jaga

CLIMATE DESIGNERS

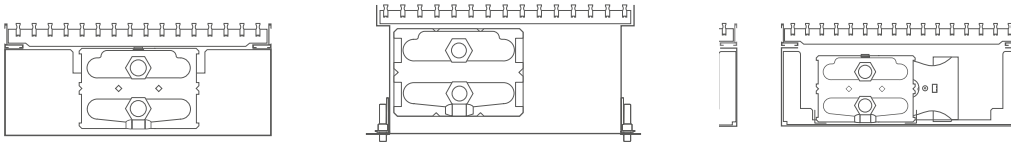
MINI CANAL HYBRID

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

MINI CANAL HYBRID

Do you need other height measurements? Then the Mini Canal is what you need!

Do you need other widths? Then choose the Mini Canal Pro.



	MINI CANAL	MINI CANAL PRO	MINI CANAL HYBRID
OPERATING PRINCIPLE	natural convection	natural convection	convection with fan units
DIMENSIONS			
Height (in cm)	009 - 011 - 014 - 019	009 - 012 - 015 - 020	014
Width (in cm)	14 - 18 - 26 - 34 - 42	14 - 18 - 23 - 30 - 38	26 - 34 - 42
Length (in cm)	070 - 130 (in steps of 10 cm) 150 - 490 (in steps of 20 cm)	070 - 130 (in steps of 10 cm) 150 - 490 (in steps of 20 cm)	070 - 130 (in steps of 10 cm) 150 - 310 (in steps of 20 cm)
OUTPUT			
(75/65/20°C) Watts	76 - 4184	84 - 4407	517 - 8779
(16/18/27°C) Watts	-	-	49 - 380
HYDRONIC CONNECTION			
Opposite end connections	B14 H009 & B14 H011	B14 H009 & B14 H012	-
Same-end connection	height 009 011 014 019	height 009 012 015 020	✓
	width 14 - - ✓ ✓	width 14 - - ✓ ✓	
	width 18 ✓ ✓ ✓	width 18 ✓ ✓ ✓ ✓	
	width 26 ✓ ✓ ✓ ✓	width 23 ✓ ✓ ✓ ✓	
	width 34 ✓ ✓ ✓ ✓	width 30 ✓ ✓ ✓ ✓	
	width 42 ✓ ✓ ✓ ✓	width 38 ✓ ✓ ✓ ✓	
ELECTRICAL CONNECTION			
Power supply 230 VAC	-	-	optional
Power supply 24 VDC	-	-	optional
ACCESSORIES			
Anchorage	✓	-	✓
Ventilation	optional	optional	optional
Cover plate	optional	✓	optional
Acoustic strip	optional	optional	optional
Height adjustment 0 - 4.5 cm	optional	✓	optional
Height adjustment 4.5 - 10 cm	optional	optional	optional
Base insulation	optional	optional	optional
3-sided insulation	optional	optional	optional
GRILLE			
Rigid aluminium grilles	✓	✓	✓
Designo rigid aluminium grilles	✓	✓	✓
Roll-up aluminium grilles	✓	✓	✓
Roll-up stainless steel grille	✓	✓	✓
Roll-up wooden grilles	✓	✓	✓
Designo roll-up wooden grilles	✓	✓	✓
Pliable aluminium grilles	-	✓	-

MINI CANAL HYBRID

SAME SIZE, 3 TIMES THE HEATING OUTPUT FOR LOW WATER TEMPERATURES. HEIGHT 14 CM.

Condensing boilers, heat pumps and solar systems require much larger heating elements as they operate with very low water temperatures of sometimes no more than 35°C.
No problem for the Mini Canal Hybrid, as it delivers 3 to 4 times more heat than a conventional floor-integrated solution.

- high output at low water temperatures
- for newbuild and renovation of commercial and public buildings
- suitable for ventilation
- requires little space
- a range of grilles for every interior
- Low-H_2O technology with super conductive and ultra fast heat exchanger for low energy consumption and maximum heat emission
- 30 year warranty on the heat exchanger

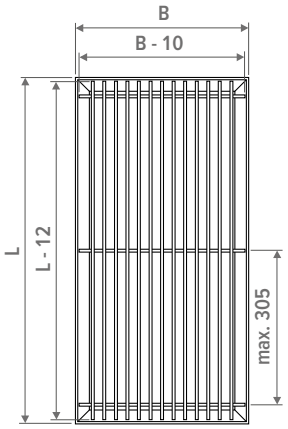
Mini Canal Hybrid is also suitable for non-condensing cooling in combination with any heat pump that has a cooling function.
This mild form of cooling is very energy-efficient.

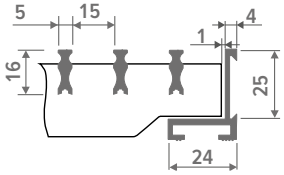
RIGID ANODISED ALUMINIUM GRILLES

Rigid anodized aluminium grille with matching colour frame.

PROPERTIES

- eco-friendly, scratch-resistant powder coating with high UV-resistance
- free air flow: 75%
- no correction factor to apply on the output





Dimensional tolerance width grille: +2 mm
(Dimensions in mm)

SNA Alu. natural

SNC/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.

SBL Black

SDB Dark brown

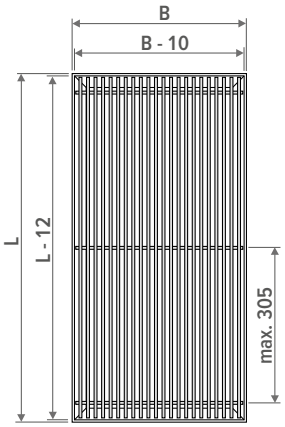
SBR Brass-coloured

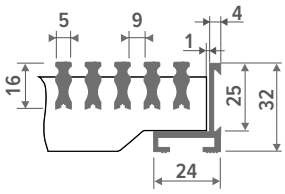
DESIGNO RIGID ANODISED ALUMINIUM GRILLES

Rigid anodized aluminium grille, Designo model with reduced slat spacing.
Matching colour frame.

PROPERTIES

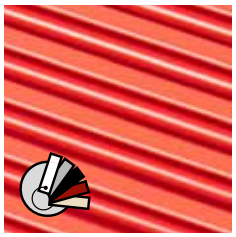
- eco-friendly, scratch-resistant powder coating with high UV-resistance
- free air flow: 62.5%
- output correction factor: 0.97





Dimensional tolerance width grille: +2 mm
(Dimensions in mm)

DNA Alu. natural



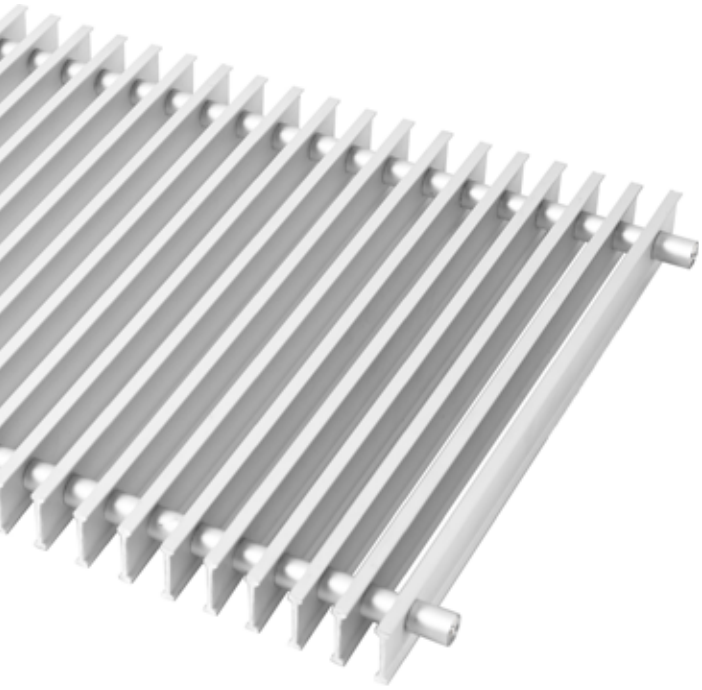
DNC/XXX Alu. coated

⚠ 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.

DBL Black

DDB Dark brown

DBR Brass-coloured

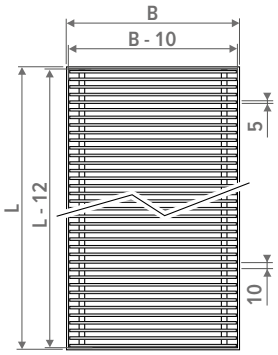


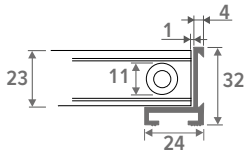
RETRACTABLE ANODISED ALUMINIUM GRILLES

Roll-up anodized aluminium grille with frame in matching colour.

