	1	
Ø CABLE	NUMBER OF CLIMA CANAL 13 B32 L230									
1 mm²	3	1	1							
1.5 mm²	5	2	1	1	1					
2.5 mm²	9	4	3	2	1	1	1	1	1	
Ø CABLE	NUMBER OF CLIMA CANAL 13 B32 L280									
1 mm²	2	1								
1.5 mm²	3	1	1							
2.5 mm²	6	3	2	1	1	1				
Ø CABLE	NUMBER OF CLIMA CANAL 13 B32 L300									
1 mm²	2	1								
1.5 mm²	3	1	1							
2.5 mm²	5	2	1	1	1					

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

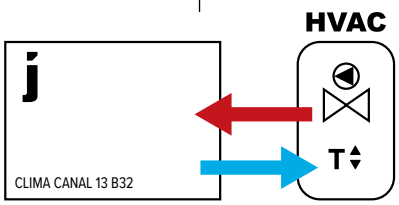
JAGA 3 SETTINGS CONTROLLER

- When heat or cold 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.

JAGA ON/OFF

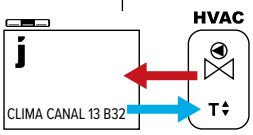
- When heat or cold are requested, a BMS/home automation system will open up the thermoelectric valve.
- Heating: The fan will rotate at a fixed speed once the water has reached the setting of 28°C.
- Cooling: he fan will rotate at a fixed speed once the water has reached the setting of 18°C.

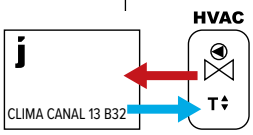
0-10V control signal for fan speed present in HVAC control?
Fans start when a 0-10V signal is sent to the fan. If a JDPC is added to the clima canal, the water temperature will be taken into account.

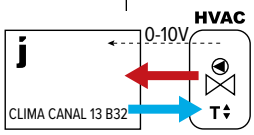


Without 0-10V signal:
- room thermostat (None-Jaga)
- area control with room temperature control
- boiler or heat pump control with room temperature control
- home automation with room temperature control
- other external room temperature controls

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 13 B32

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	
CCLF	013	070	32	2	67	147	104	77	141	172	187	313	16.0	35	1.0	CCLF 013 070 32 XXX F X DDD
				4	122	275	197	171	311	381	413	692	19.0	44	1.6	
				6	175	394	285	255	464	568	615	1031	27.0	85	3.2	
				8	224	492	361	329	599	733	794	1331	35.0	117	5.9	
				10	271	562	417	394	716	876	949	1592	38.0	137	8.8	
		100	32	2	128	278	197	147	267	326	354	313	20.0	44	1.0	CCLF 013 100 32 XXX F X DDD
				4	232	522	373	324	590	722	782	692	25.0	85	1.8	
				6	331	746	541	484	879	1076	1166	1031	29.0	133	3.2	
				8	425	932	684	624	1135	1389	1505	1331	36.0	168	6.4	
				10	515	1065	790	747	1357	1660	1799	1592	39.0	202	10.3	
		120	32	2	168	366	259	193	351	429	465	780	20.0	49	1.4	CCLF 013 120 32 XXX F X DDD
				4	305	686	491	427	775	949	1028	1724	26.0	114	2.4	
				6	435	981	711	636	1156	1415	1533	2570	30.0	174	4.2	
				8	559	1226	899	821	1492	1826	1979	3318	37.0	235	7.2	
				10	677	1401	1039	982	1784	2183	2366	3967	40.0	273	10.6	
		140	32	2	208	454	321	239	435	532	576	966	21.5	79	2.0	CCLF 013 140 32 XXX F X DDD
				4	378	850	609	529	961	1176	1275	2137	26.0	129	3.4	
				6	539	1216	881	788	1433	1753	1900	3186	31.0	218	6.4	
				8	693	1520	1114	1018	1849	2263	2453	4113	38.5	285	12.3	
				10	839	1736	1288	1217	2211	2706	2933	4917	41.5	339	19.1	
		170	32	2	268	585	414	308	560	686	743	1246	22.0	84	2.4	CCLF 013 170 32 XXX F X DDD
				4	487	1097	785	682	1240	1517	1644	2757	27.0	158	4.0	
				6	696	1569	1137	1017	1848	2262	2451	4110	32.0	259	7.4	
				8	894	1960	1437	1313	2385	2919	3164	5305	39.0	352	13.1	
				10	1082	2239	1661	1570	2852	3491	3783	6343	42.0	410	19.4	
		200	32	2	328	717	507	378	686	840	910	1527	23.0	93	2.4	CCLF 013 200 32 XXX F X DDD
				4	596	1343	962	835	1518	1858	2014	3376	28.5	199	4.2	
				6	852	1921	1392	1245	2263	2770	3002	5033	32.5	307	7.4	
				8	1095	2401	1760	1608	2921	3575	3875	6497	39.5	403	13.6	
				10	1325	2742	2034	1922	3493	4275	4633	7768	42.5	475	20.9	
		230	32	2	389	849	600	447	812	994	1077	1807	23.0	98	2.8	CCLF 013 230 32 XXX F X DDD
				4	706	1590	1138	989	1797	2199	2383	3996	29.0	228	4.8	
				6	1008	2274	1647	1474	2678	3278	3552	5957	33.0	348	8.4	
				8	1295	2841	2083	1903	3457	4231	4586	7689	40.0	470	14.4	
				10	1568	3246	2407	2275	4134	5059	5483	9193	43.0	546	21.2	
		280	32	2	489	1068	755	563	1022	1251	1356	2273	24.0	133	3.8	CCLF 013 280 32 XXX F X DDD
				4	888	2000	1432	1244	2261	2767	2999	5028	29.5	272	6.4	
				6	1269	2862	2073	1855	3370	4125	4470	7496	34.0	433	11.6	
				8	1630	3575	2621	2394	4351	5325	5771	9676	41.0	587	20.3	
				10	1973	4084	3029	2863	5202	6367	6900	11569	44.0	683	30	
		300	32	2	529	1156	817	609	1106	1354	1467	2460	25.0	142	4.8	CCLF 013 300 32 XXX F X DDD
				4	961	2165	1550	1346	2447	2994	3245	5441	31.0	313	8.0	
				6	1373	3097	2243	2007	3647	4464	4838	8111	35.0	481	14.8	
				8	1764	3869	2836	2591	4708	5762	6245	10471	42.0	638	26.2	
				10	2135	4420	3278	3098	5629	6890	7466	12519	45.0	748	38.8	

