



Serie **F-PVC**



45° FIXED-BLADES MADE
OF PVC



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45° FIXED-BLADES GRILLE SERIES F-PVC

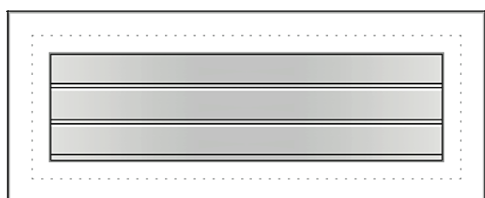


GENERAL DESCRIPTION

The **F-PVC** Series grilles are designed for air return in **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.

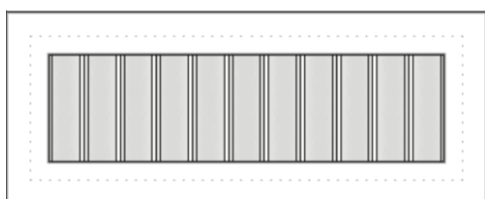
It is non-flammable and self-extinguishing. Thanks to the material's low thermal conductivity, it provides an active anti-condensation barrier, preventing surface condensation and moisture buildup without the need for additional insulation. It combines an aerodynamic, low-drag design with a durable surface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

MODELS



F10-PVC

Fixed blade grille with a 45° angle.
Horizontal blades. Made of PVC.

