



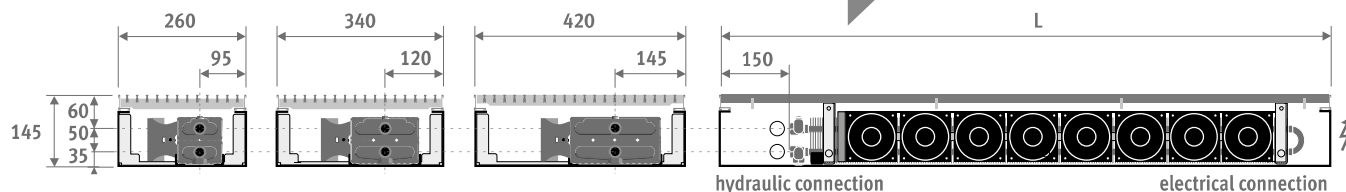
jaga

PRESENTING MINI CANAL DBE



MINI CANAL DBE - SUMMARY

PRODUCT SUMMARY



COMPOSITION

Grille

a wide range of design types and colours in anodised aluminium, various wood finishes and stainless steel

Connection options

230 V/12 V

Pre-configured and assembled Jaga Dynamic Product Controller

Control with touch operation (indication by LED's) and sensor for water temperature.

Power supply 24 VDC

Pre-mounted DBE units

Low-H₂O heat exchanger

made of copper and aluminium, made "invisible" by a dark grey lacquer (RAL 7024)

Mini duct

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

Fixing straps

number depending on the length

Easy height adjustment for uneven floors (option).

Provided with acoustic decoupling.

Frame (MDCL)

in anodised aluminium, colour to match the grille.



Cover frame (MDCZ)

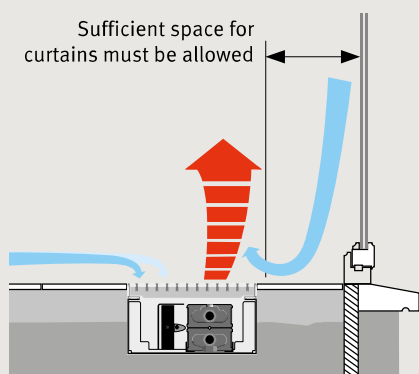
in anodised aluminium, colour to match the grille

Pre-perforated system for connections

Seals for the connection holes, made of black synthetic material

OPERATING PRINCIPLE

Sufficient space for curtains must be allowed



EVEN COMFORT TEMPERATURE

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.

! Heat exchanger always on the window side !



COMPOSITION ■ MINI CANAL DBE

ORDERING CODE

WITH FRAME (L-PROFILE)

code	height	length	width	grille
MDCL .	014	110	26	/XXX

fill in grille code

WITH COVER FRAME (Z-PROFILE)

code	height	length	width	grille
MDCZ .	014	110	26	/XXX

fill in grille code

Mini Canal is also available with a cover frame. The cover frame facilitates a perfect finish with renovations or wooden floors.

NEW

DELIVERY

Product is made to order, please contact our customer service team on 01531 631 533 to discuss your requirements.

INSTALLATION

The Mini Canal DBE is 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.

Installation

- Simple installation, with no on site assembly or joining of finned tubes.
- Position level on the finished floor using fixing straps or optional height control adjusters.
- Insert the pipework and close the opening .
- If necessary, provide an extra pipe for the thermostat head with remote control.
- Test the pressure of the installation.
- Finish the floor.

HYDRAULIC CONNECTION

- The heat exchanger has to be connected at the left side of the duct. This can be done in several ways:
- to the central control system, temperature regulators via room thermostat or BMS (no valve in the duct).
- with manual valve in the duct.
- with thermostatic valve in the duct: in this case it is best to provide a head with remote control outside the duct. Control is simple and the thermostat will provide better measurement of the ambient temperature.

STANDARD ASSEMBLED JAGA DYNAMIC PRODUCT CONTROLLER (JDPC)

Multifunctional controller for dynamic heating and cooling devices provided with one or more built-in fans. The Jaga Dynamic Product Controller is preconfigured and assembled inside the device.