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.*

CCLF 013 300 32 XXX F X DDD

- 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

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CLIMA CANAL 13 B32

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)	m^3/h	Watts	
QCLF	013	070	32	2	65	141	100	66	121	148	160	268	16.0	35	1.0	QCLF 013 070 32 XXX F X DDD
				4	117	264	189	132	241	294	319	535	19.0	44	1.6	
				6	169	381	276	187	339	415	450	755	27.0	85	3.2	
				8	219	480	352	229	417	510	553	927	35.0	117	5.9	
				10	267	553	410	260	473	579	628	1053	38.0	137	8.8	
		100	32	2	122	267	189	126	229	280	303	509	20.0	44	1.0	QCLF 013 100 32 XXX F X DDD
				4	222	501	359	251	456	558	605	1014	25.0	85	1.8	
				6	320	721	523	354	643	787	853	1431	29.0	133	3.2	
				8	415	909	666	435	790	967	1048	1758	36.0	168	6.4	
				10	507	1049	778	494	897	1098	1190	1995	39.0	202	10.3	
		120	32	2	161	352	249	166	301	368	399	669	20.0	49	1.4	QCLF 013 120 32 XXX F X DDD
				4	293	659	472	330	600	734	796	1334	26.0	114	2.4	
				6	421	949	687	466	846	1035	1122	1881	30.0	174	4.2	
				8	545	1195	876	572	1039	1272	1378	2311	37.0	235	7.2	
				10	666	1379	1023	649	1180	1444	1565	2624	40.0	273	10.6	
		140	32	2	200	436	308	205	373	456	494	829	21.5	79	2.0	QCLF 013 140 32 XXX F X DDD
				4	363	817	585	409	743	910	986	1653	26.0	129	3.4	
				6	521	1176	852	577	1049	1283	1391	2332	31.0	218	6.4	
				8	676	1482	1086	709	1288	1577	1709	2865	38.5	285	12.3	
				10	826	1710	1268	805	1462	1790	1940	3252	41.5	339	19.1	
		170	32	2	258	562	398	265	481	588	638	1069	22.0	84	2.4	QCLF 013 170 32 XXX F X DDD
				4	468	1053	754	528	959	1174	1272	2133	27.0	158	4.0	
				6	672	1517	1099	744	1352	1655	1794	3008	32.0	259	7.4	
				8	872	1911	1401	914	1662	2034	2204	3695	39.0	352	13.1	
				10	1065	2205	1636	1038	1886	2309	2502	4195	42.0	410	19.4	
		200	32	2	315	688	487	324	589	721	781	1310	23.0	93	2.4	QCLF 013 200 32 XXX F X DDD
				4	573	1290	923	646	1174	1437	1558	2612	28.5	199	4.2	
				6	823	1857	1346	912	1656	2027	2197	3684	32.5	307	7.4	
				8	1067	2341	1716	1120	2035	2491	2699	4526	39.5	403	13.6	
				10	1305	2701	2003	1271	2310	2827	3064	5138	42.5	475	20.9	
		230	32	2	373	815	576	384	697	853	924	1550	23.0	98	2.8	QCLF 013 230 32 XXX F X DDD
				4	678	1527	1093	765	1390	1701	1843	3091	29.0	228	4.8	
				6	975	2198	1592	1079	1960	2399	2600	4360	33.0	348	8.4	
				8	1263	2770	2031	1325	2408	2948	3194	5356	40.0	470	14.4	
				10	1544	3196	2371	1505	2734	3346	3626	6080	43.0	546	21.2	
		280	32	2	470	1025	725	483	877	1073	1163	1950	24.0	133	3.8	QCLF 013 280 32 XXX F X DDD
				4	853	1921	1375	963	1749	2141	2320	3890	29.5	272	6.4	
				6	1226	2766	2004	1358	2467	3019	3272	5486	34.0	433	11.6	
				8	1590	3486	2556	1668	3031	3709	4020	6740	41.0	587	20.3	
				10	1943	4022	2983	1893	3440	4211	4563	7651	44.0	683	30	
		300	32	2	508	1110	785	522	949	1161	1259	2111	25.0	142	4.8	QCLF 013 300 32 XXX F X DDD
				4	923	2079	1488	1042	1893	2316	2510	4209	31.0	313	8.0	
				6	1327	2993	2169	1469	2670	3267	3541	5937	35.0	481	14.8	
				8	1720	3773	2766	1805	3280	4014	4350	7294	42.0	638	26.2	
				10	2102	4352	3228	2049	3723	4557	4938	8280	45.0	748	38.8	

