



Serie **M-PVC**



MOVABLE-BLADE
GRILLE MADE OF PVC



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MOVABLE-BLADE GRILLE SERIES M-PVC



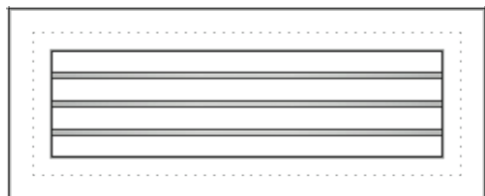
DESCRIPCION GENERAL

The **M-PVC** Series movable-blade grilles are designed for air supply and return in ventilation and HVAC systems where high environmental durability is required. Manufactured entirely from high-strength thermoplastic (**PVC**), they stand out for their excellent corrosion resistance and are impervious to chemical and salt degradation, as well as to extremely humid environments.

It is non-flammable and self-extinguishing. Thanks to the material's low thermal conductivity, it provides an active anti-condensation barrier, preventing surface condensation and moisture buildup without the need for additional insulation. It combines an aerodynamic, low-drag design with a durable surface finish that remains unchanged over time and is easy to maintain.

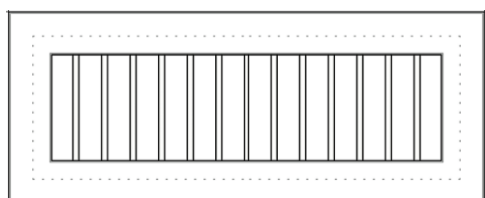
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MODELOS



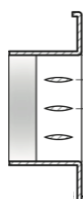
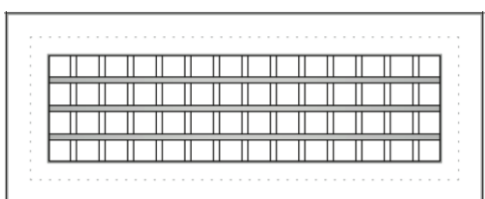
M10-PVC

Movable-blade grille, single deflection.
Horizontal blades. Made of PVC.



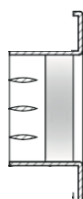
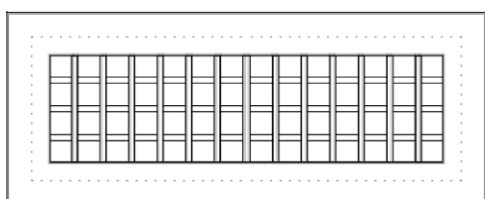
M11-PVC

Movable-blade grille, single deflection.
Vertical blades. Made of PVC.



M20-PVC

Movable-blade grille, dual deflection (1st deflection: horizontal; 2nd deflection: vertical). Made of PVC.

