

ABC-SLVS

Rectangular external louvre for outdoor air in exposed locations



QUICK FACTS

- For wind- and rain-exposed locations
- Vertical blades
- Water separation class A is achieved at air velocities of up to 6 m/s through the louvre's free area (face velocity: 3.5 m/s).
- 58% free area
- Blades in aluminium and frame in zinc-magnesium carbon reduced steel.

Technical description

Design

ABC-SLVS is a highly efficient outdoor air louvre designed for weather-exposed conditions.

Function

ABC-SLVS has specially designed aluminium profiles with properties to withstand extreme weather conditions and wind-driven rain. Water droplets and aerosols are captured by the profile and drained into a gutter at the bottom. With vertically positioned profiles, a reliable air intake is ensured regardless of wind exposure and wind loads. Supplied with wire mesh for protection against small animals. Mounting frame with a removable louvre insert and small-animal-proof wire mesh. Can also be supplied for installation in sections.

Material

Aluminium blades and frame in zinc-magnesium carbon reduced steel.

Weight

33 kg/m²

Size

Available in sizes from 200x200 to 2000x2000 mm in 100 mm increments. Width and height can be freely combined. For weights above 50 kg, the louvre is divided into sections.

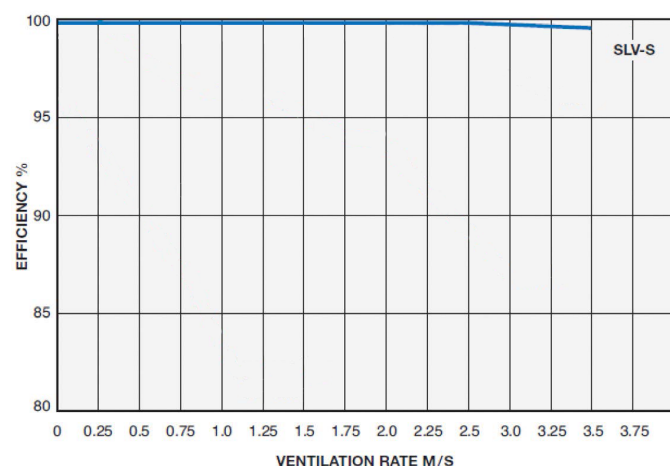
Water separation

ABC-SLVS has been tested according to EN 13030. Water separation class A is achieved at air velocities of up to 6 m/s through the louvre's free area (face velocity: 3.5 m/s). Free area is 58% at size 1000x1000 mm.

Water separation efficiency ABC-SLVS

Class A: 1 - 0,99

Class B: 0,989 - 0,95



Klass C: 0,949 - 0,80

Klass D: under 0,8

Accessories

Aluminium insect mesh is available as an option.

Maintenance

Annual inspection is recommended to check for damage and to clean debris and leaves from intake and outlet sections, particularly drainage holes. Carryover of aerosols, powdery snow, or ice formation may occur under adverse conditions.

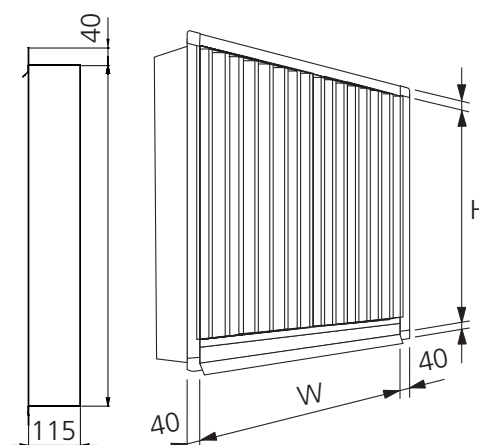
Specification example

VVS AMA QMB.1

External louvre ABC-SLVS by Swegon manufacturer.

Size 800x800.

Duct/Opening size = W x H (Width x height)
Product dimensions are designed to fit inside the specified W x H.