- indication of operating mode by LEDs
 - control with touch operation and sensor for water temperature, preconfigured and assembled by Jaga
 - power supply 12 VDC
 - ventilator settings:
 - o summer mode
 - o heating: 3 speeds (operates at water temperature >28°C, can easily be modified)
 - 0-10 V input for building management system/thermostats / DPC.MD71
- For more information contact Jaga*
Phone: 011531 631 533
Email: jaga@jaga.co.uk
Website: www.jaga.co.uk



Touch operation

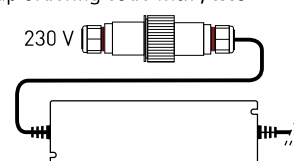
Product controller

ELECTRIC CONNECTION

Connection always at the right side of de duct

Option VAC:

for connection to 230 VAC with waterproof power and cable gland in the duct. Fill up ordering code with /VAC

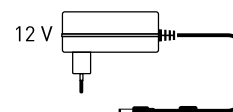


CODE

MDCL.HHH LLL BB/XXX/VAC

Option VDC:

Plug-in wall power supply 230 VAC/12VDC. Fill up ordering code with /VDC



CODE

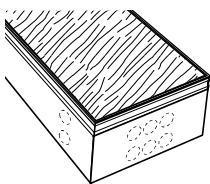
MDCL.HHH LLL BB/XXX/VDC

VALVES

See page 96.

MINI CANAL DBE - OPTIONS

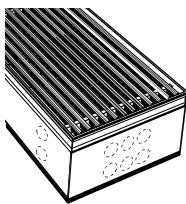
COVER PLATE



In fibreboard, thickness 22 mm. Protects the duct against contamination and damage during construction works.

	code	length	width
ORDERING CODE	7691.000	110	026

BASE INSULATION

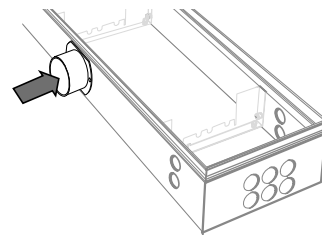


In dark grey extruded EPDM, thickness 5 mm. Also to avoid transfer of noise when used on upper storeys. (Not available separately!)

	code	length	width
ORDERING CODE	7692.000	110	026

AIR REFRESHMENT

Mounted spigot connector for air supply channel



CODE

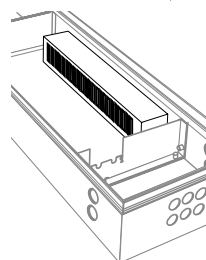
/V1	1 spigot connection ø 80 mm
/V2	2 spigot connections ø 80 mm

Add /V1 or /V2 to the Mini Canal code.

Example: MDCL 014 110 26 /XXX /V1

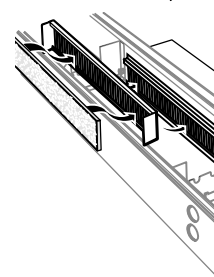
Other systems

Air refreshment system 2



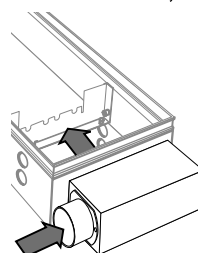
internal air supply collector

Air refreshment system 3



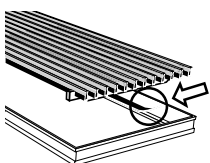
exterior air supply collector

Air refreshment system 4



air supply collector at headpiece

CONTACT STRIP



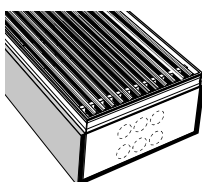
For aluminium and wood grilles (not for stainless steel). Black adhesive rubber strip, thickness 0.5 mm. To avoid contact noises. Order

the number of rolls required according to the circumference of the frame: $(B + L) \times 2$.

CODE

7690.02	Roll 6 metre
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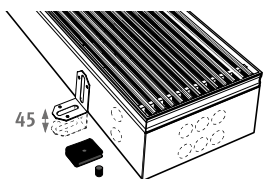
3-SIDED INSULATION



In dark grey extruded EPDM, thickness 5 mm. (Not available separately!)

	code	height	length	width
ORDERING CODE	7693.014	110	026	

HEIGHT CONTROL



Simple height control for uneven sub-floors. Provided with acoustic decoupling.