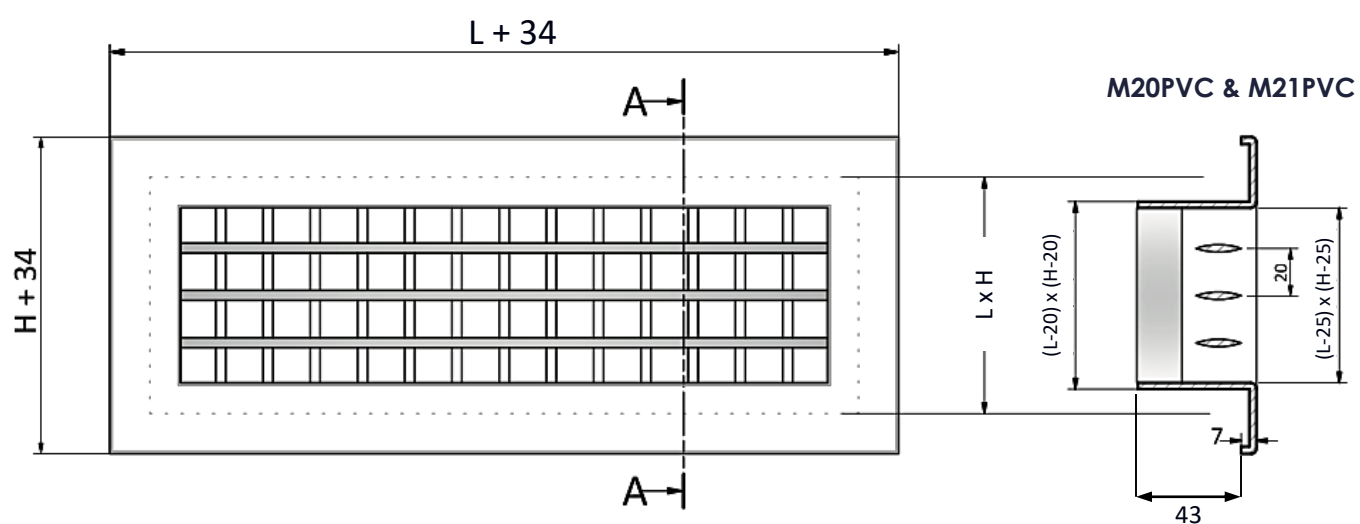
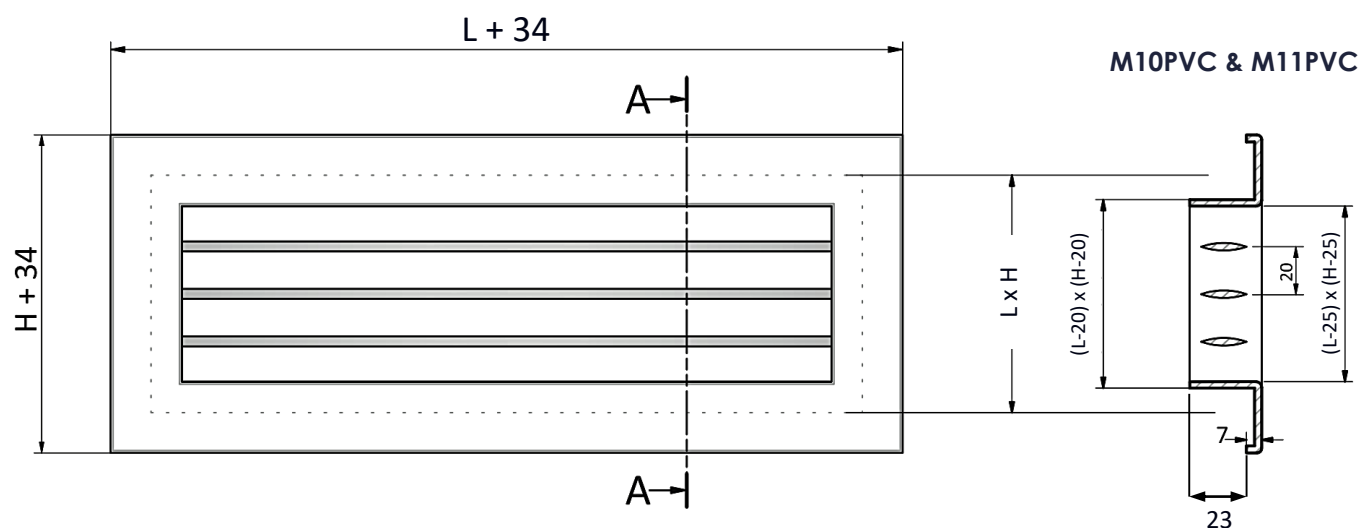


M21-PVC

Movable-blade grille, dual deflection (1st deflection: vertical; 2nd deflection: horizontal). Made of PVC.

MOVABLE-BLADE GRILLE SERIES M-PVC

DIMENSIONS



$L \times H \rightarrow$ Nominal = Hole size

MOVABLE-BLADE GRILLE SERIES M-PVC

FEATURES

- **Material:** anti-condensation PVC.
- **Extinction level:** Class V0.
- **Optimal Temperatures:** -30°C / +60°C
- **Fixing system:** Clips, drills/screws, magnets.

