



Serie **R-PVC**



EGGCRATE GRILLE MADE
OF PVC/ABS



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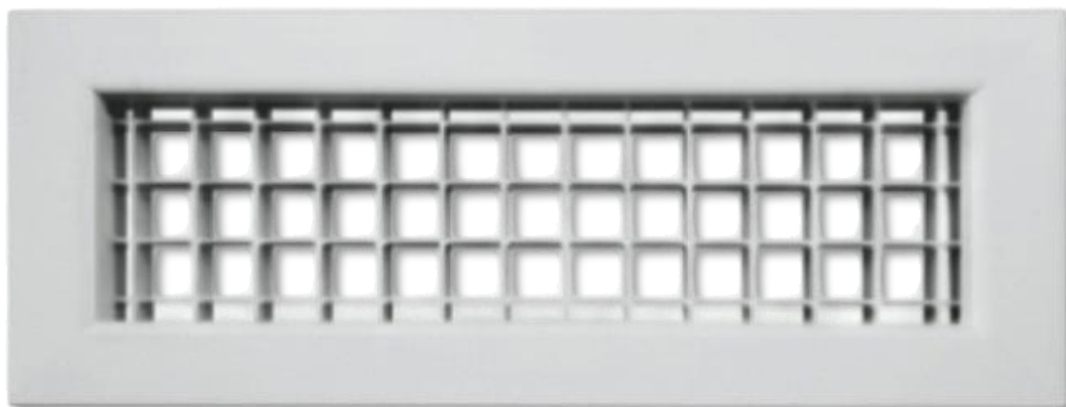


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EGGCRATE GRILLES SERIES R-PVC

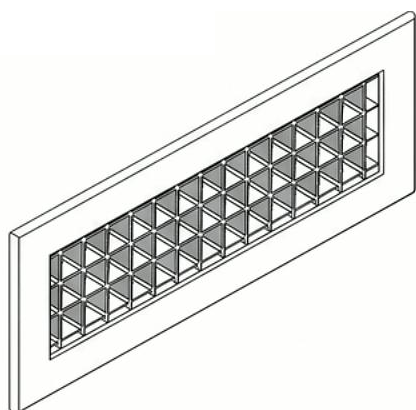


GENERAL DESCRIPTION

The **R-PVC** Series eggcrate grilles are designed for air return in **HVAC** systems where high environmental durability is required. Manufactured entirely from high-strength thermoplastic (**PVC/ABS**), 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