Dimensions

- Pressure drop values are based on louvre size 1000x1000 mm with small-animal mesh installed.
- Water separation efficiency according to EN 13030 is based on louvre size 1000x1000 mm.

Key figures

Free area	58%
Cd coefficient	0,364

ABC-SLVS performance data							
Air velocity through the louvre's free area, m/s	0,9	1,7	2,6	3,4	4,3	5,2	6
Pressure drop (Pa)	2	5	10	18	28	41	56
Water separation efficiency	A	A	A	A	A	A	A
Sound power, Lw (dB)	<20	35	46	52	57	61	65

Airflow at 0,9 m/s

l/s

$\frac{W}{H}$	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
200	20	30	40	50	61	71	81	91	101	111	121	131	141	151	161	172	182	192	202
300	30	45	61	76	91	106	121	136	151	167	182	197	212	227	242	257	272	288	303
400	40	61	81	101	121	141	161	182	202	222	242	262	283	303	323	343	363	383	404
500	50	76	101	126	151	177	202	227	252	278	303	328	353	378	404	429	454	479	505
600	61	91	121	151	182	212	242	272	303	333	363	394	424	454	484	515	545	575	606
700	71	106	141	177	212	247	283	318	353	389	424	459	495	530	565	600	636	671	706
800	81	121	161	202	242	283	323	363	404	444	484	525	565	606	646	686	727	767	807
900	91	136	182	227	272	318	363	409	454	500	545	590	636	681	727	772	817	863	908
1000	101	151	202	252	303	353	404	454	505	555	606	656	706	757	807	858	908	959	1009
1100	111	167	222	278	333	389	444	500	555	611	666	722	777	833	888	944	999	1055	1110
1200	121	182	242	303	363	424	484	545	606	666	727	787	848	908	969	1029	1090	1150	1211
1300	131	197	262	328	394	459	525	590	656	722	787	853	918	984	1050	1115	1181	1246	1312
1400	141	212	283	353	424	495	565	636	706	777	848	918	989	1060	1130	1201	1272	1342	1413
1500	151	227	303	378	454	530	606	681	757	833	908	984	1060	1135	1211	1287	1362	1438	1514
1600	161	242	323	404	484	565	646	727	807	888	969	1050	1130	1211	1292	1373	1453	1534	1615
1700	172	257	343	429	515	600	686	772	858	944	1029	1115	1201	1287	1373	1458	1544	1630	1716
1800	182	272	363	454	545	636	727	817	908	999	1090	1181	1272	1362	1453	1544	1635	1726	1817
1900	192	288	383	479	575	671	767	863	959	1055	1150	1246	1342	1438	1534	1630	1726	1822	1917
2000	202	303	404	505	606	706	807	908	1009	1110	1211	1312	1413	1514	1615	1716	1817	1917	2018

