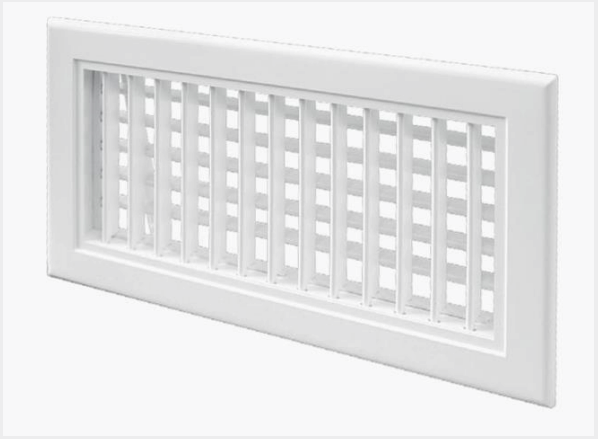
-EB series supply air grilles

-EB series SUPPLY AIR GRILLES



CARATTERISTICHE

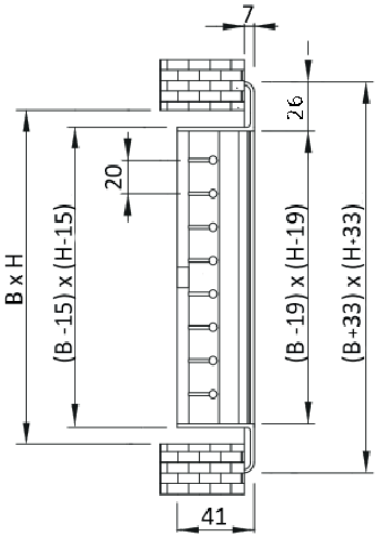
Supply air grille with double row of individually adjustable flaps, vertical front and horizontal rear.

Material of construction: ABS
Color: White RAL 9010
Flap pitch: 20 mm
Extinguishing grade: Class V0
Operating temperature: -30°C/+80°C
Fixing methods: Clips

ACCESSORIES

- Calibration damper -S/01 series,
- Galvanized sheet metal counter frame -C/01 series,
- Polycarbonate plenums -EP/01 series or PVC plenums. For sizes 200/300/400x100 mm, "VMAD" adapters are also usable.

DIMENSIONS



B x H : HOLE MEASURES (in mm)

(**B** is always the hole measurement taken on the larger **side** of it while **H** is always the hole measurement taken on the smaller side)

There is not a separator for dimension **B** of **200** and **300 mm**

There is a reinforcing separator for dimension **B** of **400, 500** and **600 mm**

QUICK SELECTION TABLE

Code	Hole size BxH [mm]	Effective area [m²]	Flow rate (m³/h) with v=1m/s Pressure drop: 2 Pa	Flow rate (m³/h) with v=2m/s Pressure drop: 4 Pa	Flow rate (m³/h) with v=2.5m/s Pressure drop: 7 Pa	Flow rate (m³/h) with v=3m/s Pressure drop: 9 Pa	Flow rate (m³/h) with v=4m/s Pressure drop: 15 Pa
-EB/01200X100	200x100	0.0120	44	88	110	132	176
-EB/01300X100	300x100	0.0180	65	130	163	195	260
-EB/01400X100	400x100	0.0240	87	174	218	261	348
-EB/01300X150	300x150	0.0320	112	224	280	336	448
-EB/01400X150	400x150	0.0410	130	260	325	390	520
-EB/01500X150	500x150	0.0530	191	382	478	573	764
-EB/01600X150	600x150	0.0640	230	460	575	690	920
-EB/01400X200	400x200	0.0590	210	420	525	630	840
-EB/01500X200	500x200	0.0760	275	550	688	825	1100
-EB/01600X200	600x200	0.0930	336	672	840	1008	1344

v = velocity through the nozzle ($_{vk}$)

Parameters for calculating flow rates: fins inclined 0° - damper closure (if any) = 0% - supply air temperature = 16°C - room air temperature = 26°C.

Correspondence between the value of the crossing velocity **v** and the noise index **NR**, indicating the type of installation environments:
- for v = 1 m/s - noise index NR<10 (in all rooms for v.m.c. systems)
- for v = 2 m/s - noise index 10< NR<15 (concert halls, libraries)
- for v = 2.5 m/s - noise index 15<NR<20 (apartments, hotel rooms, hospital rooms)
- for v = 3 m/s - noise index 20<NR<25 (hotel rooms, radio studios)
- for v = 4 m/s - noise index 30<NR<35 (offices in general, restaurants).

REV 01/2025

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Quota capital €uro 10,500.00 fully paid-in
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