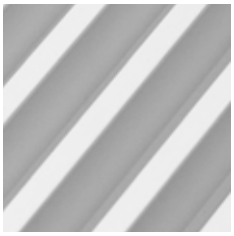
PROPERTIES

- eco-friendly, scratch-resistant powder coating with high UV-resistance
- free air flow: 70%
- no correction factor to apply on the output





Dimensional tolerance width grille: +2 mm
(Dimensions in mm)

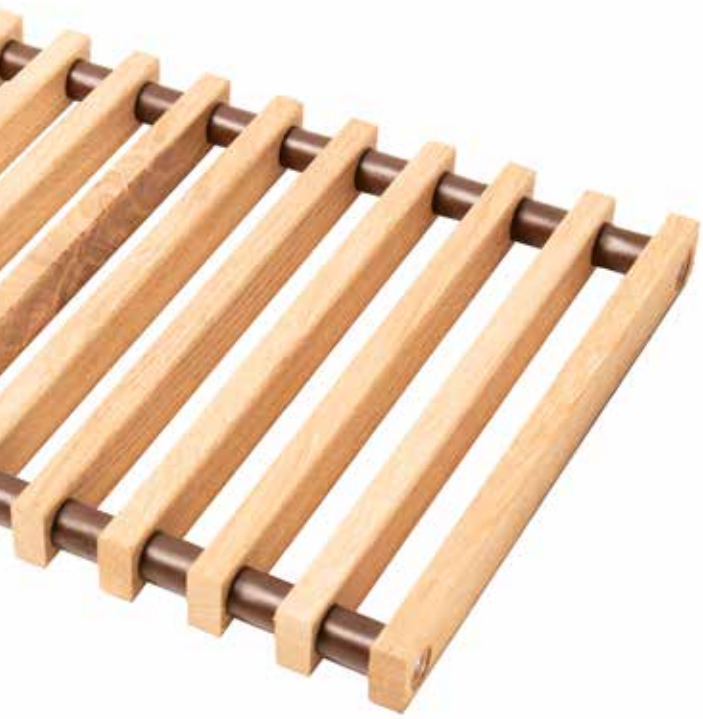


RNA Alu. natural

RBL Black

RDB Dark brown

RBR Brass-coloured

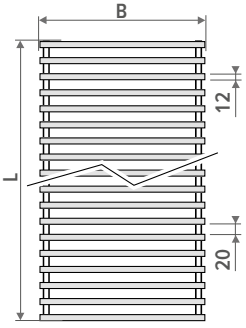


ROLL-UP WOODEN GRILLES

Roll-up natural or varnished grille, with dark brown coloured synthetic spacers. Frame in brown anodized aluminium.

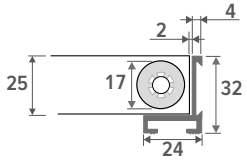
PROPERTIES

- eco-friendly, scratch-resistant powder coating with high UV-resistance
- free air flow: 63%
- output correction factor 0.97

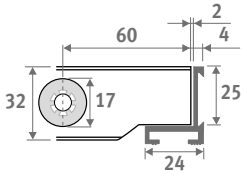


Dimensional tolerance width grille: +2 mm
(Dimensions in mm)

WIDTH GRILLE ≤ 40.8 CM



WIDTH GRILLE ≥ 44.8 CM



NATURAL WOODEN ROLL-UP GRILLES

RON Oak natural

RBN Beech natural

RMN Merbau natural

VARNISHED WOODEN ROLL-UP GRILLES

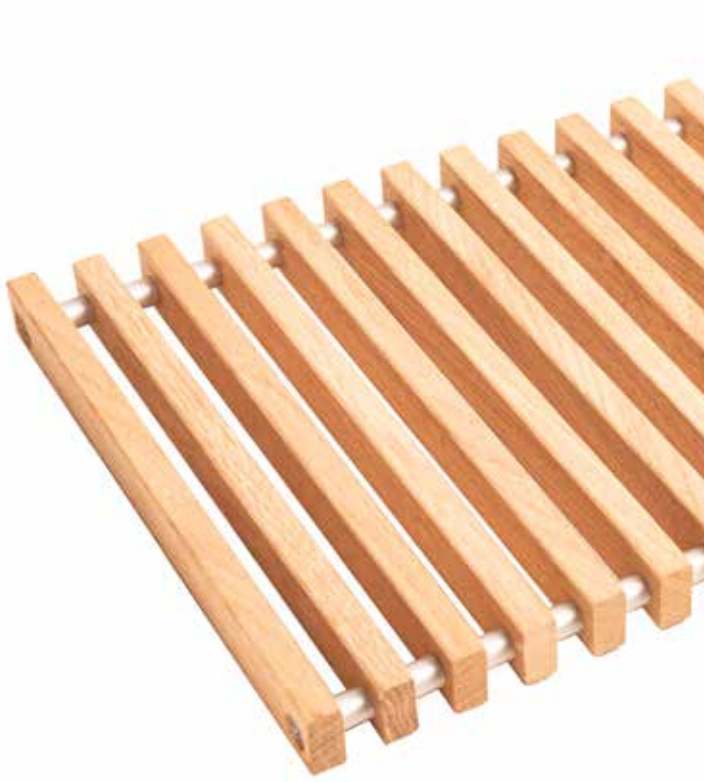
ROV Oak varnished

RBV Beech varnished

RMV Merbau varnished

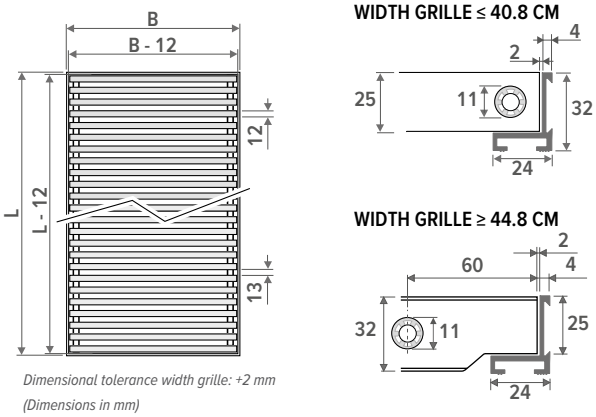
DESIGNO ROLL-UP WOODEN GRILLES

Roll-up natural or varnished grille, Designo model with reduced slat spacing and natural colour anodized aluminium spacers. Frame in natural coloured anodized aluminium.



PROPERTIES

- eco-friendly, scratch-resistant powder coating with high UV-resistance
- free air flow: 52%
- output correction factor: 0.93



Dimensional tolerance width grille: +2 mm
(Dimensions in mm)

DESIGNO NATURAL WOODEN RETRACTABLE GRILLES

DON Oak natural

DBN Beech natural

DMN Merbau natural

DESIGNO VARNISHED ROLL-UP WOODEN GRILLES

DOV Oak varnished

DBV Beech varnished

DMV Merbau varnished

OVERVIEW CORNERS 90° OR 135°

DISTINCT CORNERS

See Specials

WOODEN AND ALUMINIUM GRILLES

- to order corner units, please complete the Mini Canal code with the desired angle (see code of the angle in the illustrations below)
- delivery: mitred ducts and grilles and couplings for invisible installation
- if possible, use standard lengths in order to avoid additional costs for customisation
- output values can be consulted in the tables of the respective length
- please provide a drawing with your order.

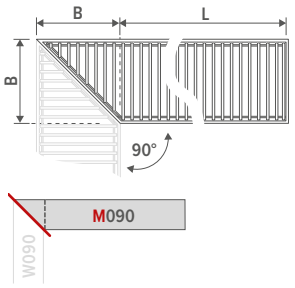
ORDERING EXAMPLE

MDCL 014 110 26 RNA TW090 TM090

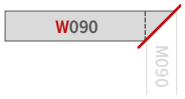
LEGEND *(in mm)*

B	140	180	260	340	420
A	60	75	110	140	175

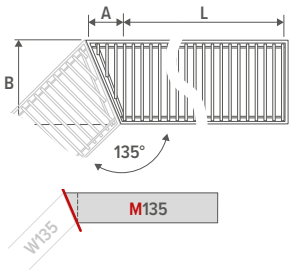
SINGLE CORNERS



C01: M090 (corner 90° M)



C03: W090 (corner 90° W)

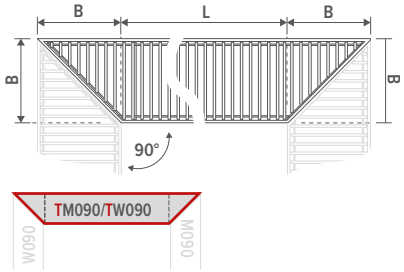


C02: M135 (corner 135° M)

C04: W135 (corner 135°)

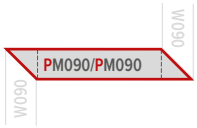
OVERVIEW CORNERS 90° OR 135°

DOUBLE CORNERS

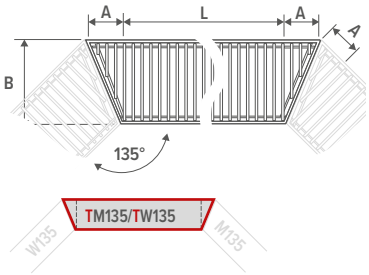


C11: TW090/TM090 (2 x corner 90° T)

C05: PW090/PW090 (2 x corner 90° PW)



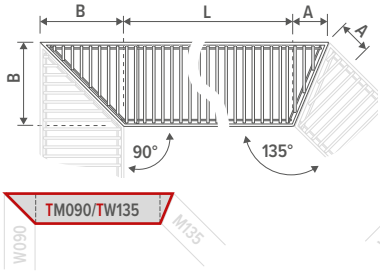
C08: PM090/PM090 (2 x corner 90° PM)



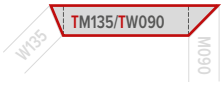
C13: TW135/TM135 (2 x corner 135° T)

C10: PM135/PM135 (2 x corner 135° PM)

C07: PW135/PW135 (2 x corner 135° PW)



C12: TW090/TM135 (corner 90° & 135° T)



C14: TW135/TM090 (corner 135° & 90° T)

C06: PW090/PW135 (corner 90° & 135° PW)

C09: PM090/PM135 (corner 90° & 135° PM)