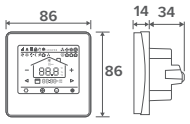
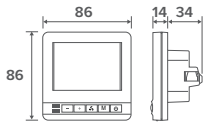
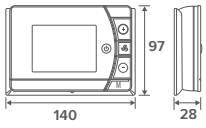
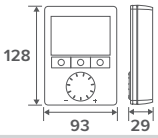
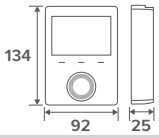
Output measured in accordance with EN 16430
**Noise measurement according to ISO 3741:2010, at a 2-m distance from the unit and with an assumed room attenuation of 8 dB(A)/room volume 100 m³ / reverberation time 0.5 sec.*

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-100	JRT-200	RDG 160T	RDG264KN
					
8751 050019	8751 050017	8751 050012	8751 050013	8751 050009	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 13 B32 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

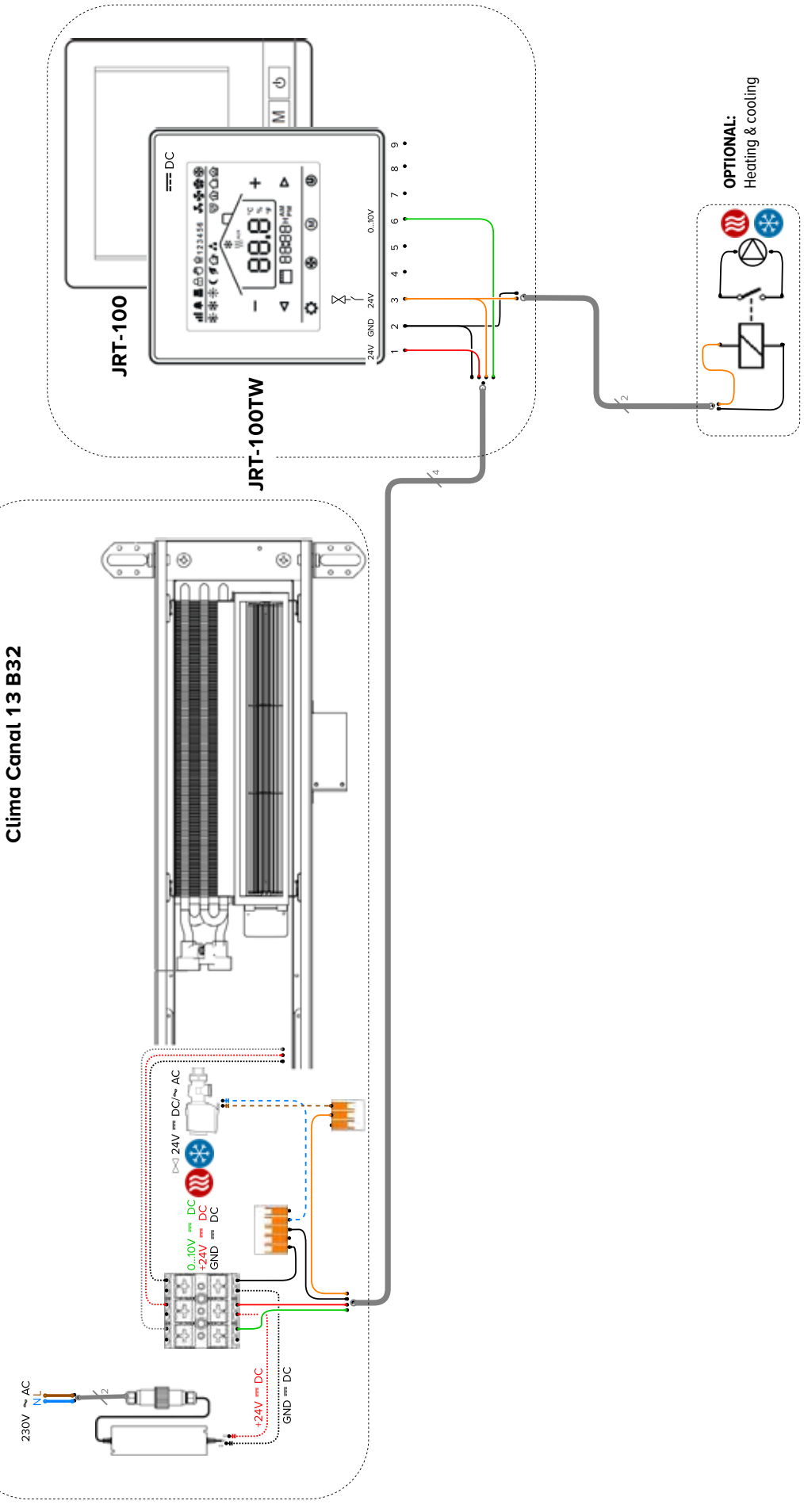
Option 1: one unit

Option 2: multiple units

CLIMA CANAL 13 B32

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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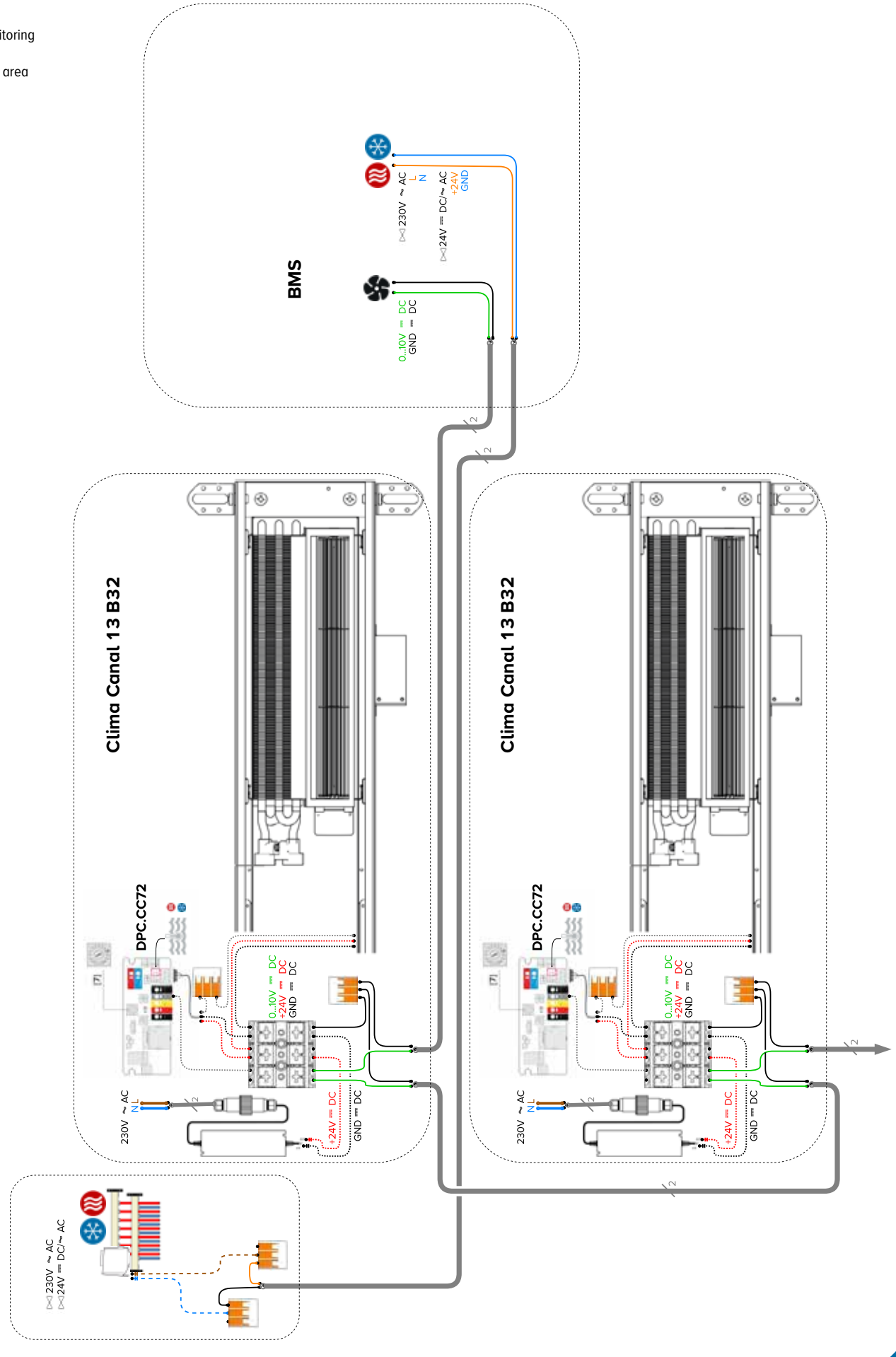
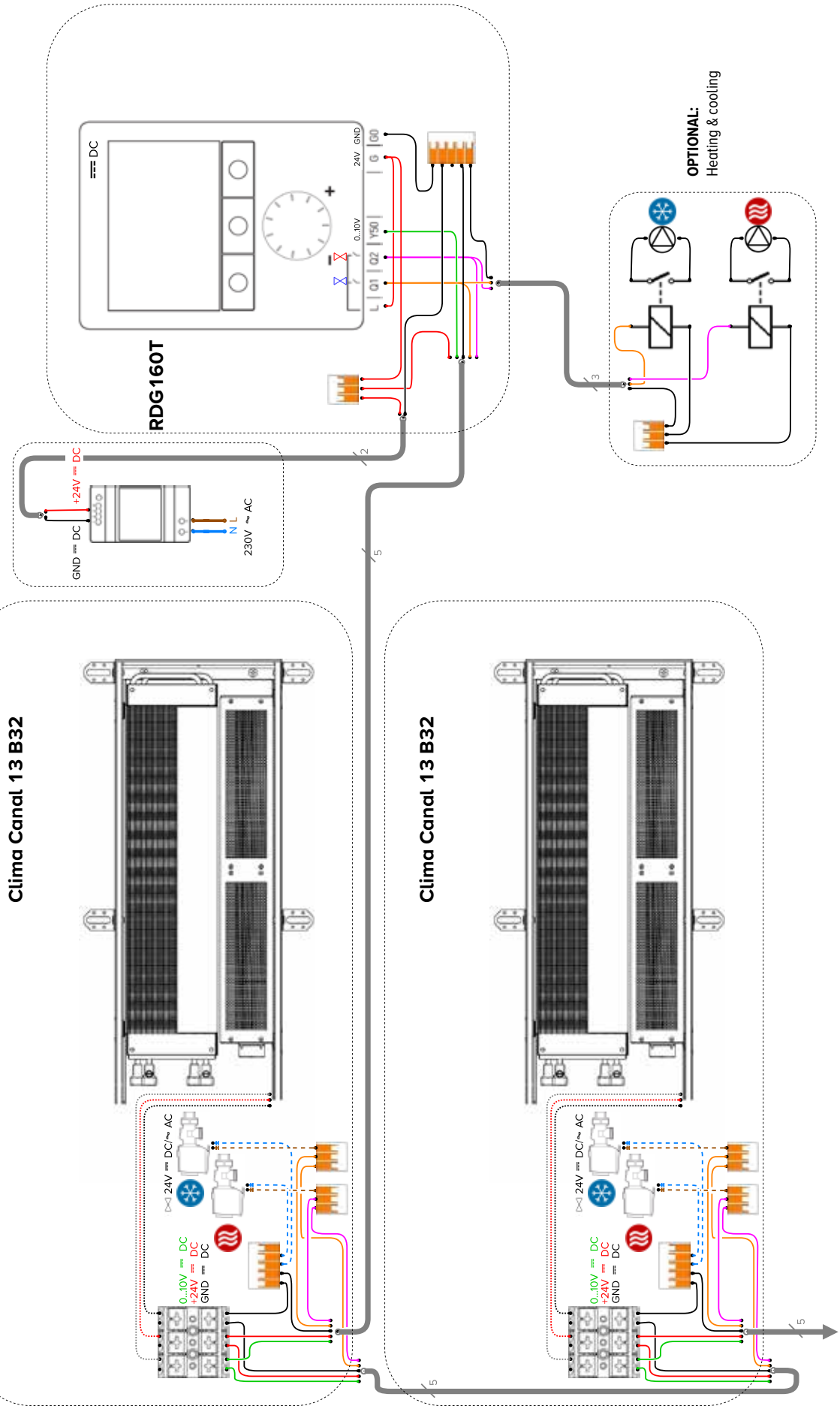
SAMPLE DIAGRAM 2