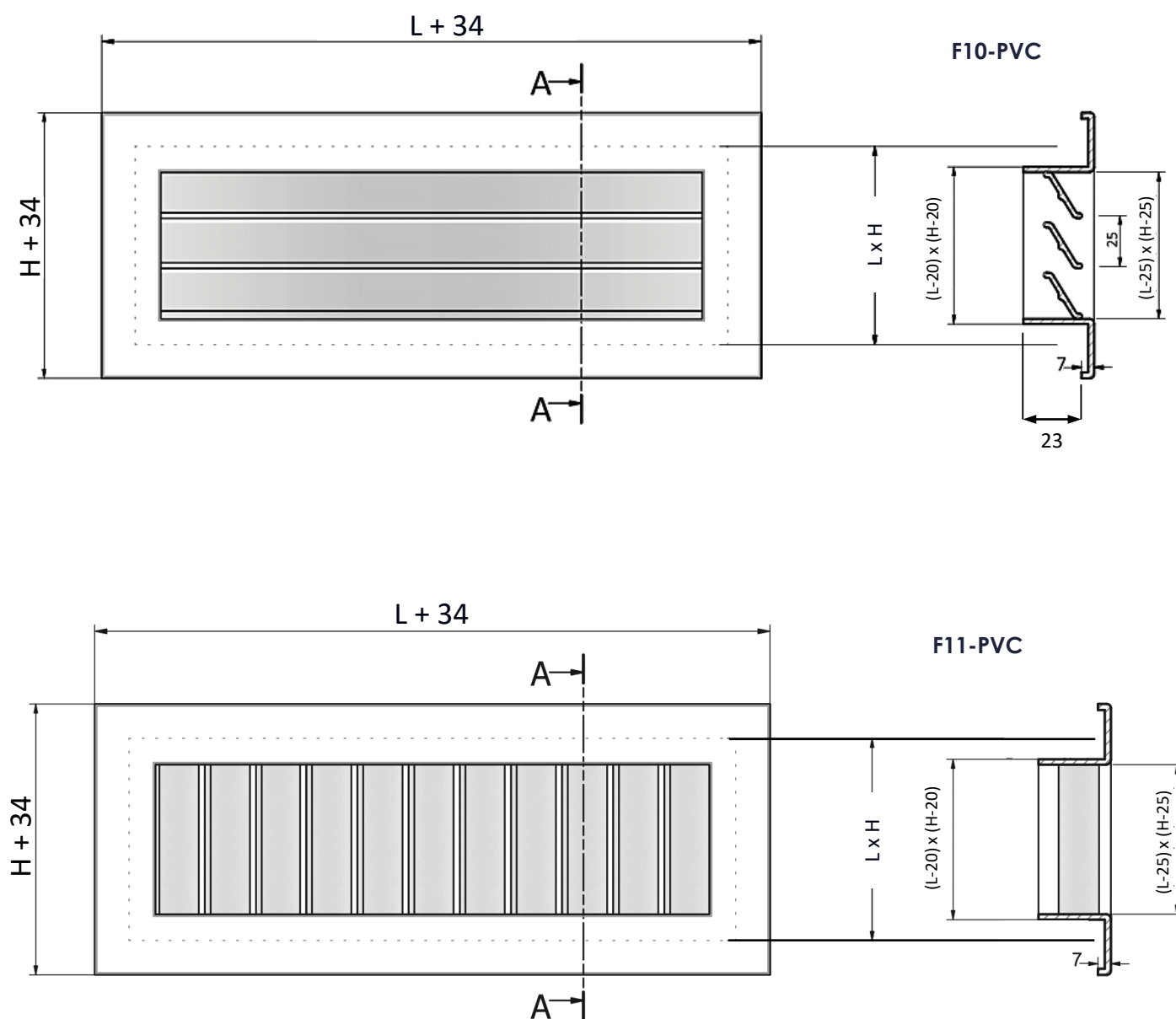


F11-PVC

Fixed blade grille with a 45° angle.
Vertical blades. Made of PVC.

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DIMENSIONS



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

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FEATURES

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

ACCESSORIES

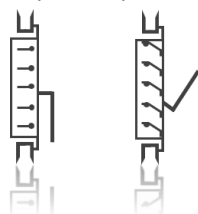
- **Flow damper** “-S/01”.
- **Mounting frame** “-C/01”.
- **Plenum box serie** “-EP/01” **or PVC plenum** (for sizes 200/300/400 x 100 mm, compatible with **VMAD** adapters).

FINISH

- **PVC grille in white RAL 9010.**

FLOW MEASUREMENT

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



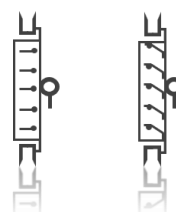
Using a Pitot tube:

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

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



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QUICK SELECTION TABLE

			Flow (m3/h)	Flow (m3/h)	Flow (m3/h)	Flow (m3/h)	Flow (m3/h)
Models: F10 & F11	Hole L x H (mm)	Afree (m2)	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 = 10 Pa	V = 4 m/s Pd = 17 Pa
F_200x100	200x100	0.0040	15	30	37	44	53
F_300x100	300x100	0.0055	21	42	52	63	84
F_400x100	400x100	0.0085	28	57	71	85	114
F_500x100	500x100	0.0095	36	72	90	108	144
F_600x100	600x100	0.0115	44	88	109	131	174
F_800x100	800x100	0.0155	59	117	147	176	235
F_300x150	300x150	0.0110	42	84	104	126	167
F_400x150	400x150	0.0150	57	114	142	171	228
F_500x150	500x150	0.0200	72	144	180	216	288
F_600x150	600x150	0.0240	87	174	218	261	348
F_700x150	700x150	0.0280	102	204	256	307	409
F_800x150	800x150	0.0330	117	235	293	352	469
F_200x200	200x200	0.0110	42	84	109	126	168
F_300x200	300x200	0.0175	63	125	157	188	251
F_400x200	400x200	0.0240	85	171	213	256	341
F_500x200	500x200	0.0300	108	216	270	324	432
F_600x200	600x200	0.0360	131	261	327	392	523
F_700x200	700x200	0.0430	153	307	383	460	613
F_800x200	800x200	0.0490	176	352	440	528	704
F_1000x200	1000x200	0.0615	221	445	554	664	886
F_300x300	300x300	0.0290	104	208	261	312	416
F_400x300	400x300	0.0400	142	284	355	426	567
F_500x300	500x300	0.0555	180	359	449	539	719
F_600x300	600x300	0.0605	217	435	544	652	870
F_800x300	800x300	0.0815	293	586	733	879	1172
F_1000x300	1000x300	0.1025	369	737	922	1106	1475
F_400x400	400x400	0.0555	202	403	504	596	795
F_600x400	600x400	0.0850	305	609	761	914	1218
F_800x400	800x400	0.1150	410	821	1026	1231	1642
F_1000x400	1000x400	0.1435	516	1032	1291	1549	2065
F_500x500	500x500	0.0900	323	647	808	970	1293
F_800x500	800x500	0.1470	527	1055	1319	1582	2110
F_1000x500	1000x500	0.1850	663	1327	1659	1990	2654
F_595x595(*)	561x561	0.1150	407	814	1017	1218	1625
F_600x600	600x600	0.1330	479	958	1197	1435	1914
F_800x600	800x600	0.1790	645	1290	1612	1934	2579
F_1000x600	1000x600	0.2260	811	1622	2028	2433	3244