DISTINCT CORNERS

See Specials

OPTION connection 230V

WATER TEMPERATURE SENSOR

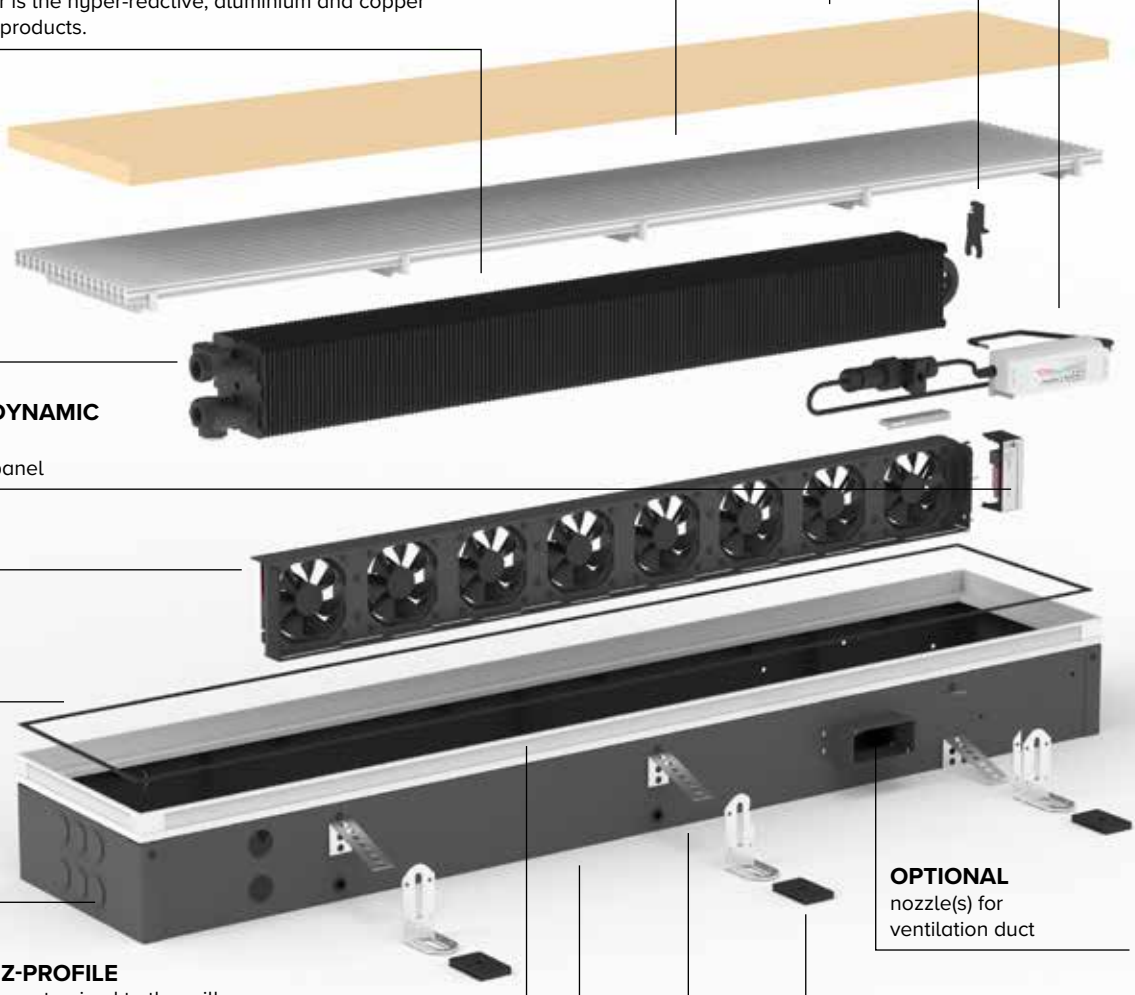
COVER PLATE
protects the Mini Canal against contamination and damaging during construction works

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

Rigid aluminium grilles | Designo rigid aluminium grilles | Roll-up aluminium grilles | Roll-up wooden grilles | Designo roll-up wooden grilles

LOW-H2O HEAT EXCHANGER
The Low-H2O heat exchanger is the hyper-reactive, aluminium and copper motor of the ecological Jaga products.

GUARANTEE 30 YEAR HEAT EXCHANGER



AIR VENT

PRE-ASSEMBLED JAGA DYNAMIC PRODUCT CONTROLLER
(JDPC) with fingertip control panel

FAN UNIT(S)

OPTION
acoustic strip in black rubber prevents impact sounds

SEALS
for the connection holes, made of black synthetic material

OPTIONAL
nozzle(s) for ventilation duct

ALUMINIUM L-PROFILE / Z-PROFILE
in anodised aluminium, colour customised to the grille

L-profile MDCL | Z-profile MDCZ

OPTION
easy height adjustment for uneven floors. Provided with acoustic decoupling.

HOUSING
from Sendzimir galvanized and dark grey lacquered steel plate; thickness 1 mm, with connection holes on all sides

ANCHORAGE
number in accordance with length

MINI CANAL HYBRID

ORDER CODE MINI CANAL HYBRID

MDCX HHH LLL BB RRR CCC L DDD V P ii h ccc

- *Option: corners*
- *Option: air outlet vent*
- *Option: height adjustment*
- *Option: isolation*
- *Option: cover plate*
- *Option: power supply*
- *Control systems:*
  - *Jaga BMS 0-10V control: D03*
  - *Jaga BMS 0-10V control: D12 (heating)*
  - *Jaga 3-speed control: D05*
  - *Jaga 3-speed control: D13 (heating)*
  - *Jaga On/off: D07*
  - *Jaga On/off: D14 (heating)*
- *Colour Grille*
- *Grille*
- *Width*
- *Length*
- *Height*
- *Profile:*
  with frame (L-profile): L
  with cover frame (Z-profile): Z

STANDARD DELIVERY

Completely assembled dark-grey floor drain with:
- Low-H2O heat exchanger, with dirt and dust repellent coating in graphite grey (RAL 7024)
- pre-mounted Jaga Dynamic Product Controller (JDPC)(Manual)
- grille and mounted L-profile frame or Z-profile cover frame
- anchorage
- air vent(s) 1/8" and drain plug(s) 1/2"
- Fan unit(s)
- 12 VDC control with water temperature sensor
- manual 3-position speed controller
- clamp connector for 12 VDC, directly on the control board

PROFILE

L-profile: MDCL

Z-profile: MDCZ

HEIGHT / WIDTH

HEIGHT	WIDTH	26	34	42
014		✓	✓	✓

LENGTH

070 cm to 490 cm

GRILLE

COLOUR GRILLE

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.

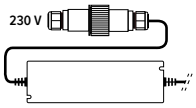
CONTROL SYSTEMS

JDPC (Jaga Dynamic Product Controller)

Control panel

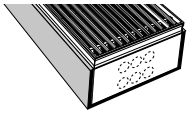
OPTION

Power supply



Cover plate

Isolation



Height adjustment

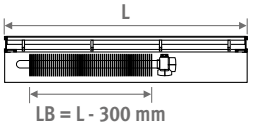
Air outlet vent

Corners

MINI CANAL HYBRID

PRODUCT SUMMARY *(in mm)*

Calculation example:
Output from Mini Canal Hybrid H014 - B34 - L290

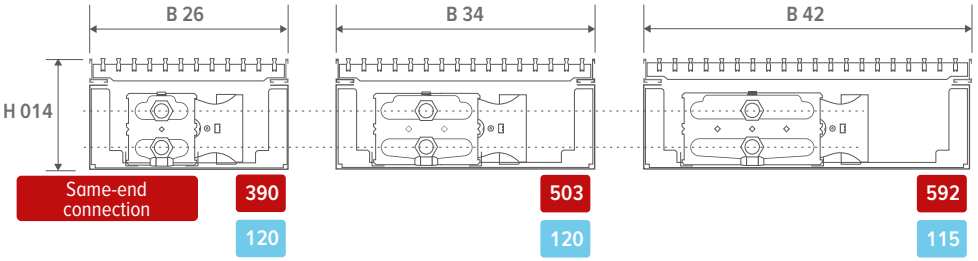


Dimensions in mm

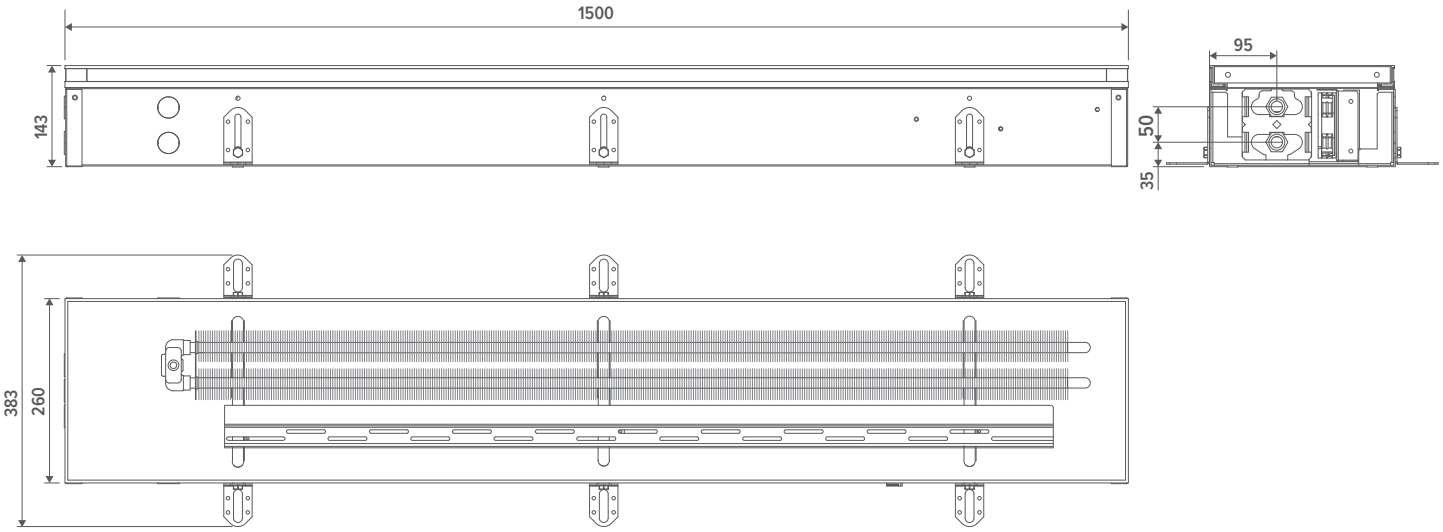
Watt/meter corrugated (LB) bij 75/65/20)

LB = L - 300 mm

$774\ Watts \times \frac{(290 - 30)}{100} = 1858\ Watts$



DIMENSIONS *(in mm)*



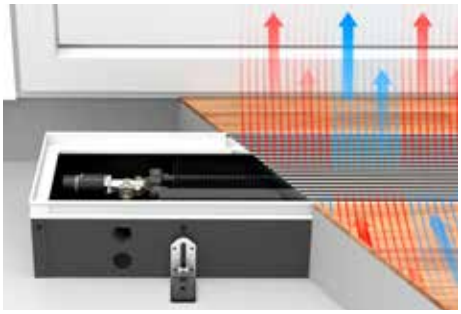
INSTALLATION

The Mini Canal Hybrid is supplied completely mounted and ready for use. Suitable for installation onto rough concrete subfloors, in floating or suspended floors, or even into existing trenches. Optional 'Z' profile cover frame for mounting on the finished floor. If this isn't possible, the cover frame can be detached and be replaced when desired. The cover frame allows the seam between the floor and the trench to be covered.