Airflow at 6 m/s

l/s

$\frac{W}{H}$	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
200	140	210	280	350	420	490	560	630	700	770	840	910	980	1050	1120	1190	1260	1330	1400
300	210	315	420	525	630	735	840	945	1050	1155	1260	1365	1470	1575	1680	1785	1890	1995	2100
400	280	420	560	700	840	980	1120	1260	1400	1540	1680	1820	1960	2100	2240	2380	2520	2660	2800
500	350	525	700	875	1050	1225	1400	1575	1750	1925	2100	2275	2450	2625	2800	2975	3150	3325	3500
600	420	630	840	1050	1260	1470	1680	1890	2100	2310	2520	2730	2940	3150	3360	3570	3780	3990	4200
700	490	735	980	1225	1470	1715	1960	2205	2450	2695	2940	3185	3430	3675	3920	4165	4410	4655	4900
800	560	840	1120	1400	1680	1960	2240	2520	2800	3080	3360	3640	3920	4200	4480	4760	5040	5320	5600
900	630	945	1260	1575	1890	2205	2520	2835	3150	3465	3780	4095	4410	4725	5040	5355	5670	5985	6300
1000	700	1050	1400	1750	2100	2450	2800	3150	3500	3850	4200	4550	4900	5250	5600	5950	6300	6650	7000
1100	770	1155	1540	1925	2310	2695	3080	3465	3850	4235	4620	5005	5390	5775	6160	6545	6930	7315	7700
1200	840	1260	1680	2100	2520	2940	3360	3780	4200	4620	5040	5460	5880	6300	6720	7140	7560	7980	8400
1300	910	1365	1820	2275	2730	3185	3640	4095	4550	5005	5460	5915	6370	6825	7280	7735	8190	8645	9100
1400	980	1470	1960	2450	2940	3430	3920	4410	4900	5390	5880	6370	6860	7350	7840	8330	8820	9310	9800
1500	1050	1575	2100	2625	3150	3675	4200	4725	5250	5775	6300	6825	7350	7875	8400	8925	9450	9975	10500
1600	1120	1680	2240	2800	3360	3920	4480	5040	5600	6160	6720	7280	7840	8400	8960	9520	10080	10640	11200
1700	1190	1785	2380	2975	3570	4165	4760	5355	5950	6545	7140	7735	8330	8925	9520	10115	10710	11305	11900
1800	1260	1890	2520	3150	3780	4410	5040	5670	6300	6930	7560	8190	8820	9450	10080	10710	11340	11970	12600
1900	1330	1995	2660	3325	3990	4655	5320	5985	6650	7315	7980	8645	9310	9975	10640	11305	11970	12635	13300
2000	1400	2100	2800	3500	4200	4900	5600	6300	7000	7700	8400	9100	9800	10500	11200	11900	12600	13300	14000

Weight

H \ W	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
200	1	2	3	3	4	5	5	6	7	7	8	9	9	10	11	11	12	13	13
300	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
400	3	4	5	7	8	9	11	12	13	15	16	17	18	20	21	22	24	25	26
500	3	5	7	8	10	12	13	15	17	18	20	21	23	25	26	28	30	31	33
600	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40
700	5	7	9	12	14	16	18	21	23	25	28	30	32	35	37	39	42	44	46
800	5	8	11	13	16	18	21	24	26	29	32	34	37	40	42	45	48	50	53
900	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48	50	53	56	59
1000	7	10	13	17	20	23	26	30	33	36	40	43	46	50	53	56	59	63	66
1100	7	11	15	18	22	25	29	33	36	40	44	47	51	54	58	62	65	69	73
1200	8	12	16	20	24	28	32	36	40	44	48	51	55	59	63	67	71	75	79
1300	9	13	17	21	26	30	34	39	43	47	51	56	60	64	69	73	77	82	86
1400	9	14	18	23	28	32	37	42	46	51	55	60	65	69	74	79	83	88	92
1500	10	15	20	25	30	35	40	45	50	54	59	64	69	74	79	84	89	94	99
1600	11	16	21	26	32	37	42	48	53	58	63	69	74	79	84	90	95	100	106
1700	11	17	22	28	34	39	45	50	56	62	67	73	79	84	90	95	101	107	112
1800	12	18	24	30	36	42	48	53	59	65	71	77	83	89	95	101	107	113	119
1900	13	19	25	31	38	44	50	56	63	69	75	82	88	94	100	107	113	119	125
2000	13	20	26	33	40	46	53	59	66	73	79	86	92	99	106	112	119	125	132

For weights over 50 kg, the louvre is divided into sections.

Installation

1.

The louvre consists of a frame with a removable blade insert. Start by undoing the mounting screws that secure the blade insert to the frame. Lift out the blade insert so that the frame is empty.

2.

Create the wall opening according to the ordered louvre dimensions (width x height). Then secure the louvre frame to the façade from inside the frame (see arrow below), using suitable fixings and sealant where required, depending on the façade type.

3.

Once the louvre frame is secured to the façade, screw the blade insert back into place.

Install a cover flashing to prevent water from entering behind the louvre. Ensure proper sealing against the mounting surface.