ACCESSORIES

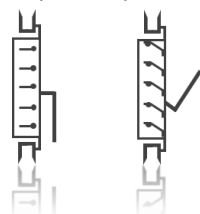
- **Damper** "-S/01".
- **Mounting frame** "-C/01".
- **Plenum box:** "EP/01" made of **polycarbonate** or **PVC** (VMAD adapters compatible with sizes of 200/300/400 x 100 mm).

FINISH

- With the **PVC RAL 9010**.

FLOW MEASUREMENT

$$\text{m}^3/\text{h} = \text{m/s} \times \text{m}^2 \times 3.600$$



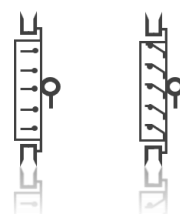
Using a Pitot tube:

Measurements must be taken at various points on the grille; the arithmetic mean of all these measurements allows us to determine the effective suction velocity.

Using anemometer:

You must move it across the entire surface of the grille to determine the suction velocity.

$$\text{m}^3/\text{h} = \text{m/s} \times \text{m}^2 \times 3.600$$



MOVABLE-BLADE GRILLE SERIES M-PVC

QUICK SELECTION TABLE

Models: M10 & M11	Size L x H (mm)	Afree (m2)	Flow (m3/h)	Flow (m3/h)	Flow (m3/h)	Flow (m3/h)	Flow (m3/h)
			V = 1 m/s Pd = 2 Pa	V = 2 m/s Pd = 4 Pa	V = 2.5 m/s Pd = 7 Pa	V = 3 m/s Pd = 9 Pa	V = 4 m/s Pd = 15 Pa
M_200x100	200x100	0.0130	47	94	117	140	187
M_300x100	300x100	0.0210	76	151	189	227	302
M_400x100	400x100	0.0280	101	202	252	302	403
M_500x100	500x100	0.0350	126	252	315	378	504
M_600x100	600x100	0.0430	155	310	387	464	619
M_300x150	300x150	0.0330	119	238	297	356	475
M_400x150	400x150	0.0450	162	324	405	486	648
M_500x150	500x150	0.0570	205	410	513	616	821
M_600x150	600x150	0.0690	248	497	621	745	994
M_700x150	700x150	0.0810	292	583	729	875	1166
M_800x150	800x150	0.0930	335	670	837	1004	1339
M_200x200	200x200	0.0300	108	216	270	324	432
M_300x200	300x200	0.0470	169	338	423	508	677
M_400x200	400x200	0.0640	230	461	567	691	922
M_500x200	500x200	0.0810	292	583	729	875	1166
M_600x200	600x200	0.0980	353	706	882	1058	1411
M_700x200	700x200	0.1150	414	828	1035	1242	1656
M_800x200	800x200	0.1320	475	950	1188	1426	1901
M_1000x200	1000x200	0.1660	598	1195	1494	1793	2390
M_300x300	300x300	0.0730	263	526	657	788	1051
M_400x300	400x300	0.1000	360	720	900	1080	1440
M_500x300	500x300	0.1260	454	907	1134	1361	1814
M_600x300	600x300	0.1530	551	1102	1377	1652	2203
M_800x300	800x300	0.2060	742	1483	1854	2225	2966
M_1000x300	1000x300	0.2590	932	1865	2331	2797	3730
M_400x400	400x400	0.1360	490	979	1224	1469	1958
M_600x400	600x400	0.2080	749	1498	1872	2246	2995
M_800x400	800x400	0.2800	1008	2016	2528	3024	4032
M_1000x400	1000x400	0.3530	1271	2542	3177	3812	5083

Sound Level dB(A):

Para V=1 m/s → <10 dB(A) (in rooms equipped with HRV systems).

