

# MINI CANAL DBE

Dimensions & heat output

AUDI MEMBER EN 442

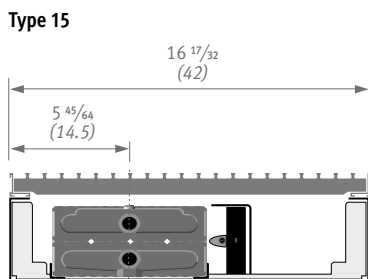
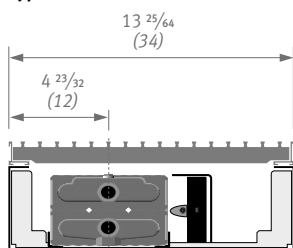
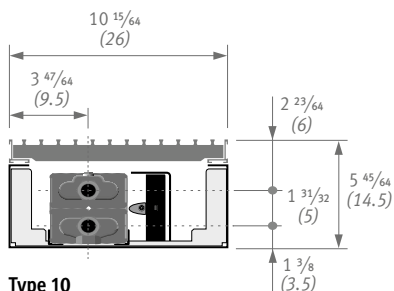
LOW H<sub>2</sub>O

30 YEAR FINISH GUARANTEE

## DIMENSIONS



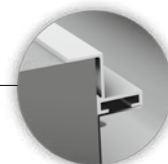
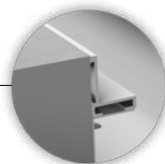
Building-in opening:  
height  $H + 2\frac{5}{64}$ " (1 cm)!



## COMPOSITION

L-frame

Z-frame



**L-frame or Z-frame**  
in anodized aluminum.  
color to match the grille.

**Cover strip** in black rubber (option).  
Makes the bottom side of the frame  
invisible and avoids contact noises.

**Grille**  
a wide range of design  
types and colors in  
anodized aluminum or  
various wood finishes.

**DBE-units**

**Low-H<sub>2</sub>O fin tube element**  
made of copper and aluminum,  
made "invisible" by a dark grey  
dust repellent lacquer  
(RAL 7024).

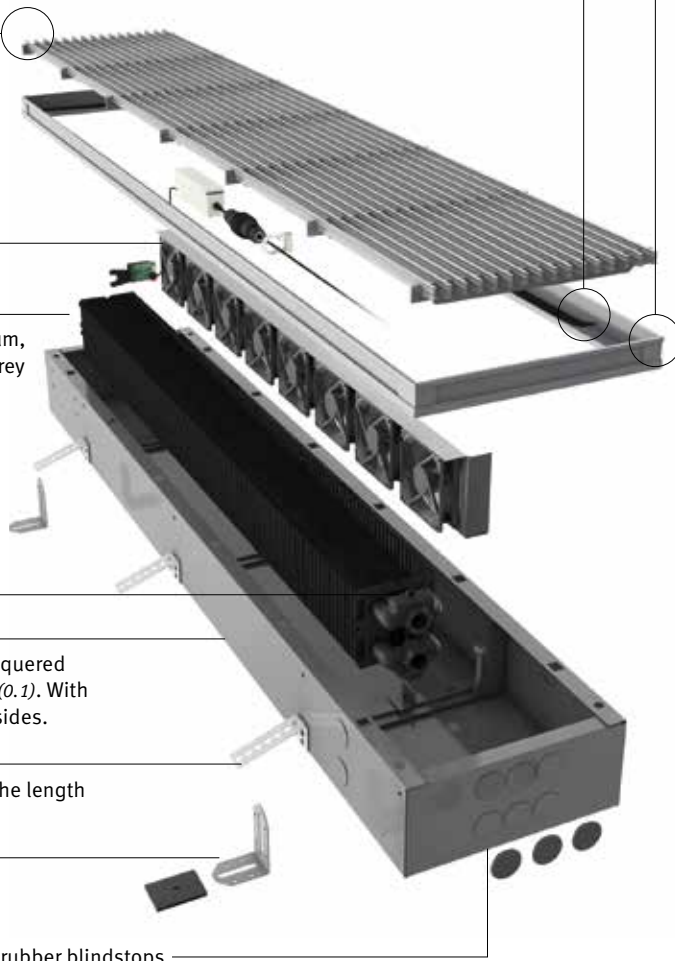
**Air vent**

**Mini trench**  
galvanized and dark grey lacquered  
steel plate; thickness 0.04" (0.1). With  
connection openings on all sides.

**Anchorage elements**  
number in accordance with the length

**Height control** (option)

**Connection openings** with 3 rubber blindstops



Note: dimensions in "( )"  
are shown in centimeters.