- position builder's level on finished floor level by means of anchoring bars or the optional height adjusters
- feed the pipes through and seal the through holes
- possibly provide additional tube for the remote controlled radiator valve
- test installation for pressure levels
- finish the floor

OPERATING PRINCIPLE

The downward cold air flow associated with glazed façades often causes discomfort. Mini Canal ensures a warm air curtain: the cold air layer from the glass and the cooler return air on the floor are drawn in, heated and mixed with the warmer upper air so a balanced and even comfort temperature is achieved.



MINI CANAL HYBRID

CATEGORY 1

SNA
Rigid alu. natural

SBR
Rigid alu. Brass-coloured

SDB
Rigid alu. Dark brown

SBL
Rigid alu. Black

CATEGORY 2

DNA
Designo
Rigid alu. natural

DBR
Designo rigid alu.
Brass-coloured

DDB
Designo rigid alu.
Dark brown

DBL
Designo
rigid alu. Black

RMN
roll-up wooden
Merbau natural

RMV
roll-up wooden
Merbau varnished

RBN
Roll-up wooden
beech natural

RBV
Roll-up wooden
beech varnished

RBR
Roll-up aluminium.
Brass-coloured

RNA
roll-up aluminium.
natural

RON
roll-up wooden oak
natural

ROV
roll-up wooden oak
varnished

DBN
Designo
roll-up wooden
beech natural

DMN
Designo
roll-up wooden
Merbau natural

SNC XXX
rigid coated alu

CATEGORY 3

DMV
Designo
roll-up wooden
Merbau varnished

DON
Designo
roll-up wooden oak
natural

DOV
Designo
roll-up wooden oak
varnished

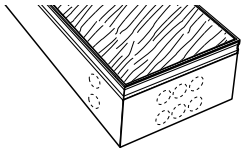
RBL
roll-up aluminium.
Black

RDB
roll-up aluminium.
Dark brown

DBV
Designo
roll-up wooden
beech varnished

DNC XXX
Designo
rigid coated alu

COVER PLATE

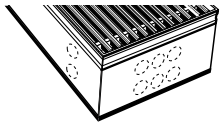


- fibreboard, thickness 22 mm
- protects the Mini Canal against contamination and damaging during construction works

CODE	
MDCL HHH LLL BB XXX L DDD **P**	pre-mountend

enter control system code
fill in grille code
Enter width
fill out length
Enter the height.

BASE INSULATION



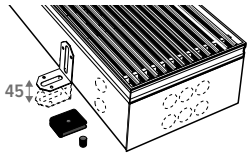
⚠ (not available separately)

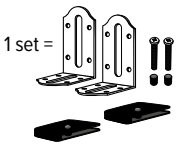
- dark grey extruded EPDM, thickness 5 mm
- also to avoid transfer of noise when used on upper storeys

CODE	
MDCL HHH LLL BB XXX L DDD **l1**	pre-mountend

enter control system code
fill in grille code
Enter width
fill out length
Enter the height.

HEIGHT ADJUSTMENT





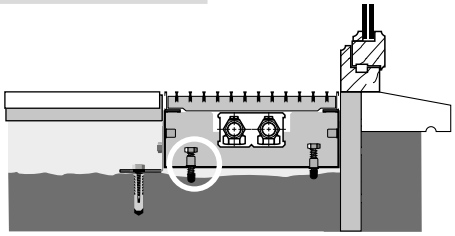
- simple height control for uneven subfloors
- provided with acoustic decoupling

CODE	PRE-MOUNTEND
MICL HHH LLL BB XXX L DDD **A**	0 - 4.5 cm
MICL HHH LLL BB XXX L DDD **B**	4 - 10 cm

enter control system code
fill in grille code
Enter width
fill out length
Enter the height.

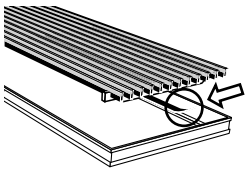
LENGTH *cm*	SETS
110	2
130 > 190	3
210	4
230 > 310	5

LENGTH *cm*	SETS
330 > 370	7
410	8
450 > 490	10



The height control option is always provided with extra adjusting screws in order to install the duct flat against the window frame.

ACOUSTIC STRIP



- for aluminium and wood grilles (not for stainless steel)
- black adhesive rubber strip, thickness 0.5 mm
- prevents impact sounds
- roll 6 metre
- to avoid contact noises. Order the number of rolls required according to the circumference of the frame: (B + L) x 2.

CODE
7690.02

MOUTHPIECE FOR VENTILATION DUCT

Metal mouthpiece

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

CODE	
MDCL 014 LLL BB XXX L DDD **V1**	4 x 9 cm

enter control system code
fill in grille code
Enter width
fill out length

- connection for pretreated air
- supply diameter: Ø8
- made from galvanised steel plate

CODE	
MDCL 014 LLL BB XXX L DDD **V2**	Ø8 cm

enter control system code
fill in grille code
Enter width
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	
MDCL 014 LLL BB XXX L DDD **V5**	pre-perforated opening
MDCL 014 LLL BB XXX L DDD **V6**	Pre-mountend

enter control system code
fill in grille code
Enter width
fill out length

MINI CANAL HYBRID

CONNECTION SET

Connection set 3/4" Eurocone

set 272 **Kv max. 0.6**

TWO PIPE	THERMOSTATIC HEAD	
Heating		
COMC JV2 AB 4...	AB	
COMC JV2 RD 4...	RD	
COMC JV2 RW 4...	RW	
Heating and cooling		
COMC JV2 MA 4...	MA	
COMC JV2 24 4...	24 (24 VDC)	
COMC JV2 23 4...	23 (230VAC)	

fill in sleeve coupling code

Sleeve couplings 3/4" Eurocone

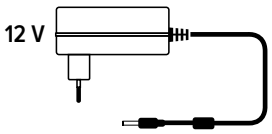
PRECISION METAL TUBE	
CODE	*Tube Ø*
112	12/1
114	14/1
115	15/1
116	16/1
118	18/1

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

Connection always at the right side of de duct

Option VDC

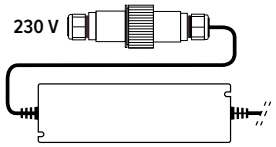


Plug-in wall power supply 230 VAC/12VDC.

CODE	
MDCL HHH LLL BB XXX L DDD **1**	VDC

- enter control system code
- fill in grille code
- Enter width
- fill out length
- Enter the height.

Option VAC



For connection to 230 VAC with waterproof power and cable gland in the duct.

CODE	
MDCL HHH LLL BB XXX L DDD **2**	VAC

- enter control system code
- fill in grille code
- Enter width
- fill out length
- Enter the height.

CONTROL SYSTEMS

JDPC (JAGA DYNAMIC PRODUCT CONTROLLER)

TYPE	POSITION	CONTROL PANEL	EXTERNAL 0-10 V CONTROL	WATER TEMPERATURE SENSOR	AIR TEMPERATURE SENSOR
Jaga 3-speed control (D13)		✓	-	✓	-
Jaga 3-speed control (D05)		✓	-	✓	-
Jaga BMS 0-10V control (D12)		-	✓	✓	-
Jaga BMS 0-10V control (D03)		-	✓	✓	-
Jaga On/off (D14)		-	-	✓	-
Jaga On/off (D07)		-	-	✓	-

JAGA 3 SETTINGS CONTROLLER

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

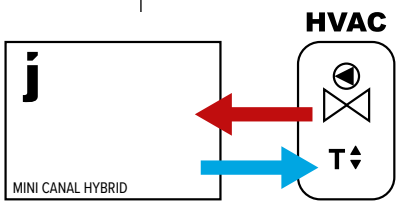
JAGA BMS 0-10V CONTROL

- When heat or cold is requested, a BMS/home automation system or JAGA thermostat will open the thermoelectric valve. When heat or cold is requested, a BMS/home automation system or JAGA thermostat will send a 0-10V signal. When detecting cold (<18°C) or hot (>28°C) water, the fan will rotate proportionally to the 0-10V signal.

JAGA ON/OFF

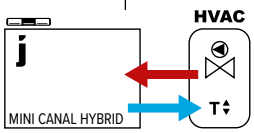
- When heat or cold is requested, an external signal (thermostat, BMS/home automation, ...) a thermal engine.
- The fan will rotate at a fixed speed once the water has reached the setting of 28°C.
- he fan will rotate at a fixed speed once the water has reached the setting of 18°C.