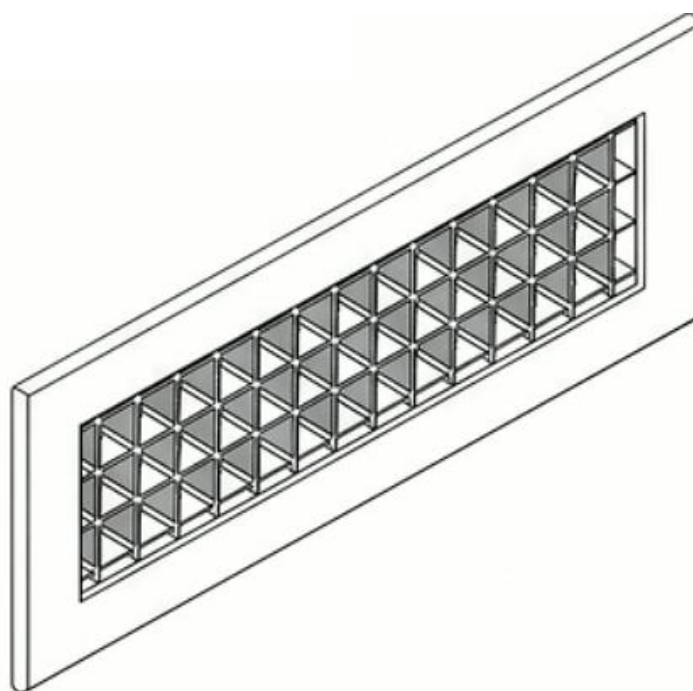
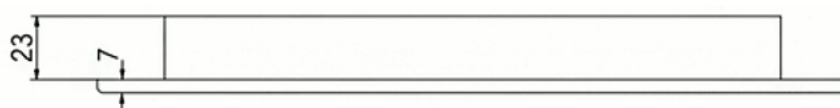
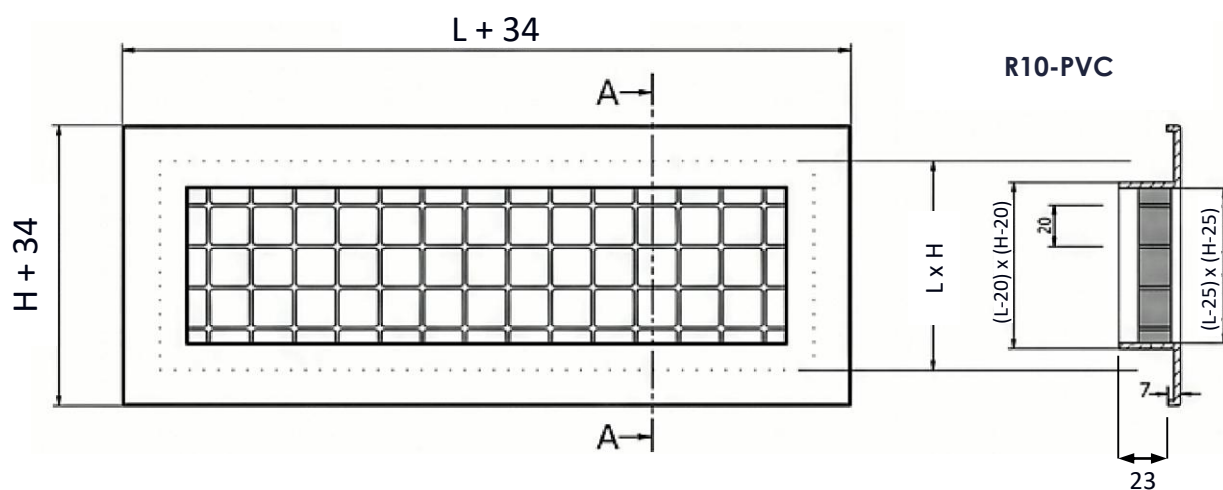


R10-PVC

Eggcrate grilles, made of PVC.

EGGCRATE GRILLES SERIES R-PVC

DIMENSIONS



$L \times H \rightarrow$ NOMINAL= Hole Size

CHARACTERISTICS

- **Material:** Anti-condensation PVC frame and Bayblend® (PC+ABS) blades.
- **Extinction Level:** Class V0.
- **Optimal temperatures:** -30°C / +60°C
- **Fixing system:** Screws or magnets.
- **Blade space:** 20 x 20 mm.

ACCESSORIES

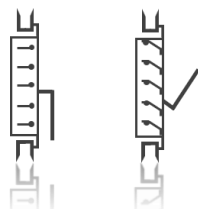
- **Damper** “-S/01”.
- **Mounting frame** “-C/01”.
- **Plenum box:** polycarbonate “-EP/01”, polyurethane (PAL) or PVC.
- **VMAD Adapters**(for models: 200x100, 300x100, 400x100).

FINISH

- White **RAL 9010** (body and blades).

FLOW MEASUREMENT

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



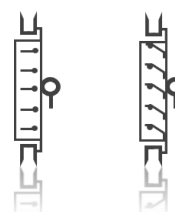
Using a Pitot tube:

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

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



QUICK SELECTION TABLE

			Flow (m3/h)	Flow (m3/h)	Flow (m3/h)	Flow (m3/h)	Flow (m3/h)
Model: R10-PVC	Hole L x H (mm)	Afree (m2)	V = 1 m/s Pd = 1 Pa	V = 2 m/s Pd = 1 Pa	V = 2.5 m/s Pd = 4 Pa	V = 3 m/s Pd = 7 Pa	V = 4 m/s Pd = 10 Pa
R10 200x100	200x100	0.0110	40	80	100	120	160
R10 300x100	300x100	0.0175	63	125	157	168	251
R10 400x100	400x100	0.0240	86	171	214	257	343
R10 300x150	300x150	0.0290	103	207	258	310	413
R10 400x150	400x150	0.0390	141	282	352	422	563
R10 600x150	600x150	0.0600	216	432	540	648	864
R10 300x200	300x200	0.0405	145	292	365	438	585
R10 400x200	400x200	0.0555	199	398	488	587	796
R10 300x300	300x300	0.0635	229	459	573	688	917
R10 400x300	400x300	0.0870	313	626	782	939	1251
R10 600x300	600x300	0.1330	480	959	1199	1439	1918
R10 400x400	400x400	0.1185	427	853	1067	1280	1706
R10 600x400	600x400	0.1820	654	1308	1635	1962	2616
R10 595x595 (*)	561x561	0.2420	872	1743	2179	2615	3486
R10 600x600	600x600	0.2785	1005	2005	2507	3008	4010