The information in this technical brochure is correct at the time of printing. Jaga reserves the right to change product specification at any time in line with our policy of continuous improvement and innovation.

## INSTALLATION

The Mini Canal DBE 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.

- Level the unit with the finished floor.
- Fix the unit in position with the anchoring irons or optional height controls.
- Supply and return pipes via connection openings.
- Connect finned tube elements to supply/return pipes.
- Provide 12VDC to DBE circuit board.
- If necessary, provide an extra pipe for the thermostat head with remote control.
- Test the pressure of the installation.
- Finish the floor.

## ELECTRIC CONNECTION

Standard delivery with plug in wall power supply 110-240 VAC/ 12VDC.

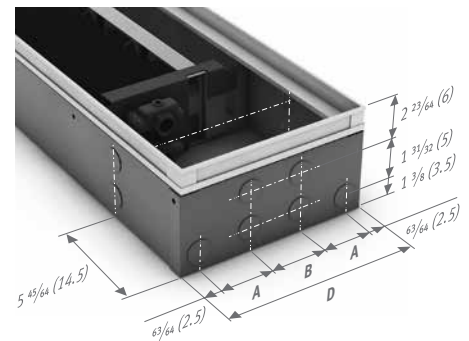
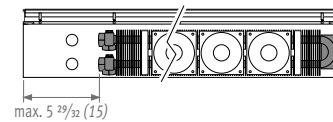
On request - without surcharge: clamp connector for 12 VDC supply to the control board.

## HYDRAULIC CONNECTION

There are several ways to connect the fin tube element.

- with electric zone valves 24 VDC on the central collector. Temperature control via room thermostat (no valve in the trench).
- with manual valve in the trench.
- with thermostatic valve in the trench: use a Jaga connection set with remote controlled thermostatic head. Control is simple and the thermostat will provide better measurement of the ambient temperature.

### Maximum space for connection



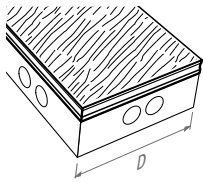
	D	A	B
10" (26)	6.8	7.4	
13.5" (34)	9.3	10.4	
16.5" (42)	11.8	13.4	

### Remote controlled TRV



## OPTIONS

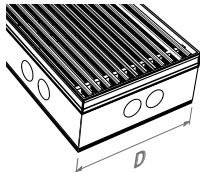
### Cover plate



In fibreboard, thickness  $\frac{5}{64}$ " (22 mm). Protects the trench against contamination and damaging during construction works.

### Bottom end insulation

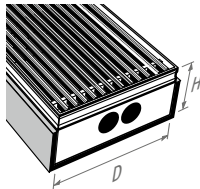
(Not separately deliverable!)



In dark grey polyethylene foam, thickness  $\frac{13}{64}$ " (5 mm). Also to avoid transfer of noise when used on upper storeys.

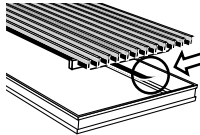
### 3-Sided insulation

(Not separately deliverable!)



In dark grey polyethylene foam, thickness  $\frac{13}{64}$ " (5 mm).

### Cover strip



Black adhesive rubber strip, thickness  $\frac{1}{32}$ " (1 mm). To hide the bottom edge of the frame and to avoid contact noises.

Order the number of rolls required according to circumference of the frame (width plus length) x 2.

Do not use with Pebbles grille.

### Different length, height and width

On request.

### Corners 135° or 90°

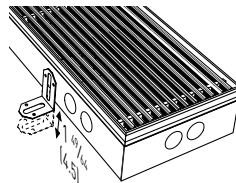
For wooden and aluminium grilles. Not possible with Accordion or Pebbles grille.

On request.

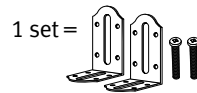
### On request - without surcharge:

clamp connector for 12 VDC supply to the control board instead of the standard delivery with plug in wall power supply 110-240 VAC/12VDC.

### Height control



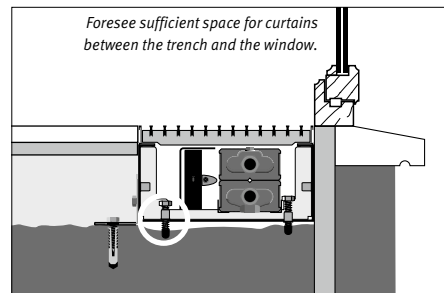
Simple height control for uneven subfloors.