Para V=2 m/s → 10 - 15 dB(A) (concert halls, libraries).

Para V=2.5 m/s → 15 - 20 dB(A) (apartments, hotel rooms, hospital rooms).

Para V=3 m/s → 20 - 25 dB(A) (hotel room, radio studios).

Para V=4 m/s → 30 - 35 dB(A) (offices, restaurants).

*V = Air speed.

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SET DE IMANES

Magnet Set (on request): The magnetic fastening system is ideal when regular maintenance is required. The magnets come pre-installed on the grille, and the number of magnets depends on the grille's nominal size.

NOMINAL L x H			
200x100	600x100	800x150	1000x200
300x100	600x150	800x200	1000x300
400x100	700x150	800x300	1000x400
500x100	500x200	800x400	
300x150	600x200		
400x150	700x200		
500x150	500x300		
200x200	600x300		
300x200	600x400		
400x200			
300x300			
400x300			
400x400			

8 magnets

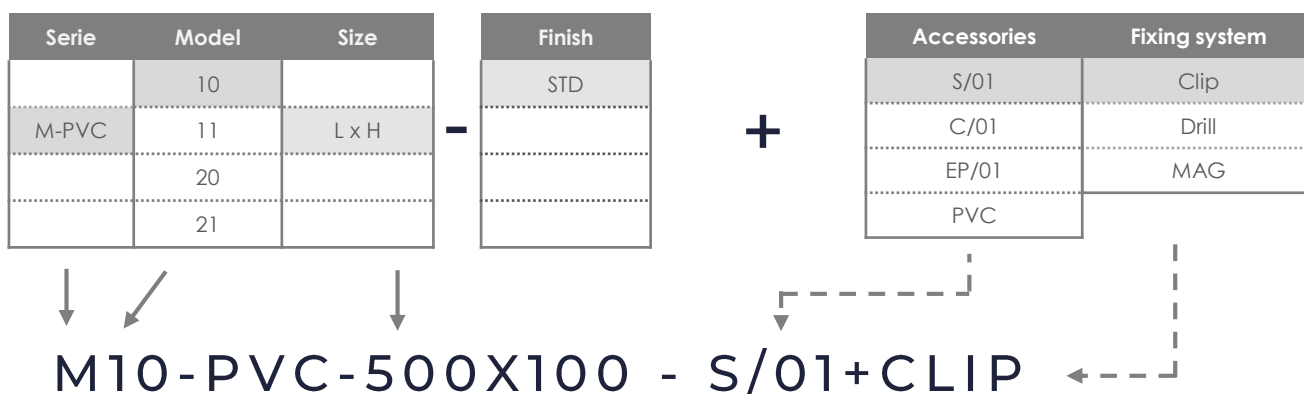
6 magnets

4 magnets

10 magnets

MOVABLE-BLADE GRILLE SERIES M-PVC

GRAPHIC DESCRIPTION



SERIE

- M-PVC: Movable-blade PVC grille.

MODEL

- M10-PVC: Horizontal movable-blade PVC grille.

SIZE (mm)

- L x H: 500 x 100 mm.

FINISH

- STD: White RAL 9010 (standard).

ACCESSORIES (optional)

- S/01: Damper.

FIXING SYSTEM (optional)

- Clip: Clips for fastening.

Order example: M10-PVC 500x100 – S/01 + CLIP

- To order a 500x100 mm PVC horizontal movable-blades grille with flow control damper and mounting clips, you should request:

Order	Description
1 Grille M10-PVC 500x100	500x100 mm PVC horizontal movable-blades grille.
1 Damper S/01	Flow control damper.
1 CLIP system	Clips for fastening.

Order example: M10-PVC 400x200 – MAG

- To order a 400x200 mm PVC horizontal movable-blades grille with magnets, you should request:

Order	Description
1 Grille M10-PVC 400x200	400x200 mm PVC horizontal movable-blades grille.
1 MAG system	Set of magnets for fastening.



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