SUPPLY INDUSTRIAL GRILLES PITCH 40mm

Serie EBIA

EBIA grilles are supply grille having one or two rows adjustable blades in aluminium with 40mm pitch. They are used for supply in wall or duct installation, both in heating and in cooling. They are also suitable for industrial application where big airflows are required.

EXECUTIONS

Possible executions refer to the configuration of the blades.

AVAILABLE MODELS:

- EBIA VO industrial grille with double row adjustable blades (front vertical)
- EBIA OV industrial grille with double row adjustable blades (front horizontal)
- EBIA V industrial grille with single row adjustable blades (vertical)
- EBIA O industrial grille with single row adjustable blades (horizontal)

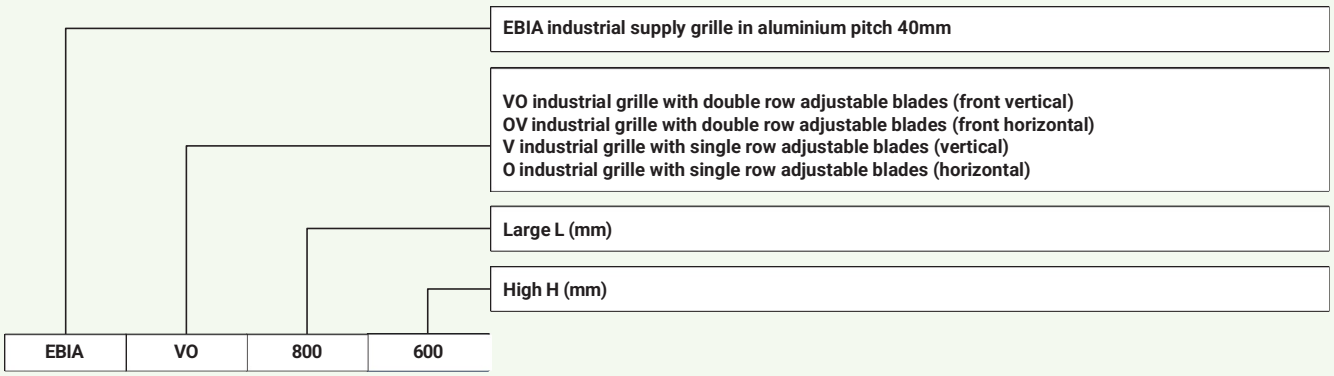
- ACCESSORIES

CTP Mounting Frame

TENDER SPECIFICATION

Supply grille with one or two rows adjustable blades in aluminium with 40mm pitch; used for supply in wall or duct installation, both in heating and in cooling and suitable for industrial application where big airflows are required.

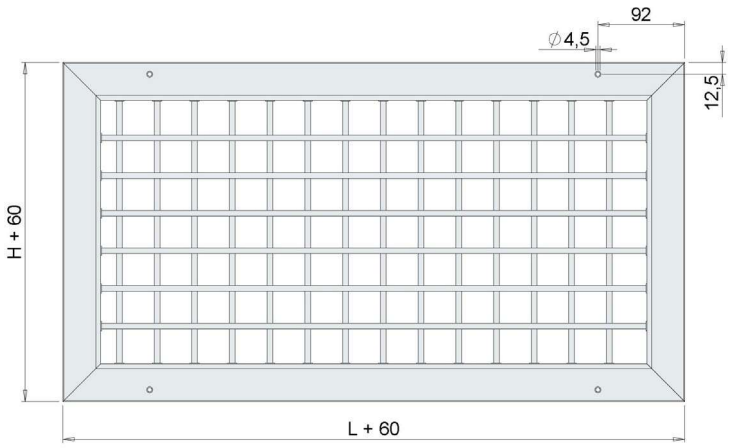
CODES



EBIA

CONSTRUCTION AND DIMENSION

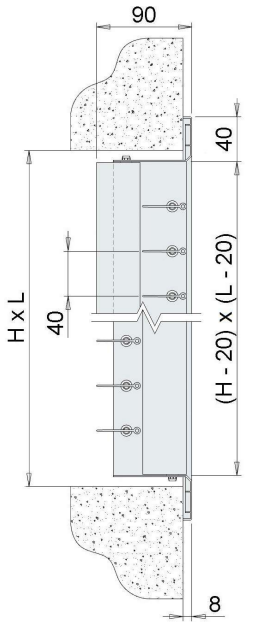
- Material: aluminium
- External finishing: natural anodized aluminium
- Further external finishing: Painting according to RAL Scale
- Fixing: with front holes for screws