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



CLIMA CANAL 13 B32

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



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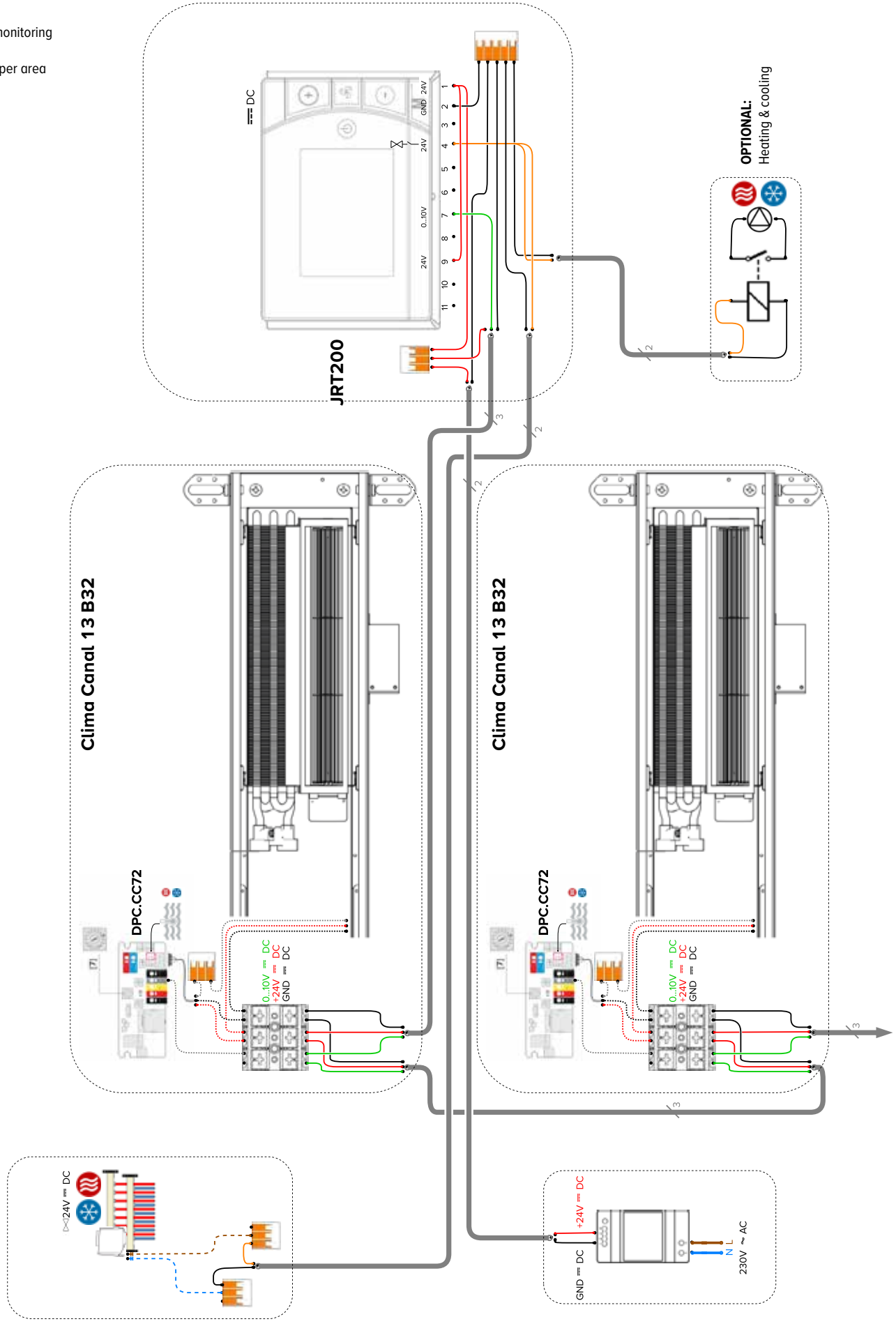