Unit without integrated room temperature control
Fans will start automatically when the external control sends warm/ cold water through the radiator



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)

JAGA 3 SETTINGS CONTROLLER

Heating only

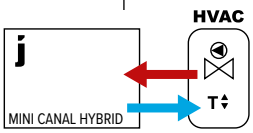
Coding: D13

Or

JAGA 3 SETTINGS CONTROLLER

Heating and cooling

Coding: D05



JAGA ON/OFF

Heating only

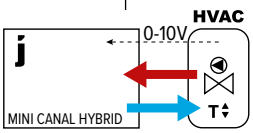
D14

Or

JAGA ON/OFF

Heating and cooling

D07



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

JAGA BMS

Heating only

D12

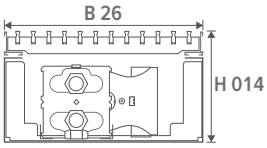
Or

JAGA BMS

Heating and cooling

D03

MINI CANAL HYBRID



HEIGHT H cm	LENGTH L cm	WIDTH B cm	POSITION	LIGHT COOLING (non-condensing) room temperature 27°C 16/18 Watts	HEATING Room temperature 20°C 35/30 Watts	45/40 Watts	50/45 Watts	55/45 Watts	75/65 Watts	SOUND PRESSURE LEVEL dB(A)	ELECTRIC POWER CONSUMPTION Watts	WEIGHT kg	WATER CONTENT L	ORDER CODE
MDCL 014	070	26	0		21	48	63	71	143			8	0.46	MDCL 014 070 26 XXX L DDD
			1	49	111	215	268	293	517	21.2	3.7	8	0.46	
			2	52	118	228	285	311	550	25.2	4.1	8	0.46	
			3	52	123	237	295	323	570	31.0	4.7	8	0.46	
	080	26	0		27	60	79	88	178			10	0.52	MDCL 014 080 26 XXX L DDD
			1	61	199	385	481	525	927	24.2	4.9	10	0.52	
			2	65	213	411	514	561	991	28.2	5.4	10	0.52	
			3	65	222	429	536	585	1033	34.0	6.5	10	0.52	
	090	26	0		32	72	95	106	214			11	0.59	MDCL 014 090 26 XXX L DDD
			1	73	207	400	499	545	963	24.2	6.1	11	0.59	
			2	78	221	426	532	582	1027	28.2	6.7	11	0.59	
			3	78	230	444	554	605	1069	34.0	8.4	11	0.59	
	100	26	0		37	85	111	124	251			12	0.65	MDCL 014 100 26 XXX L DDD
			1	86	296	571	713	779	1375	26.0	7.3	12	0.65	
			2	91	317	611	763	833	1471	30.0	8.0	12	0.65	
			3	91	330	637	795	869	1534	35.7	10.2	12	0.65	
	110	26	0		43	96	126	141	285			13	0.72	MDCL 014 110 26 XXX L DDD
			1	98	303	585	730	798	1409	26.0	8.4	13	0.72	
			2	103	324	625	780	852	1505	30.0	9.4	13	0.72	
			3	104	337	651	813	888	1568	35.7	11.0	13	0.72	
	120	26	0		50	113	149	166	335			14	0.78	MDCL 014 120 26 XXX L DDD
			1	108	385	742	926	1012	1787	26.0	9.6	14	0.78	
			2	115	414	799	998	1090	1925	30.0	10.6	14	0.78	
			3	117	440	849	1060	1158	2045	37.0	13.9	14	0.78	
	130	26	0		54	121	159	178	359			15	0.85	MDCL 014 130 26 XXX L DDD
			1	120	390	751	938	1025	1810	26.0	10.8	15	0.85	
			2	128	419	809	1010	1104	1949	30.0	12.0	15	0.85	
			3	130	445	858	1072	1171	2068	37.0	14.7	15	0.85	
	150	26	0		64	145	191	213	430			18	0.98	MDCL 014 150 26 XXX L DDD
			1	141	473	912	1139	1245	2198	26.0	13.2	18	0.98	
			2	151	512	988	1233	1347	2379	30.0	14.6	18	0.98	
			3	155	552	1066	1331	1454	2567	38.0	18.3	18	0.98	
	170	26	0		75	169	223	249	503			20	1.11	MDCL 014 170 26 XXX L DDD
			1	161	555	1070	1336	1459	2577	26.0	15.5	20	1.11	
			2	174	603	1163	1453	1587	2802	30.0	17.2	20	1.11	
			3	181	660	1273	1590	1737	3067	38.8	22.0	20	1.11	
	190	26	0		88	198	260	290	587			22	1.24	MDCL 014 190 26 XXX L DDD
			1	181	637	1229	1535	1676	2960	26.0	17.8	22	1.24	
			2	197	695	1340	1673	1828	3228	30.0	19.7	22	1.24	
			3	207	770	1485	1855	2026	3578	39.4	25.7	22	1.24	
	210	26	0		96	217	285	319	644			24	1.37	MDCL 014 210 26 XXX L DDD
			1	204	649	1252	1564	1709	3017	26.0	17.8	24	1.37	
			2	222	707	1364	1703	1860	3285	30.0	19.7	24	1.37	
			3	233	782	1509	1885	2059	3636	39.4	25.7	24	1.37	
	230	26	0		107	241	318	355	717			27	1.50	MDCL 014 230 26 XXX L DDD
			1	223	720	1389	1734	1894	3345	26.0	20.0	27	1.50	
			2	244	787	1518	1896	2072	3658	30.0	22.2	27	1.50	
			3	259	882	1702	2125	2322	4100	40.0	29.3	27	1.50	
	250	26	0		118	265	349	390	788			29	1.63	MDCL 014 250 26 XXX L DDD
			1	243	804	1552	1938	2117	3738	26.0	22.2	29	1.63	
			2	265	881	1700	2123	2319	4095	30.0	24.6	29	1.63	
			3	285	997	1924	2402	2624	4634	40.5	33.0	29	1.63	
	270	26	0		128	290	381	425	860			31	1.76	MDCL 014 270 26 XXX L DDD
			1	262	880	1697	2120	2316	4089	26.0	24.4	31	1.76	
			2	287	966	1864	2328	2543	4491	30.0	27.0	31	1.76	
			3	311	1105	2131	2662	2908	5134	41.0	36.7	31	1.76	
	290	26	0		139	313	413	460	931			34	1.89	MDCL 014 290 26 XXX L DDD
			1	280	954	1841	2299	2511	4434	26.0	26.5	34	1.89	
			2	308	1050	2026	2530	2764	4881	30.0	29.4	34	1.89	
			3	341	1196	2306	2880	3147	5556	38.1	36.8	34	1.89	
	310	26	0		150	339	446	498	1006			36	2.02	MDCL 014 310 26 XXX L DDD
			1	299	1028	1984	2478	2707	4779	26.0	28.7	36	2.02	
			2	329	1135	2188	2733	2986	5272	30.0	31.8	36	2.02	
			3	358	1248	2408	3007	3285	5800	35.0	36.4	36	2.02	

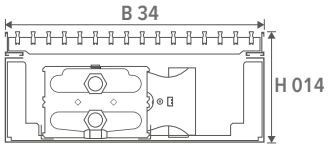
** Output measured in accordance with EN 16430*

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

enter control system code

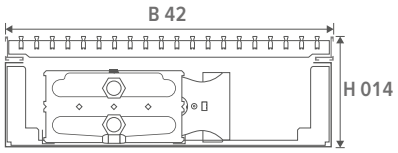
MINI CANAL HYBRID



HEIGHT H cm	LENGTH L cm	WIDTH B cm	POSITION	LIGHT COOLING (non-condensing) room temperature 27°C 16/18 Watts	HEATING Room temperature 20°C 35/30 Watts	45/40 Watts	50/45 Watts	55/45 Watts	75/65 Watts	SOUND PRESSURE LEVEL dB(A)	ELECTRIC POWER CONSUMPTION Watts	WEIGHT kg	WATER CONTENT L	ORDER CODE
MDCL 014	070	34	0		28	63	83	93	188			10	0.69	MDCL 014 070 34 XXX L DDD
			1	56	144	278	347	379	670	21.2	3.7	10	0.69	
			2	61	153	294	370	405	711	25.2	4.1	10	0.69	
			3	61	156	301	376	411	726	31.0	4.7	10	0.69	
	080	34	0		35	79	104	116	235			12	0.78	MDCL 014 080 34 XXX L DDD
			1	69	258	497	621	678	1198	24.2	4.9	12	0.78	
			2	76	275	531	664	725	1280	28.2	5.4	12	0.78	
			3	76	271	544	680	742	1311	34.0	6.5	12	0.78	
	090	34	0		42	95	125	139	282			13	0.88	MDCL 014 090 34 XXX L DDD
			1	83	268	517	645	705	1245	26.0	6.1	13	0.88	
			2	91	286	550	688	752	1328	30.0	6.7	13	0.88	
			3	91	292	564	704	769	1358	34.0	8.4	13	0.88	
	100	34	0		49	111	147	164	331			15	0.98	MDCL 014 100 34 XXX L DDD
			1	97	382	737	921	1006	1776	26.0	7.3	15	0.98	
			2	106	409	788	984	1076	1899	30.0	8.0	15	0.98	
			3	106	419	807	1008	1102	1945	35.7	10.2	15	0.98	
	110	34	0		56	127	167	186	376			16	1.08	MDCL 014 110 34 XXX L DDD
			1	111	392	756	944	1031	1821	26.0	8.4	16	1.08	
			2	121	418	806	1008	1110	1944	30.0	9.4	16	1.08	
			3	122	428	826	1032	1127	1990	35.7	11.0	16	1.08	
	120	34	0		66	149	196	219	442			18	1.18	MDCL 014 120 34 XXX L DDD
			1	120	496	957	1195	1305	2305	26.0	9.6	18	1.18	
			2	133	535	1033	1290	1409	2488	30.0	10.6	18	1.18	
			3	137	558	1076	1344	1469	2593	35.7	13.9	18	1.18	
	130	34	0		71	159	210	234	473			19	1.27	MDCL 014 130 34 XXX L DDD
			1	134	503	970	1211	1323	2336	26.0	10.8	19	1.27	
			2	148	542	1046	1306	1427	2524	30.0	12.0	19	1.27	
			3	152	565	1089	1360	1486	2624	37.0	14.7	19	1.27	
	150	34	0		84	191	251	280	566			22	1.47	MDCL 014 150 34 XXX L DDD
			1	155	609	1175	1468	1603	2831	26.0	13.2	22	1.47	
			2	174	662	1277	1595	1742	3076	30.0	14.6	22	1.47	
			3	182	701	1352	1688	1844	3256	38.0	18.3	22	1.47	
	170	34	0		99	223	294	328	663			25	1.67	MDCL 014 170 34 XXX L DDD
			1	176	713	1376	1719	1877	3315	26.0	15.5	25	1.67	
			2	200	779	1504	1878	2051	3622	30.0	17.2	25	1.67	
			3	213	837	1615	2017	2203	3890	38.8	22.0	25	1.67	
	190	34	0		115	260	343	382	773			27	1.86	MDCL 014 190 34 XXX L DDD
			1	196	818	1578	1970	2153	3801	26.0	17.8	27	1.86	
			2	224	898	1731	2162	2362	4171	30.0	19.7	27	1.86	
			3	243	977	1840	2353	2571	4539	39.4	25.7	27	1.86	
	210	34	0		127	286	376	420	849			30	2.06	MDCL 014 210 34 XXX L DDD
			1	220	834	1609	2012	2196	3877	26.0	17.8	30	2.06	
			2	252	914	1763	2202	2405	4247	30.0	19.7	30	2.06	
			3	274	952	1915	2392	2613	4614	39.4	25.7	30	2.06	
	230	34	0		141	318	419	467	945			33	2.25	MDCL 014 230 34 XXX L DDD
			1	239	934	1801	2249	2457	4338	26.0	20.0	33	2.25	
			2	275	1027	1981	2474	2703	4772	30.0	22.2	33	2.25	
			3	304	1129	2178	2721	2972	5248	40.0	29.3	33	2.25	
	250	34	0		155	350	461	514	1039			36	2.45	MDCL 014 250 34 XXX L DDD
			1	257	1031	1988	2483	2712	4789	26.0	22.2	36	2.45	
			2	298	1138	2195	2741	2994	5287	30.0	24.6	36	2.45	
			3	334	1265	2441	3048	3330	5880	40.5	33.0	36	2.45	
	270	34	0		169	381	502	560	1133			38	2.65	MDCL 014 270 34 XXX L DDD
			1	275	1126	2171	2711	2962	5230	26.0	24.4	38	2.65	
			2	321	1247	2405	3004	3281	5794	30.0	27.0	38	2.65	
			3	365	1401	2703	3375	3688	6511	41.0	36.7	38	2.65	
	290	34	0		183	413	544	607	1227			41	2.84	MDCL 014 290 34 XXX L DDD
			1	292	1219	2352	2937	3208	5665	26.0	26.5	41	2.84	
			2	343	1355	2613	3263	3565	6295	30.0	29.4	41	2.84	
			3	403	1536	2893	3700	4043	7138	38.1	36.8	41	2.84	
	310	34	0		198	446	587	655	1325			44	3.04	MDCL 014 310 34 XXX L DDD
			1	309	1312	2531	3161	3453	6097	26.0	28.7	44	3.04	
			2	365	1462	2820	3522	3847	6793	30.0	31.8	44	3.04	
			3	417	1613	3111	3886	4245	7495	35.0	36.4	44	3.04	