1 set = Available heights:  
 - 0 > 1  $\frac{49}{64}$  (0 - 4.5 cm)  
 - 1  $\frac{49}{64}$  > 5  $\frac{1}{8}$  (4.5 - 13 cm)

### Advised numbers for length:

43 $\frac{5}{16}$ + 47 $\frac{1}{4}$	(110 + 120 cm)	2 sets
51 $\frac{3}{16}$ > 74 $\frac{51}{64}$	(130 > 190 cm)	3 sets
82 $\frac{43}{64}$	(210 cm)	4 sets
90 $\frac{35}{64}$ > 122 $\frac{3}{64}$	(230 > 310 cm)	5 sets



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

## TECHNICAL INFO

### Sound pressure

Length	Sound pressure in db(A) at 79" (2 m)		
	Speed: 65%*	Speed: 70%	Speed: 75%*
110	23.1	24.3	25.9
130	24.3	25.6	27.2
150	24.3	25.6	27.2
170	25.3	26.5	28.1
190	26.1	27.3	28.9
210	26.7	28.0	29.6
230	27.3	28.6	30.2
250	27.8	29.1	30.7
270	28.3	29.5	31.1
290	28.3	29.5	31.1
310	28.7	29.9	31.5

- Reverberation time 0.6 sec.
- Reference room size 120 m<sup>3</sup>

Output deviation with respect to speed 70%

- speed 65% = -4% output
- speed 75% = +3% output

# OUTPUT MINI CANAL DBE

ORDER CODE COMPLETE TRENCH WITH

	code	height	length	width	frame
L-FRAME:	MDCL	014	110	26	/XXX
Z-FRAME:	MDCZ	014	110	26	/XXX

ORDER CODE GRILLE:

	code	width	grill	length
GRIL:	24.8	XXX	108.8	

mean T °F (°C)	H	D	L trench	43.5"	51"	59"	67"	75"	82.5"	90.5"	98.5"	106.5"	114"	122"
			(110)	(130)	(150)	(170)	(190)	(210)	(230)	(250)	(270)	(290)	(310)	
170 (76.7)	5.5"	10"	4403	4752	6599	8454	8803	10654	11003	12854	13207	15054	16909	
160 (71.1)	(014)	(26)	3932	4244	5893	7550	7862	9515	9826	11479	11795	13444	15101	
130 (54.4)			2561	2764	3838	4917	5120	6197	6400	7476	7681	8756	9834	
110 (43.3)			1690	1824	2533	3245	3379	4089	4223	4934	5070	5778	6490	
170 (76.7)	13.5"		5722	6197	8584	10967	11445	13828	14307	16690	17164	19551	21934	
160 (71.1)	(34)		5111	5535	7666	9794	10222	12349	12777	14905	15329	17460	19588	
130 (54.4)			3328	3604	4993	6378	6657	8043	8321	9707	9983	11371	12757	
110 (43.3)			2196	2379	3295	4209	4393	5308	5492	6406	6589	7505	8419	
170 (76.7)	16.5"		7277	7922	10918	13913	14559	17554	18195	21195	21836	24832	27831	
160 (71.1)	(42)		6499	7075	9750	12425	13002	15677	16250	18928	19501	22176	24855	
130 (54.4)			4232	4608	6350	8092	8468	10210	10583	12327	12700	14443	16187	
110 (43.3)			2793	3041	4191	5341	5588	6738	6984	8136	8382	9532	10683	

BTU/hr with 65°F (18.3°C) entering air and 1 GPM flow rate.

Correction factor Pebbels grille (PNC): 0.85 / Accordion grille (ANA): 0.75

## Colour frame

- FNA = aluminium natural
- FBL = aluminium black
- FDB = aluminium dark brown
- FBR = aluminium brass

## Grille codes

### Rigid grilles

- DNA Designo aluminium natural coloured
- DBL Designo black
- DDB Designo dark brown
- DBR Designo aluminium brass coloured
- DNC Designo aluminium lacquered
- PNC Pebbles cast aluminium (Correction factor 0.85)

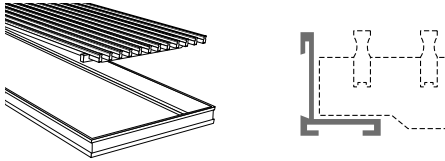
### Roll-up grilles

- DMN Designo merbau natural
- DON Designo oak natural
- DBN Designo beech natural
- DMV Designo merbau varnished
- DOV Designo oak varnished
- DBV Designo beech varnished
- RNA Aluminium natural coloured
- RBL Aluminium black
- RDB Aluminium dark brown
- RBR Aluminium brass coloured
- ANA Accordion aluminium natural coloured (Correction factor 0.75)

## FRAME POSSIBILITIES

### L-frame (order code MDCL)

The L-profile is almost invisible after the installation. In anodized aluminium, colored to match the grill.



### Z-frame (order code MDCZ)

The cover frame allows a perfect finish with renovations or wooden floors.