SAMPLE DIAGRAM 4

- 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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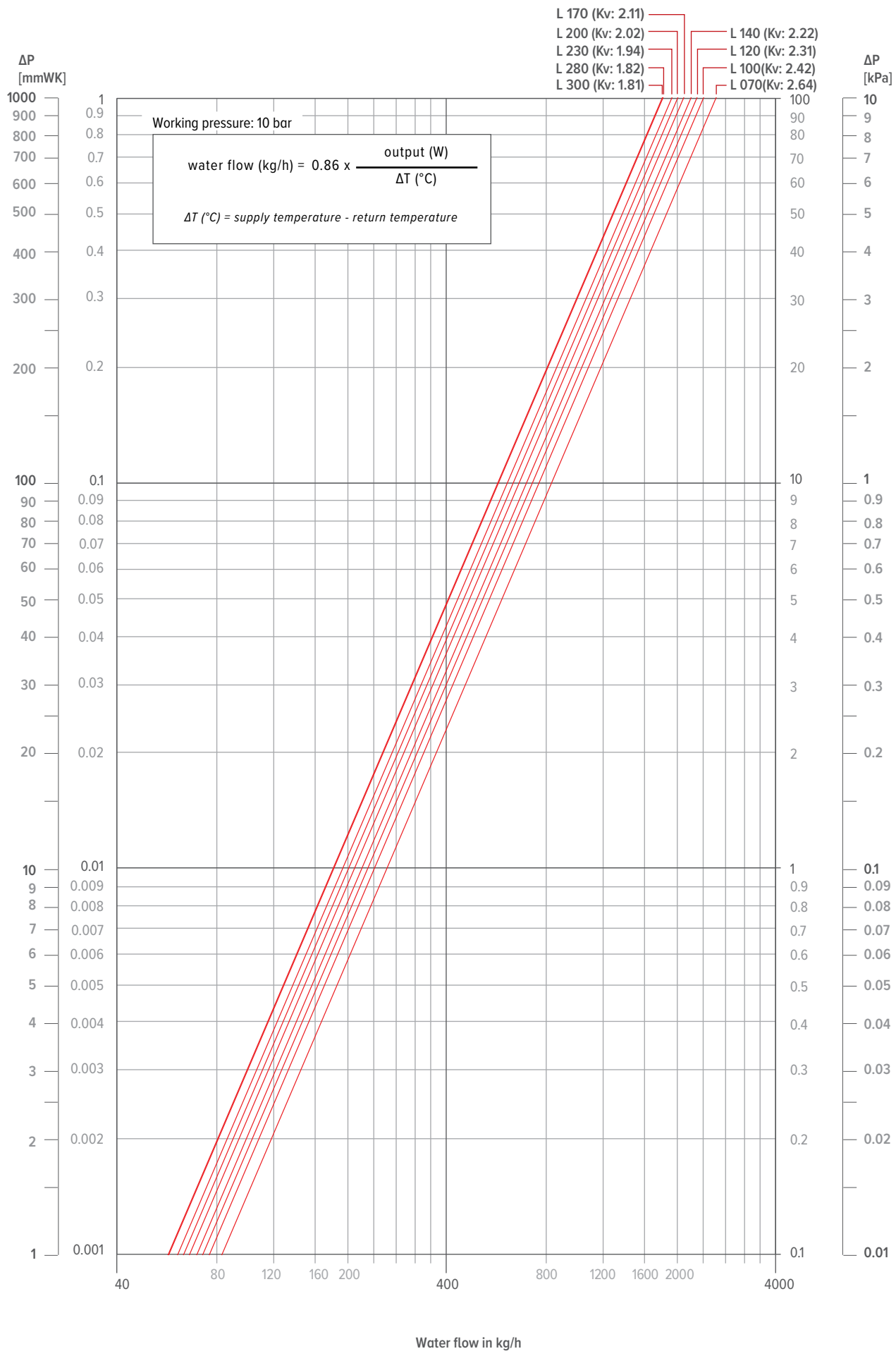
GUIDELINE FOR LIMITING FLOW NOISE