** 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
enter control system code



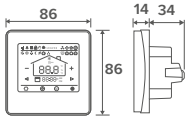
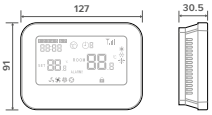
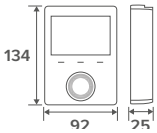
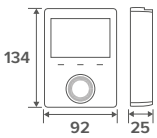
HEIGHT	LENGTH	WIDTH	POSITION	LIGHT COOLING (non-condensing) room temperature 27°C	HEATING Room temperature 20°C				SOUND PRESSURE LEVEL	ELECTRIC POWER CONSUMPTION	WEIGHT	WATER CONTENT	ORDER CODE
H	L	B		16/18	35/30	45/40	50/45	55/45	75/65					
cm	cm	cm		Watts	Watts	Watts	Watts	Watts	Watts	dB(A)	Watts	kg	L	
MDCL 014	070	42	0		35	78	103	115	233			13	0.92	MDCL 014 070 42 XXX L DDD
			1	30	170	329	411	449	792	21.2	3.7	13	0.92	
			2	32	180	348	434	475	838	25.2	4.1	13	0.92	
			3	32	184	355	443	484	855	31.0	4.7	13	0.92	
	080	42	0		43	98	129	144	291			14	1.06	MDCL 014 080 42 XXX L DDD
			1	60	303	584	730	797	1408	24.2	4.9	14	1.06	
			2	64	323	623	778	850	1500	28.2	5.4	14	1.06	
			3	64	330	637	796	869	1535	34.0	6.5	14	1.06	
	090	42	0		52	118	155	173	350			16	1.19	MDCL 014 090 42 XXX L DDD
			1	60	316	609	761	831	1467	26.0	6.1	16	1.19	
			2	64	335	647	808	882	1558	30.0	6.7	16	1.19	
			3	64	343	661	826	902	1593	34.0	8.4	16	1.19	
	100	42	0		61	138	182	203	411			18	1.32	MDCL 014 100 42 XXX L DDD
			1	89	449	866	1081	1181	2086	26.0	7.3	18	1.32	
			2	96	479	922	1153	1260	2224	30.0	8.0	18	1.32	
			3	96	490	945	1180	1289	2276	35.7	10.2	18	1.32	
	110	42	0		70	157	207	230	466			19	1.45	MDCL 014 110 42 XXX L DDD
			1	89	461	889	1110	1213	2141	26.0	8.4	19	1.45	
			2	96	490	945	1181	1291	2279	30.0	9.4	19	1.45	
			3	96	502	968	1209	1321	2332	35.7	11.0	19	1.45	
	120	42	0		82	184	242	271	547			21	1.58	MDCL 014 120 42 XXX L DDD
			1	115	583	1125	1405	1535	2711	26.0	9.6	21	1.58	
			2	126	627	1210	1511	1651	2915	30.0	10.6	21	1.58	
			3	128	653	1259	1573	1718	3034	37.0	13.9	21	1.58	
	130	42	0		87	197	260	290	586			23	1.72	MDCL 014 130 42 XXX L DDD
			1	115	592	1141	1425	1557	2749	26.0	10.8	23	1.72	
			2	126	635	1226	1531	1672	2953	30.0	12.0	23	1.72	
			3	128	661	1275	1593	1740	3072	37.0	14.7	23	1.72	
	150	42	0		105	236	311	347	702			26	1.98	MDCL 014 150 42 XXX L DDD
			1	140	717	1384	1728	1888	3334	26.0	13.2	26	1.98	
			2	155	776	1497	1870	2043	3607	30.0	14.6	26	1.98	
			3	160	820	1582	1975	2158	3810	38.0	18.3	26	1.98	
	170	42	0		123	276	364	406	821			29	2.24	MDCL 014 170 42 XXX L DDD
			1	164	841	1622	2026	2213	3908	26.0	15.5	29	2.24	
			2	183	914	1764	2203	2406	4249	30.0	17.2	29	2.24	
			3	192	980	1890	2360	2578	4552	38.0	22.0	29	2.24	
	190	42	0		143	323	425	474	958			33	2.51	MDCL 014 190 42 XXX L DDD
			1	187	965	1862	2325	2540	4485	26.0	17.8	33	2.51	
			2	210	1054	2033	2539	2773	4897	30.0	19.7	33	2.51	
			3	224	1143	2204	2753	3007	5310	39.4	25.7	33	2.51	
	210	42	0		157	354	466	520	1052			36	2.77	MDCL 014 210 42 XXX L DDD
			1	187	985	1901	2374	2593	4579	26.0	17.8	36	2.77	
			2	210	1074	2071	2587	2826	4990	30.0	19.7	36	2.77	
			3	224	1163	2243	2802	3013	5404	39.4	25.7	36	2.77	
	230	42	0		175	394	519	579	1171			39	3.04	MDCL 014 230 42 XXX L DDD
			1	210	1103	2128	2657	2903	5126	26.0	20.0	39	3.04	
			2	237	1207	2328	2908	3177	5609	30.0	22.2	39	3.04	
			3	256	1322	2550	3185	3480	6144	40.0	29.3	39	3.04	
	250	42	0		192	433	571	637	1287			42	3.30	MDCL 014 250 42 XXX L DDD
			1	231	1208	2350	2935	3207	5662	26.0	22.2	42	3.30	
			2	263	1338	2581	3223	3521	6217	30.0	24.6	42	3.30	
			3	288	1481	2857	3568	3898	6883	40.5	33.0	42	3.30	
	270	42	0		210	473	622	694	1404			46	3.56	MDCL 014 270 42 XXX L DDD
			1	253	1332	2569	3208	3505	6188	26.0	24.4	46	3.56	
			2	288	1467	2829	3534	3860	6816	30.0	27.0	46	3.56	
			3	321	1640	3164	3951	4317	7622	41.0	36.7	46	3.56	
	290	42	0		227	512	674	752	1520			49	3.83	MDCL 014 290 42 XXX L DDD
			1	273	1443	2784	3476	3798	6706	26.0	26.5	49	3.83	
			2	313	1594	3075	3840	4195	7407	30.0	29.4	49	3.83	
			3	359	1797	3466	4329	4729	8350	38.1	36.8	49	3.83	
	310	42	0		245	553	728	812	1642			52	4.09	MDCL 014 310 42 XXX L DDD
			1	294	1554	2998	3744	4090	7222	26.0	28.7	52	4.09	
			2	338	1721	3320	4146	4529	7997	30.0	31.8	52	4.09	
			3	380	1889	3644	4551	4972	8779	35.0	36.4	52	4.09	

** 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.

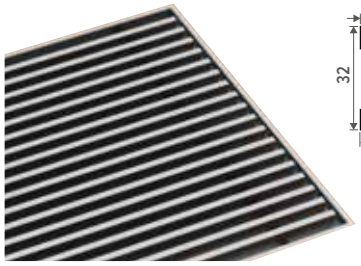
fill in grille code
enter control system code

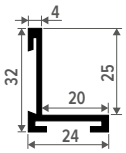
MINI CANAL HYBRID

	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

FRAME





STANDARD DELIVERY

frame in anodized aluminium
lengths up to 6 metres in one piece
choice of aluminium frame:

- FNA: natural colour
- FNC: lacquered
- FBL: black
- FDB: dark brown
- FBR: brass-coloured

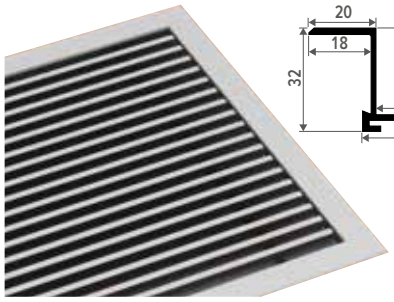
To ensure perfect adherence of the lacquer coating, an extremely wear-resistant and UV-resistant polyester lacquer coating of the highest quality is used.

