



BMC circular duct grilles

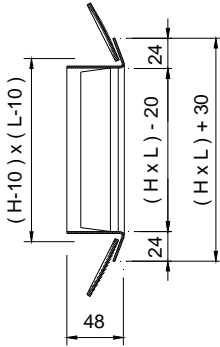


MADEL®

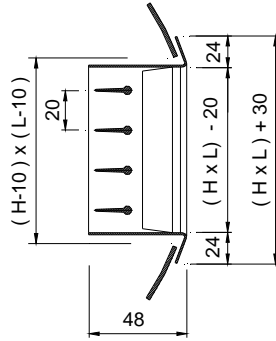
The **BMC** series grilles are designed to be used in air-conditioning, ventilation, and heating.

The grilles are placed directly in circular ducts. The direction of the blades can be altered, making it possible to graduate the extent, the height and the width of the air stream.

BMC

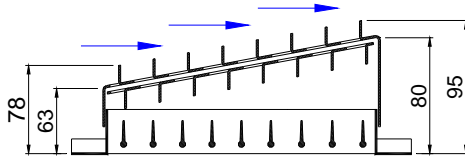


CMC

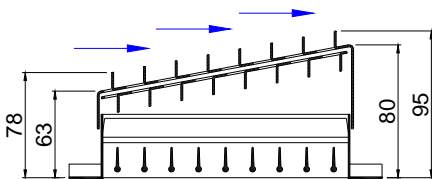


Dia conducto Dia Duct	H
200 - 400	75
300 - 900	125
600 -1600	225

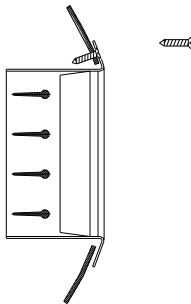
BMC+SD



CMC+SD



(T)



CLASSIFICATION

BMC Single deflection grille.

CMC Double deflection grille.

MATERIAL

Grilles constructed in galvanised steel.
All the grilles are provided with a seal on the back of the frame in order that the perimeter in contact is airtight.

ADDITIONAL ACCESSORIES

SD Damper (angled slide cover) for the air flow.
Operated by sliding plates with superimposed windows.

FIXING SYSTEMS

(T) Visible screws.

FINISHES

M9006 Painted in grey similar to RAL 9006.

M9016 Painted in white similar to RAL 9016.

R9010 Painted in white RAL 9010.

RAL... Painted in other RAL.

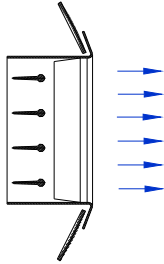
SPECIFICATION TEXT

Supply and mounting of double deflection grille for circular ducts with individually adjustable blades and 1st line parallels to the shortest side series **CMC+SD (T) M9006 dim. LxH**, constructed from galvanised steel paint in grey **M9006** with flap damper from steel **SD**, visible fixing by screws **(T)**. Manufacturer **MADEL**.

BMC

FREE FACE AREA m².

H \ L	400	500	600
75	0,016	0,020	0,025
125	0,031	0,039	0,047
225	0,060	0,076	0,087



FREE VELOCITY, PRESSURE LOSS AND SOUND POWER LEVEL.

V_f (m/s)

RECOMMENDED VELOCITY.

V _{min} m/s	V _{max} m/s
2	4

Determination of air flow.
Measuring the V_f in different points
of the grille, we find the V_{fmed}.

$$Q \text{ (l/s)} = V_{fmed} \text{ (m/s)} \cdot A_{free} \text{ (m}^2) \cdot 1000$$

$$Q \text{ (m}^3\text{/h)} = V_{fmed} \text{ (m/s)} \cdot A_{free} \text{ (m}^2) \cdot 3600$$

CORRECTION FACTOR FOR L_{wa1}.

A _{free} m ²	0,01	0,02	0,05
L _{wa1} (kf)	-9	-6	-3

Weighted noise level related to
A_{free} = 0,1m².

$$L_{wa} = L_{wa1} + K_f$$

CORRECTION FACTOR OF PRESSURE LOSS FOR
DIFFERENT BLADES POSITIONS.

	0°	22°	45°
K _p	1	1,28	1,4

$$DPT' = Dpt \times K_p$$