(*) For this grille, the NOMINAL dimension will be equal to the overall exterior dimensions (595 x 595 mm), making it ideal for installation in 600 x 600 mm modular ceilings.

*V = Air speed.

Sound Level dB(A):

For V=1 m/s → 10 - 15 dB(A) (in rooms equipped with mechanical ventilation systems, concert halls, libraries).

For V=2 m/s → 15 - 20 dB(A) (apartments, hotel rooms, hospital rooms).

For V=2.5 m/s → 20 - 25 dB(A) (hotel rooms, radio studios, offices, restaurants).

For V=3 m/s - 4 m/s → >25 dB(A) (areas around shopping centers or industrial buildings).

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SET OF MAGNETS

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

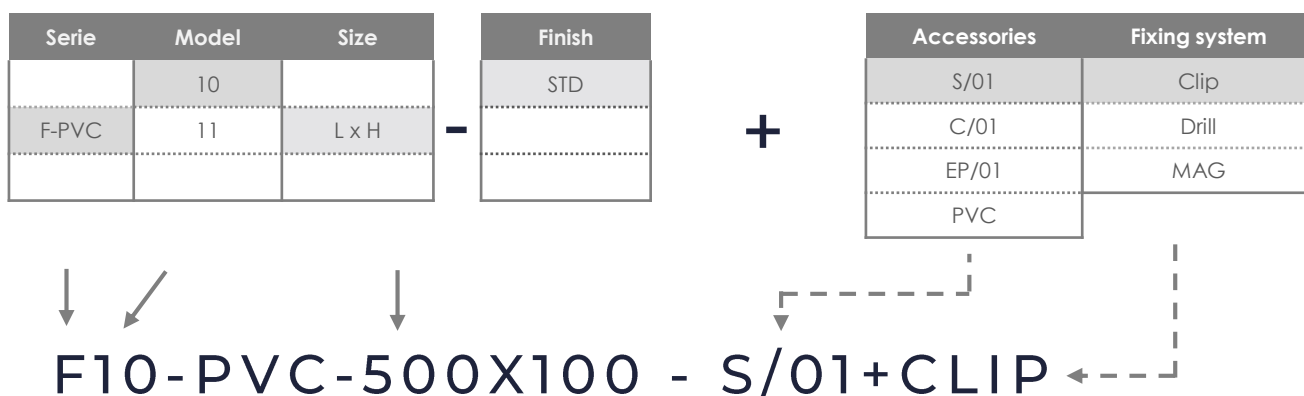
10 magnets

6 magnets

4 magnets

45° FIXED-BLADES GRILLE SERIES F-PVC

GRAPHIC DESCRIPTION



SERIE

- F-PVC: 45° Fixed blades PVC grille.

MODEL

- F10-PVC: Horizontal fixed-blades grille with a 45° angle, made of PVC.

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: F10-PVC 500x100 – S/01 + CLIP

- To order a 500x100 mm PVC horizontal fixed-blades grille at a 45° angle with a flow regulator damper and mounting clips, you should request:

Order	Description
1 Grille F10-PVC 500x100	500x100 mm PVC horizontal fixed-blades grille at a 45° angle.
1 Damper S/01	Flow control damper.
1 CLIP system	Clips for fastening.

Order example: F10-PVC 400x200 – MAG

- To order a 400x200 mm PVC horizontal fixed-blades grille at a 45° angle with magnets, you should request:

Order	Description
1 Grille F10-PVC 400x200	400x200 mm PVC horizontal fixed-blades grille at a 45° angle.
1 MAG system	Set of magnets for fastening.



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