



BKVN

Weather louvre Sound attenuating Weatherproof vane

Available types

B K V N - O

- B** weather louvre
- K** sound attenuating
- V** flat face, galvanised steel sheet
- N** not applicable

- Mesh

- G** galvanised mesh (standard)
- S** stainless steel insect mesh

- O** not applicable

SA-Select

Check SA-Select to create extended order codes and selection details online. **NB!** At this moment, SA-Select is only available in Dutch. But it is possible to create extended order codes and selection details online.

Use

The sound attenuating weather louvre BKVN is suitable for supplying and discharging air, when special requirements are imposed on the sound levels in the surrounding area. With the corresponding mounting frame, the louvre can be fitted in any type of wall. The sound attenuating weather louvre is suitable as a ventilation louvre for boiler houses, compressor rooms, et cetera.

Characteristics

Free flow: See further on in this document
Weight: See further on in this document

Version

Weather louvre

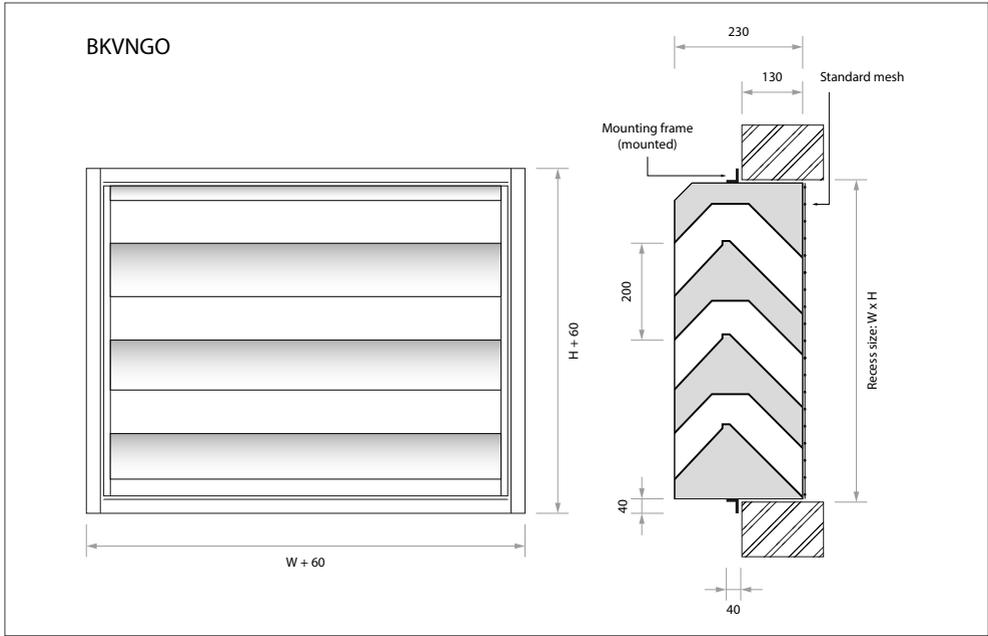
Frame: sendzimir galvanised steel
Vaness: sendzimir galvanised steel
Attenuating material: mineral wool with glass-fibre covering
Mesh: 19 x 19 mm, galvanised

Optional

Insect mesh*: stainless steel, 2 x 2 mm

*The use of insect mesh reduces the net free flow and this has consequences for the design details. They are available in SA-Select.

Dimensions



Available dimensions and weights

H	W								
	320	520	720	920	1120	1320	1520	1720	1920
	kg	kg	kg	kg	kg	kg	kg	kg	kg
320	10	15	20	25	30	35	40	45	50
520	15	20	25	30	35	40	45	50	60
720	15	25	30	35	40	50	55	60	70
920	20	25	35	40	50	55	65	70	80
1120	20	30	40	45	55	65	70	80	90
1320	25	35	45	55	60	70	80	90	100
1520	30	40	50	60	70	80	90	100	110
1720	30	40	55	65	75	85	95	105	120
1920	35	45	60	70	80	95	105	115	130

- The height is a fixed size.
- Interim widths available in increments of 5 mm.

Attenuation values

attenuation values								
63	125	250	500	1k	2k	4k	8k	Hz
11	10	11	13	16	23	25	28	dB

- The attenuation data is based on a comparable measurement between a recess of 520 x 520 mm and a louvre of the same size.
- In critical situations, please consult an acoustic adviser. For example in acoustically hard rooms and/or in case of a short distance between the source of noise, louvre and a specific place where the sound level needs to comply with certain standards.

Note

- The listed dimensions are in mm.
- W x H is the recess size.
- It is recommended to fit a drainage option in the duct behind the louvres.
- The factory-fitted mounting frame is a 40 x 40 mm corner profile, which does not have standard mounting holes.