(*) 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.

Sound Level dB(A):

For V=1 m/s → <10 dB(A) (in rooms equipped with HRV systems).
 For V=2 m/s → 10 - 15 dB(A) (concert halls, libraries).
 For V=2.5 m/s → 15 - 20 dB(A) (apartments, hotel rooms, hospital rooms).
 For V=3 m/s → 20 - 25 dB(A) (hotel room, radio studios).
 For V=4 m/s → 30 - 35 dB(A) (offices, restaurants).

*V = Air speed.

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	600x150	500x500
300x100	600x200	600x800
400x100	600x300	
300x150	600x400	
300x200		
300x200		
400x200		
500x200		
400x300		
400x400		

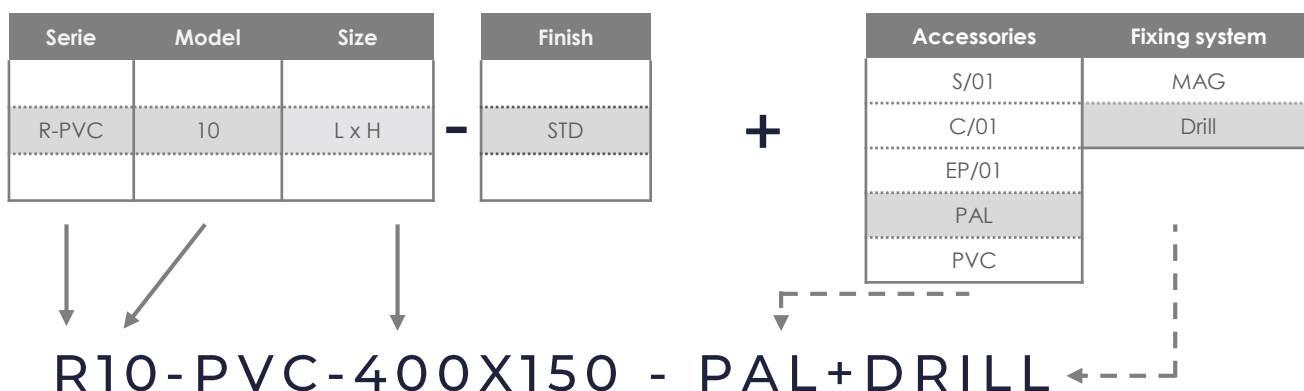
8 magnets

6 magnets

4 magnets

EGGCRATE GRILLES SERIES R-PVC

GRAPHIC DESCRIPTION



SERIE & MODEL

- R10-PVC: Eggcrate grille. Made of PVC.

SIZE (mm)

- L x H: 400 x 150 mm.

FINISH

- STD: White RAL 9010 (standard).

ACCESSORIES (optional)

- PAL: Polyurethane plenum box.

FIXING SYSTEM (optional)

- Drill: Drill/screws fixing system.

Order example: R10-PVC 400x150 – PAL + Drill

- To order a 400x150 mm PVC eggcrate grille with a polyurethane plenum and drill/screw-mounted installation, you should request:

Order	Description
1 Grille R10-PVC 400x150	400x150 mm PVC eggcrate grille.
1 Plenum PAL	Polyurethane plenum box.
1 Drill system	Drill/screws fixing system.

Order example: R10-PVC 200x100 – MAG

- To order a 200x100 mm PVC eggcrate grille with magnet-mounted installation, you should request:

Order	Description
1 Grille R10-PVC 200x100	Rejilla de retícula 200x100 mm en PVC.
1 MAG system	Set of magnets for fastening.



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