ORDER CODE FRAME

FRML 070 14 XXX

- XXX: *Colour frame*
  - *FNA: natural colour*
  - *FNC: lacquered*
  - *FBL: black*
  - *FDB: dark brown*
  - *FBR: brass-coloured*
- 14: *Width*
- 070: *Length*

Z PROFILE (COVER FRAME)



STANDARD DELIVERY

cover frame (Z-profile) in anodised aluminium
Lengte tot max. 6 meter uit één stuk.
choice of aluminium cover frame (Z-profile):

- FNA: natural colour
- FNC: lacquered
- FBL: black
- FDB: dark brown
- FBR: brass-coloured

To ensure perfect adherence of the lacquer coating, an extremely wear-resistant and UV-resistant polyester lacquer coating of the highest quality is used.

The cover frame (Z-profile) allows for an impeccable level of finishing in renovations or wooden floors.

ORDER CODE Z PROFILE (COVER FRAME)

FRMZ 070 14 XXX

- XXX: *Colour Z profile (cover frame)*
  - *FNA: natural colour*
  - *FNC: lacquered*
  - *FBL: black*
  - *FDB: dark brown*
  - *FBR: brass-coloured*
- 14: *Width*
- 070: *Length*

MINI CANAL HYBRID

GRILLES

STANDARD DELIVERY

choice of
- wooden grilles
- aluminium grilles
- stainless steel grille

lengths up to 6 metres in one piece
length grille = length frame - 1.2 cm

ORDER CODE

GRIL 108.8 12.8 XXX
- XXX: *Rooster*
- 12.8: *Width*
- 108.8: *Length*

⚠ Dimensional tolerance width grille: +/- 2 mm

OVERVIEW GRILLES

CATEGORY 1

SNA
Rigid alu. natural

SBR
Rigid alu. Brass-coloured

SDB
Rigid alu. Dark brown

SBL
Rigid alu. Black

CATEGORY 2

DNA
Designo
Rigid alu. natural

DBR
Designo rigid alu.
Brass-coloured

DDB
Designo rigid alu.
Dark brown

DBL
Designo
rigid alu. Black

RMN
roll-up wooden
Merbau natural

RMV
roll-up wooden
Merbau varnished

RBN
Roll-up wooden
beech natural

RBV
Roll-up wooden
beech varnished

RBR
Roll-up aluminium.
Brass-coloured

RNA
roll-up aluminium.
natural

RON
roll-up wooden oak
natural

ROV
roll-up wooden oak
varnished

DBN
Designo
roll-up wooden
beech natural

DMN
Designo
roll-up wooden
Merbau natural

SNC XXX
rigid coated alu

CATEGORY 3

DMV
Designo
roll-up wooden
Merbau varnished

DON
Designo
roll-up wooden oak
natural

DOV
Designo
roll-up wooden oak
varnished

RBL
roll-up aluminium.
Black

RDB
roll-up aluminium.
Dark brown

DBV
Designo
roll-up wooden
beech varnished

DNC XXX
Designo
rigid coated alu

HEAT EXCHANGER

STANDARD DELIVERY

- heat exchanger including air vent and drain cock
- **length of standard heat exchanger = L duct - 10 cm**

ORDER CODE SAME-END CONNECTION

5003 000 060 05 BS10

Type heat exchanger

Length heat exchanger

OVERVIEW TYPES OF HEAT EXCHANGERS

	Width 26	Width 32	Width 42
Height 014	 *Type 10*	 *Type 15*	 *Type 20*

JAGA DYNAMIC PRODUCT CONTROLLER

STANDARD DELIVERY

Jaga Dynamic Product Controller

ORDER CODE JDPC

DPC MD45 XXX

Length

FAN UNIT(S)

STANDARD DELIVERY

Fan unit(s)

ORDER CODE FAN UNIT(S)

7605 0101 XX

Number of Fans

STAINLESS STEEL FLEXIBLE CONNECTIONS 1/2”

STANDARD DELIVERY

2 stainless steel flexible connections 1/2”

Flexible connections may also be used to connect the heat exchangers. In this way, it will be easy to lift the heat exchanger, e. g. for annual cleaning. Just choose a heat exchanger which is one size shorter and order 2 extra brackets.

ORDER CODE FLEXIBELS

7990 068

CORRECTION FACTORS

The indicated outputs at ΔT 50 are exact values, measured in accordance with EN442. 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 FOR HYBRID PRODUCTS - 75/65/20°C

room temperature: 20°C — **Average N-value: 1.10**

TA \ TR	65	60	55	50	45	40	35	30	25
75	1.00	0.94	0.88	0.81	0.74	0.67	0.59	0.50	0.38
70	0.95	0.89	0.83	0.77	0.70	0.63	0.55	0.47	0.36
65		0.84	0.78	0.72	0.66	0.59	0.52	0.43	0.33
60			0.73	0.67	0.61	0.55	0.48	0.40	0.30
55				0.62	0.57	0.51	0.44	0.37	0.28
50					0.52	0.46	0.40	0.33	0.25
45						0.42	0.36	0.29	0.22
40							0.31	0.26	0.19
35								0.22	0.15
30									0.12

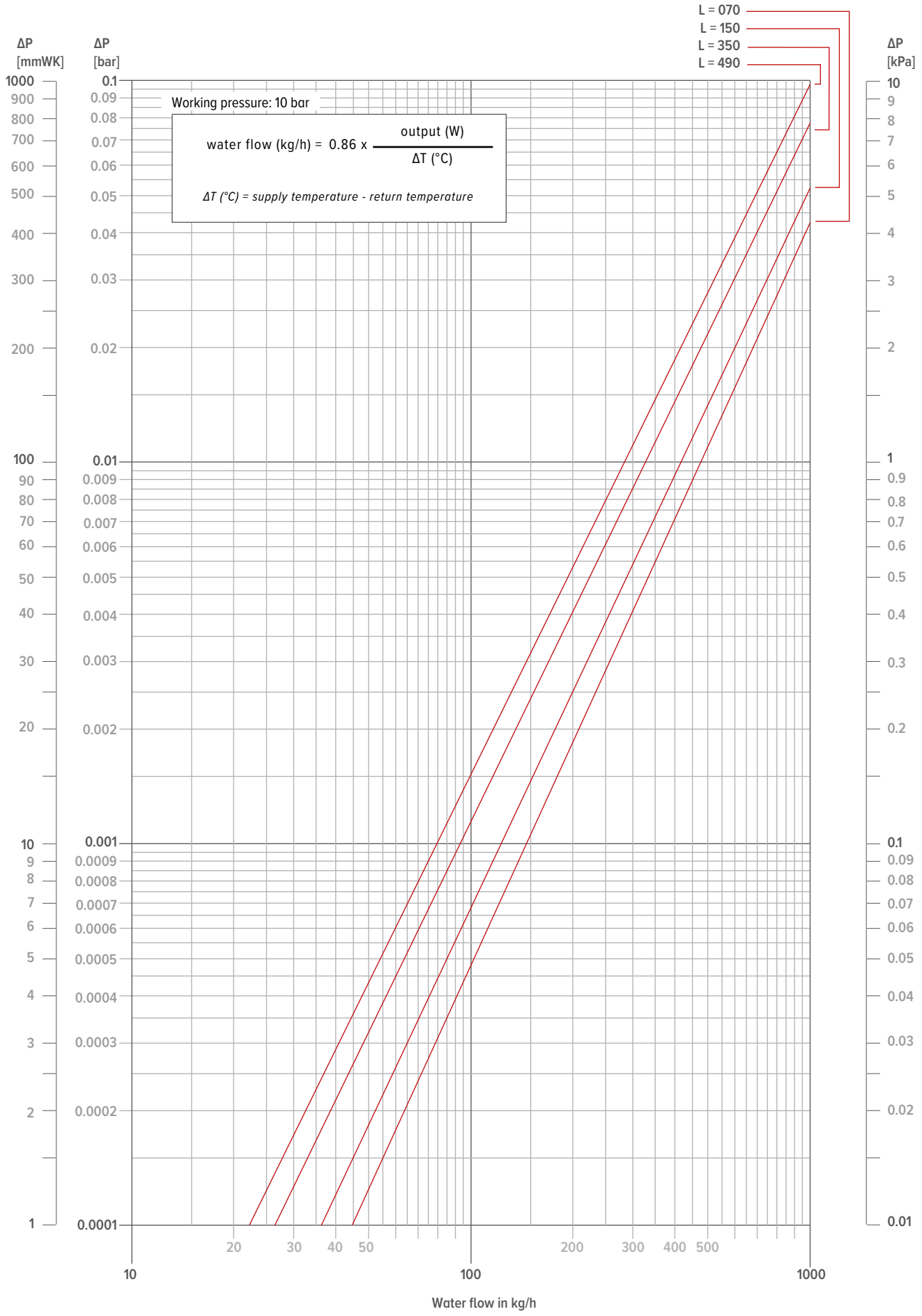
room temperature: 24°C — **Average N-value: 1.10**

TA \ TR	65	60	55	50	45	40	35	30	25
75	0.91	0.85	0.79	0.72	0.65	0.58	0.49	0.39	0.22
70	0.86	0.80	0.74	0.68	0.61	0.54	0.46	0.36	0.20
65		0.75	0.69	0.63	0.57	0.50	0.42	0.33	0.19
60			0.64	0.59	0.53	0.46	0.39	0.30	0.17
55				0.54	0.48	0.42	0.35	0.27	0.15
50					0.44	0.38	0.32	0.24	0.13
45						0.33	0.28	0.21	0.11
40							0.23	0.17	0.09
35								0.14	0.07
30									0.04