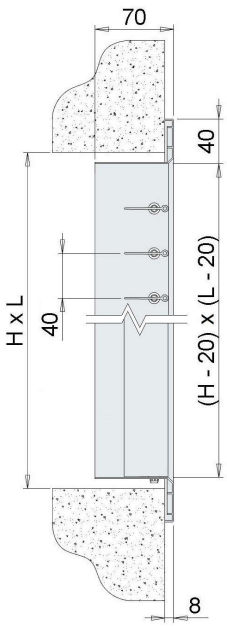
TECHNICAL FEATURES

Supply industrial grilles EBIA are suitable for supply and are installed in walls or ducts having highs between 4,5 and 15 m. Their operative performances grants the effective speed, the total pressure drop, the sound level and the launch. EBIA grilles are listed here below in table according to airflow.
Isothermal launch is referring to terminal air speed of 0,25 m/s. For non-isothermal launch or for launch having different terminal air speed, multiplicative corrective coefficients are provided for calculation.
Sound level is indicated as Weighted Sound Power Level A (LWA) that is coming out from grille without any environment correction. To calculate the sound pressure level (LpA) in the environment it is necessary to consider the location of the grille, the distance from the listening point and the acoustic characteristics of the environment in which the grille is installed.

EBIA FRONTAL DIMENSION



EBIA OV - EBIA VO



EBIA O - EBIA V

CORRECTIVE FACTORS

Corrective multiplication factor of the launch as a function of terminal velocity

V_t[m/s]	Kv
0,15	1,67
0,20	1,25
0,25	1,00
0,30	0,83
0,35	0,71
0,40	0,63
0,45	0,56
0,50	0,50

Corrective multiplication factor for non-isothermal launch

ΔT[°C]	K_{Tc}
-10	0,85
0	1
10	1,2

Corrective multiplication factors for 1 row
-X Throw: Maximum length of air throw for a specific terminal velocity.

	K
X	1,05
Δpt	0,95
L_{WA}	0,90

Dimension LxH	Effective Section m2	m³/h	L1	m³/h	L1	m³/h	L1
500x200	0.075	810	11.5	1080	14.6	1350	19.5
600x200	0.09	972	13	1296	16	1620	22
700x200	0.105	1134	13.5	1512	18	1890	23
800x200	0.012	1296	14	1728	19	2160	24
1000x200	0.15	1620	16.5	2160	21	2700	25
500x300	0.12	1296	14	1728	18.1	2160	23
600x300	0.145	1566	16.2	2088	20.8	2610	25
700x300	0.17	1836	18.6	2448	23	3060	28
800x300	0.195	2106	20.8	2808	25	2564	30
1000x300	0.245	2646	23	3528	28	4410	35
1200x300	0.29	3132	24.8	4176	29.5	5220	36
1500x300	0.36	3888	26.6	5184	31	6480	37.5
600x400	0.2	1260	20.5	2880	25.8	3600	29
700x400	0.23	2484	23	3312	26.2	4140	32
800x400	0.26	808	25.5	3744	30	4680	35
1000x400	0.33	3564	27.2	4752	33	5940	39
1200x400	0.41	4428	28.4	5900	34.8	7380	40.2
1500x400	0.51	5500	31.2	7350	37.7	9180	42
600x500	0.26	2808	21	3744	29	4680	36
700x500	0.3	3240	24	4320	31	5400	38
800x500	0.34	3672	27	4896	33	6120	39.5
1000x500	0.42	4536	29.5	6048	36	7560	41
1200x500	0.51	4536	31.2	7350	37.7	9180	42
1500x500	0.63	5500	32	9072	38.5	11340	43.2
600x600	0.31	6805	23.6	4464	30.1	5580	37.2
800x600	0.42	3348	28	6048	35	7560	40
1000x600	0.52	5637	32	7516	37	9396	47
1200x600	0.63	6804	33	9072	42	11340	49
1500x600	0.75	8100	34.8	10800	44	13500	50.6
V (m/s)		3		4		5	

L1 (m): launch in meters calculated with installation flush with the ceiling and terminal speed 0.25 m/s
Pa: pressure drop in Pascal
dB(A): noise level
All dimensions are expressed in mm

NOISE LEVEL dB(A)

V m/s	defl. 0°	defl. 20°	defl. 40°
3	25/30	28/33	30/35
4	30/35	33/38	35/40
5	35/40	38/43	40/45

PRESSURE DROP (Pa)

V m/s	defl. 0°	defl. 20°	defl. 40°
3	5	7	10
4	10	13	18
5	15	21	33

CONFIGURATION

All dimensions are expressed in mm