CODE

7690.01	height control	0 - 45 mm
7690.04	height control	45 - 130 mm

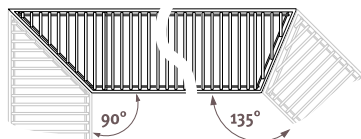
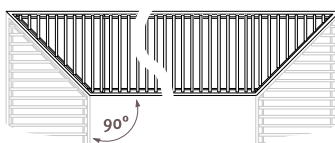
Recommended numbers for length:

1 set =	1100 mm	2 kits
	1300 > 1900 mm	3 kits
	2100 mm	4 kits
	2300 > 3100 mm	5 kits



CORNERS 135° OR 90°

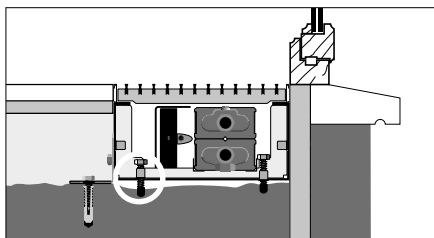
For wooden and aluminium grilles.



To order corner elements, please contact Jaga at: jaga@jaga.co.uk. Ducts and grilles delivered with mitre joints + connecting pieces for invisible mounting.

DIFFERENT HEIGHT, WIDTH OR LENGTH

Contact Jaga.



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

For more information see:
www.jaga.co.uk

HEIGHT 140 - OUTPUT TABLES

Outputs in **medium mode**.
Other speeds: see www.jaga.co.uk
Grille codes: see overview p. 70

DIMENSIONS (in mm)

MDCLHHH LLL TT.XXX

	B 260			B 340			B 420		
L	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts
mm	75/65	55/45	35/30	75/65	55/45	35/30	75/65	55/45	35/30
1100	1505	847	316	1944	1107	421	2279	1299	496
1300	1949	1097	410	2519	1434	546	2953	1684	643
1500	2379	1339	500	3076	1751	667	3607	2056	785
1700	2802	1577	589	3622	2062	785	4249	2423	925
1900	3228	1817	679	4171	2374	904	4897	2792	1066
2100	3285	1849	691	4247	2417	920	4990	2845	1086
2300	3658	2059	769	4772	2716	1034	5609	3198	1221
2500	4095	2305	861	5287	3009	1146	6217	3544	1353
2700	4491	2528	944	5794	3298	1256	6816	3886	1483
2900	4881	2748	1026	6295	3583	1364	7407	4223	1612
3100	5272	2968	1108	6793	3867	1472	7997	4559	1740

Output at 20°C room temperature.

TECHNICAL DATA

	ACTIVATORS	SOUND PRESSURE*			RATED INPUT			AIR FLOW		
L	Number	max.*	dB(A) med.*	min.*	max.	Watts med.	min.	max.	m³/h med.	min.
1100	6	35.7	30.0	26.0	11.0	9.4	8.4	230	190	166
1300	8	37.0	30.0	26.0	14.7	12.0	10.8	306	242	212
1500	10	38.0	30.0	26.0	18.3	14.6	13.2	383	293	257
1700	12	38.8	30.0	26.0	22.0	17.2	15.5	460	343	301
1900	14	39.4	30.0	26.0	25.7	19.7	17.8	536	391	343
2100	14	39.4	30.0	26.0	25.7	19.7	17.8	536	391	343
2300	16	40.0	30.0	26.0	29.3	22.2	20.0	613	438	385
2500	18	40.5	30.0	26.0	33.0	24.6	22.2	689	485	426
2700	20	41.0	30.0	26.0	36.7	27.0	24.4	766	531	467
2900	22	38.1	30.0	26.0	36.8	29.4	26.5	757	576	506
3100	24	35.0	30.0	26.0	36.4	31.8	28.7	733	621	546

* Noise measurement according to ISO 3741:2010 with an assumed room attenuation of 8 dB(A) / room volume 75 m³ / reverberation time 0.5 sec.
Correction factors & pressure drop: see "Technical info" chapter

Tested at HLK Stuttgart according to new standard EN 16430:2015