GUIDELINE FOR LIMITING FLOW NOISE

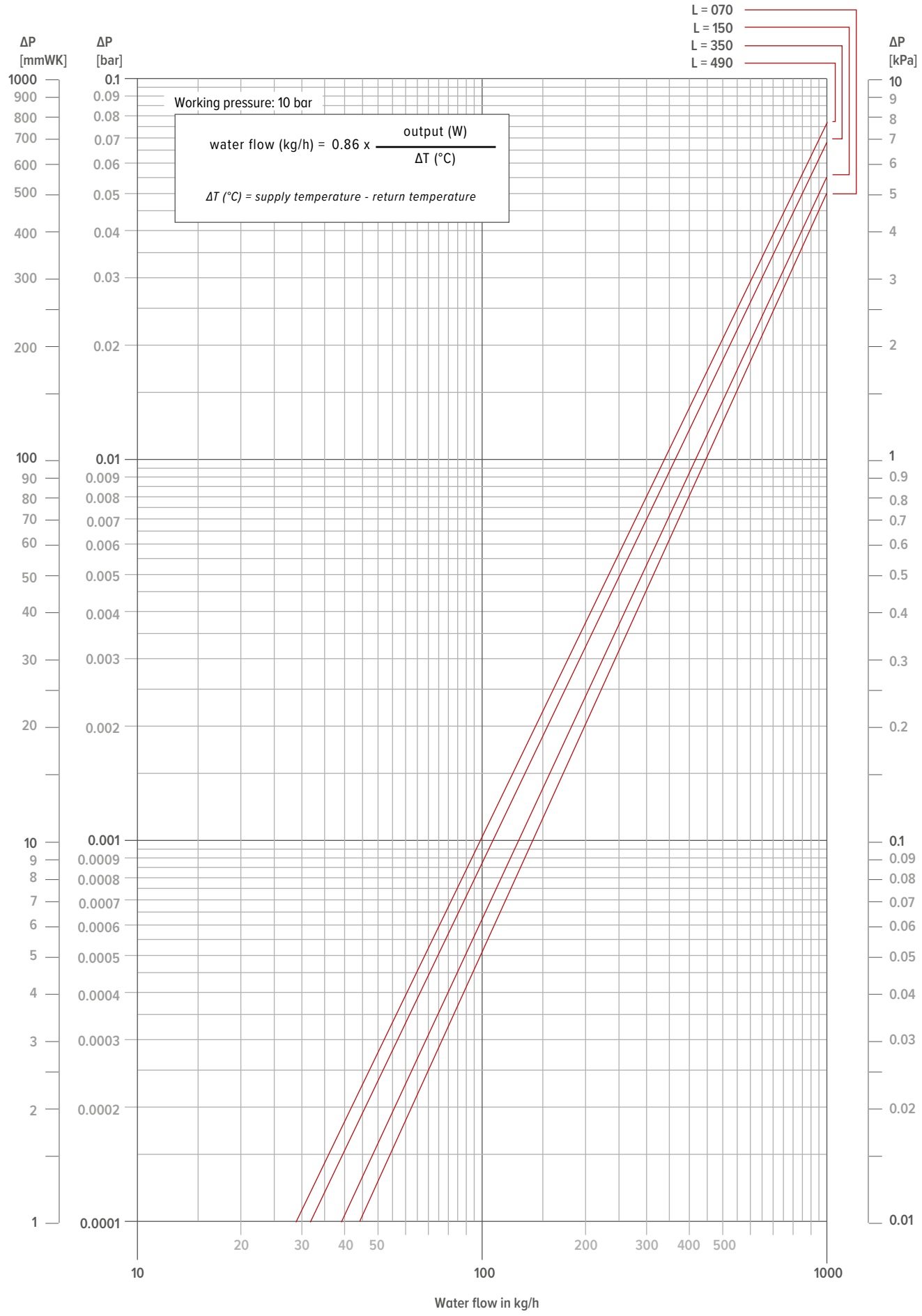
TUBE	outer Ø	Wall thick-ness	Max. water speed (EN10255)	water content per metre	max. water flow	Maximum power at ΔT (° C) (T supply - T return) ΔT 30	ΔT 20	ΔT 10	ΔT 5	ΔT 4	ΔT 3	ΔT 2
	mm	*mm*	*m/s*	*l*	*kg/h*	*Watts*	*Watts*	*Watts*	*Watts*	*Watts*	*Watts*	*Watts*
GALVANISED PIPE DIN 2440												
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

PRESSURE DROP TYPE 10

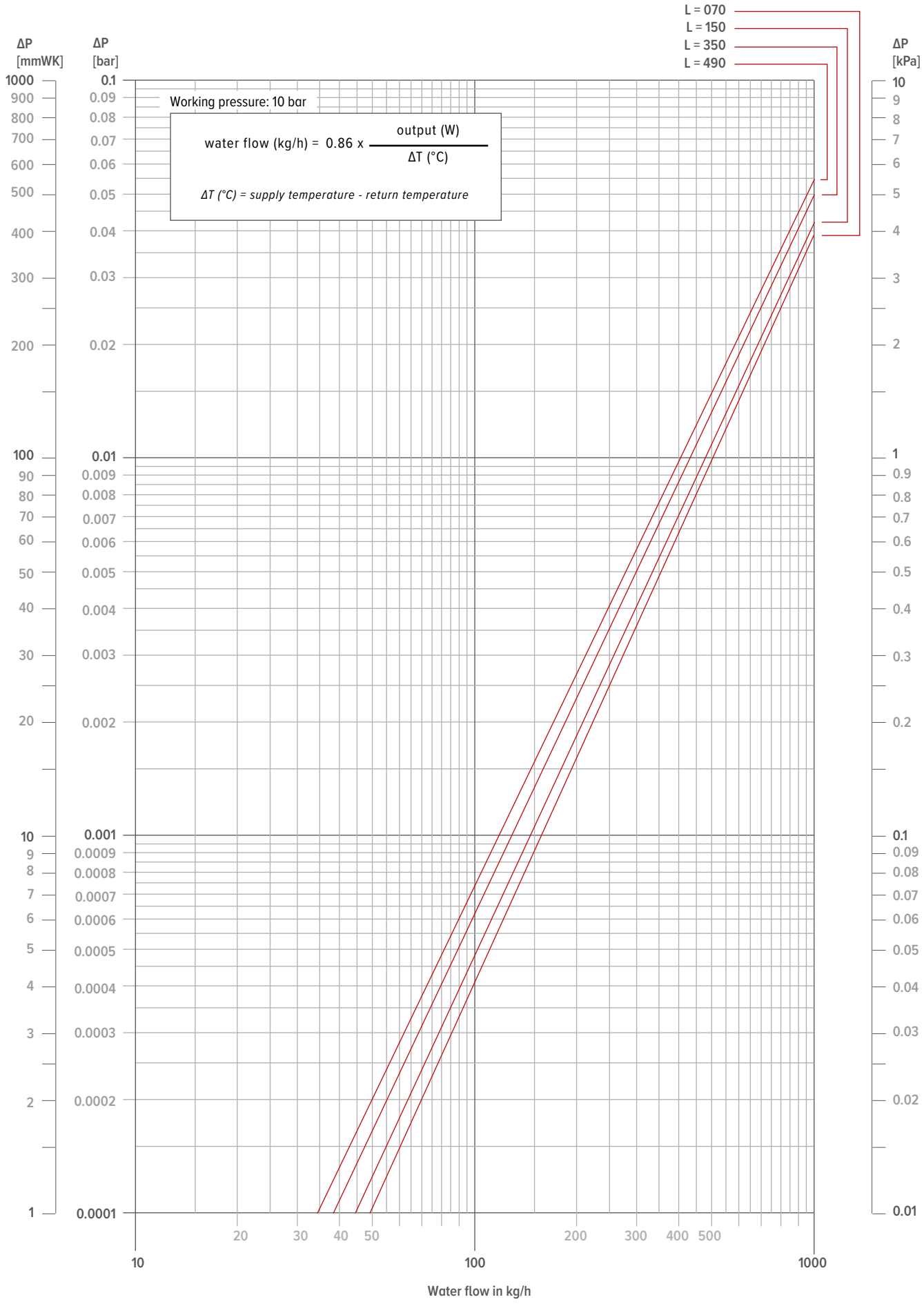


MINI CANAL HYBRID

PRESSURE DROP TYPE 15



PRESSURE DROP TYPE 20



MINI CANAL HYBRID

DEW POINT AIR BY AIR TEMPERATURE AND AIR HUMIDITY AT AIR PRESSURE 1013 HPA
LOWER LIMIT WATER TEMPERATURE 'LIGHT COOLING'

AIR TEMPERATURE (°C)	RELATIVE AIR HUMIDITY (%)					
	40	50	60	70	80	90
20	6.0	9.3	12.0	14.4	16.4	18.3
21	6.9	10.2	12.9	15.3	17.4	19.3
22	7.8	11.1	13.9	16.3	18.4	20.3
23	8.7	12.0	14.8	17.2	19.4	21.3
24	9.6	12.9	15.8	18.2	20.3	22.3
25	10.5	13.9	16.7	19.1	21.3	23.2
26	11.4	14.8	17.6	20.1	22.3	24.2
27	12.2	15.7	18.6	21.1	23.3	25.2
28	13.1	16.6	19.5	22.0	24.2	26.2
29	14.0	17.5	20.4	23.0	25.2	27.2
30	14.9	18.4	21.4	23.9	26.2	28.2
31	15.8	19.4	22.3	24.9	27.1	29.2
32	16.7	20.3	23.3	25.8	28.1	30.2
33	17.6	21.2	24.2	26.8	29.1	31.1
34	18.5	22.1	25.1	27.8	30.1	32.1
35	19.4	23.0	26.1	28.7	31.0	33.1

If a unit is not equipped with a connected condensate drain, it must be ensured that condensation does not form on the heat exchanger within the unit. This is particularly applicable to Jaga 'light cooling' units. To prevent condensation, the water temperature must be higher than the dew point of the air in which the unit operates. This table shows the minimum water temperature required for a unit to function without condensation forming.

jaga CLIMATE DESIGNERS

JAGA INTERNATIONAL JAGA NV

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

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