Selection details

BKVN

air volume		required free flow in m ²																							
		0.015		0.02		0.025		0.03		0.04		0.05		0.06		0.08		0.1		0.125		0.15			
m ³ /s	m ³ /h	Δp_t Pa	L_{pA} dB(A)	Δp_t Pa	L_{pA} dB(A)	Δp_t Pa	L_{pA} dB(A)	Δp_t Pa	L_{pA} dB(A)	Δp_t Pa	L_{pA} dB(A)	Δp_t Pa	L_{pA} dB(A)	Δp_t Pa	L_{pA} dB(A)	Δp_t Pa	L_{pA} dB(A)	Δp_t Pa	L_{pA} dB(A)	Δp_t Pa	L_{pA} dB(A)	Δp_t Pa	L_{pA} dB(A)		
0.040	144	15	13	8	6	5	-																		
0.050	180	23	19	13	12	8	7	6	-																
0.060	216	33	23	19	17	12	12	8	8	5	-														
0.080	288	59	31	33	25	21	20	15	16	8	9	5	5												
0.100	360	91	37	51	30	33	25	23	22	13	15	8	10	6	6										
0.150	540					74	36	51	32	29	26	19	21	13	17	7	11	5	6						
0.200	720							91	40	51	33	33	28	23	25	13	18	8	13	5	9	4	5		
0.250	900									91	40	51	33	36	30	20	24	13	19	8	14	6	10		
0.300	1080									116	44	74	39	51	35	29	29	19	24	12	19	8	15		
0.400	1440											132	47	91	43	51	36	33	32	21	27	15	23		
0.500	1800															80	42	51	37	33	32	23	29		
0.600	2160															116	47	74	42	47	37	33	33		
0.800	2800																		84	45	59	41			
1.000	3600																		132	51	91	47			

air volume		required free flow in m ²																							
		0.2		0.25		0.3		0.4		0.5		0.6		0.8		1.0		1.25		1.5		2			
m ³ /s	m ³ /h	Δp_t Pa	L_{pA} dB(A)	Δp_t Pa	L_{pA} dB(A)	Δp_t Pa	L_{pA} dB(A)	Δp_t Pa	L_{pA} dB(A)	Δp_t Pa	L_{pA} dB(A)	Δp_t Pa	L_{pA} dB(A)	Δp_t Pa	L_{pA} dB(A)	Δp_t Pa	L_{pA} dB(A)	Δp_t Pa	L_{pA} dB(A)	Δp_t Pa	L_{pA} dB(A)	Δp_t Pa	L_{pA} dB(A)		
0.250	900	3	4																						
0.300	1080	5	9	3	4																				
0.400	1440	8	16	5	12	4	8																		
0.500	1800	13	22	8	17	6	13	3	7																
0.600	2160	19	27	12	22	8	18	5	12	3	7														
0.800	2800	33	35	21	30	15	26	8	19	5	15	4	11												
1.000	3600	51	40	33	35	23	32	13	25	8	20	6	16	3	10	2	5								
1.500	5400	116	51	74	46	51	42	29	36	19	31	13	27	7	21	5	16	3	11	2	7				
2.000	7200			132	54	91	50	51	43	33	38	23	35	13	28	8	23	5	19	4	15	2	8		
2.500	9000					143	55	80	49	51	44	36	40	20	34	13	29	8	24	6	20	3	14		
3.000	10800							116	54	74	49	51	45	29	39	19	34	12	29	8	25	5	19		
4.000	14400									132	57	91	53	51	46	33	42	21	37	15	33	8	26		
5.000	18000											143	58	80	52	51	47	33	42	23	39	13	32		
6.000	21600													116	57	74	52	47	47	33	43	19	37		
8.000	28800															132	60	84	55	59	51	33	45		
10.000	36000																	132	61	91	57	51	50		

General

- $L_{pA} = L_{WA} - 10$ dB.
- It is permitted to interpolate the interim values.
- Sound and pressure loss data apply when the discharge goes to the outside.

Correction data

- When air is drawn in, the values in the table need to be corrected with the following factors:
 $\Delta p_t = \text{table value} \times 1.2$
 $L_{pA} = \text{table value} + 5$ dB.

Free flow

H	B								
	320	520	720	920	1120	1320	1520	1720	1920
	m ²								
320	0.0156	0.0276	0.0396	0.0516	0.0636	0.0756	0.0876	0.0996	0.1116
520	0.0312	0.0552	0.0792	0.1032	0.1272	0.1512	0.1752	0.1992	0.2232
720	0.0468	0.0828	0.1188	0.1548	0.1908	0.2268	0.2628	0.2988	0.3348
920	0.0624	0.1104	0.1584	0.2064	0.2544	0.3024	0.3504	0.3984	0.4464
1120	0.0780	0.1380	0.1980	0.2580	0.3180	0.3780	0.4380	0.4980	0.5580
1320	0.0936	0.1656	0.2376	0.3096	0.3816	0.4536	0.5256	0.5976	0.6696
1520	0.1092	0.1932	0.2772	0.3612	0.4452	0.5292	0.6132	0.6972	0.7812
1720	0.1248	0.2208	0.3168	0.4128	0.5088	0.6048	0.7008	0.7968	0.8928
1920	0.1404	0.2484	0.3564	0.4644	0.5724	0.6804	0.7884	0.8964	1.0044