TUBE	outer Ø	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


L 170 (Kv: 2.11)
L 200 (Kv: 2.02)
L 230 (Kv: 1.94)
L 280 (Kv: 1.82)
L 300 (Kv: 1.81)
L 140 (Kv: 2.22)
L 120 (Kv: 2.31)
L 100(Kv: 2.42)
L 070(Kv: 2.64)
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

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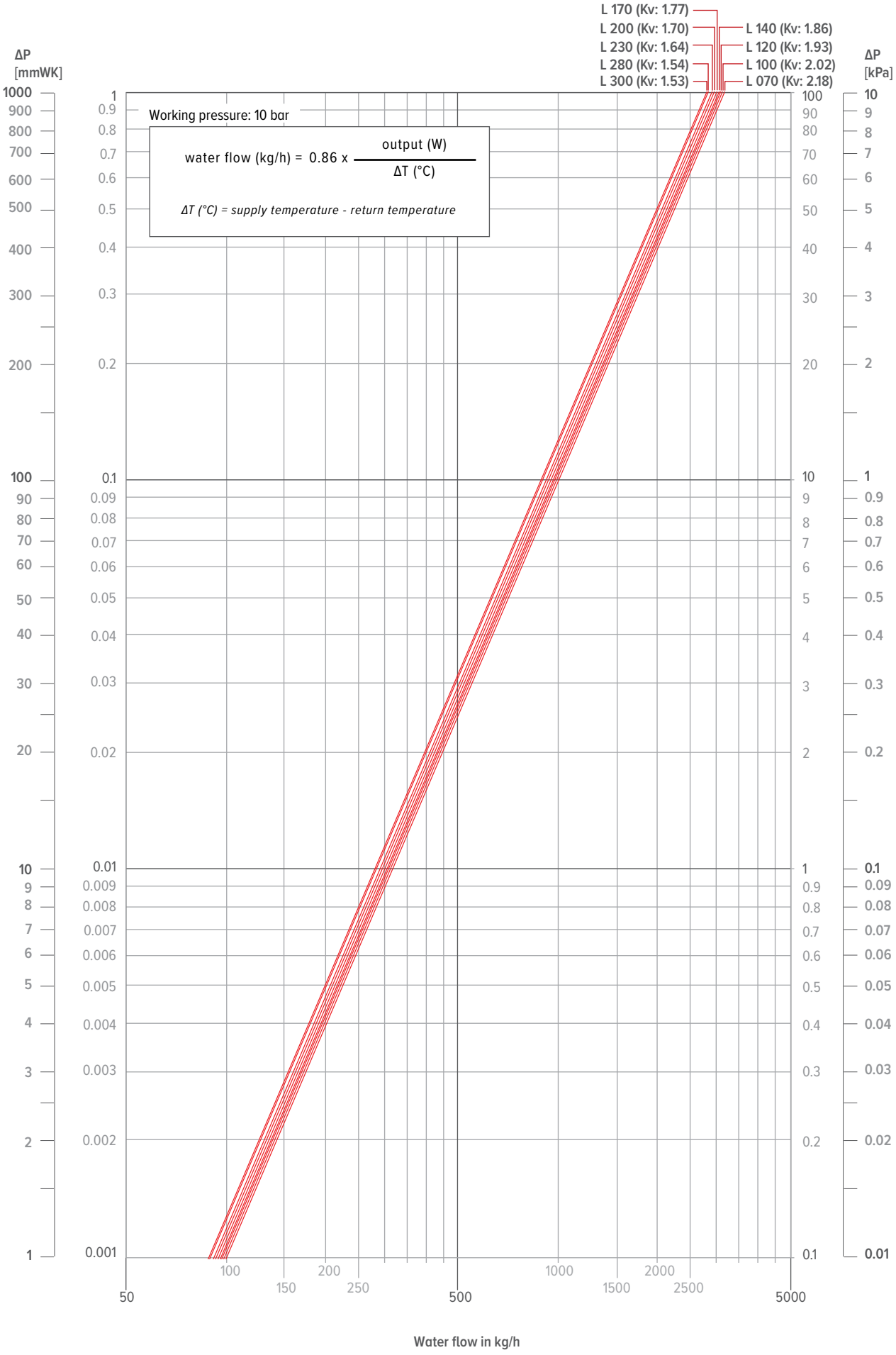
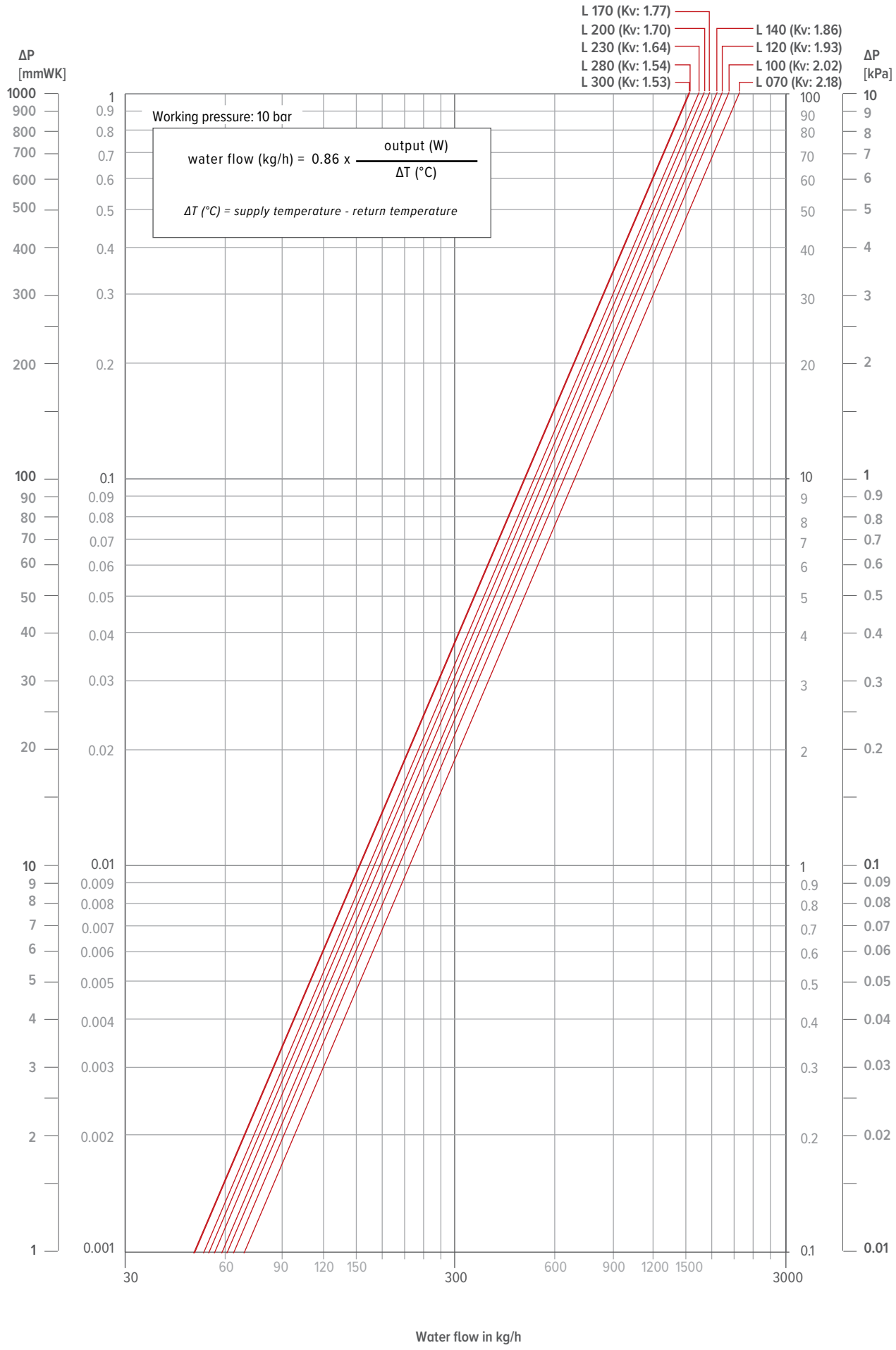
PRESSURE DROP




L 170 (Kv: 1.77)
L 200 (Kv: 1.70)
L 230 (Kv: 1.64)
L 280 (Kv: 1.54)
L 300 (Kv: 1.53)
L 140 (Kv: 1.86)
L 120 (Kv: 1.93)
L 100 (Kv: 2.02)
L 070 (Kv: 2.18)
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

jaga CLIMATE DESIGNERS

JAGA INTERNATIONAL JAGA NV

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

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25/11/2024 - JAGA N.V.