Chapter 4
Weather and penthouse louvres

4

2024_05_v3

Combined penthouse louvre (June 2025)

New design
Combi penthouse louvre
Separate supply and return hood possible

New!

Our new range of penthouse louvre are available from June 2025!

This new line will initially be carried alongside our current product line of penthouse louvre. With the new 'design' line, we took a good look at the functionality and operation of the louvre.

The new line is expected to be available from the beginning of 2025. Keep an eye on our website for the technical documentation and prices or stay informed via our newsletter.

You can register online:
nijburg.nl/nieuwsbrief-aanmelding

The most important features:
- Vertical return is done at speed of 5 m/s to 10 m/s to keep the polluted air as far as possible away from the supply.
- Due to the increased supply device, the physical distance between supply and return is increased, reducing short circuits to a minimum.
- The fresh air is sucked in on 4 sides of the combi penthouse louvre.
- Drainage of the roof and return collection takes place "by" the corner posts, which prevent rainwater from flowing over the return diffusers.
- Patented rain protection in the return duct.
- To be installed on in-situ roof base and optional versions.
- The Louvres are made entirely of aluminium and are also provided with a polyester powder coating.

Combi penthouse louvre

Separate penthouse louvres

Return   Supply
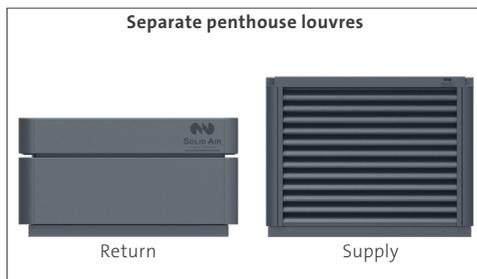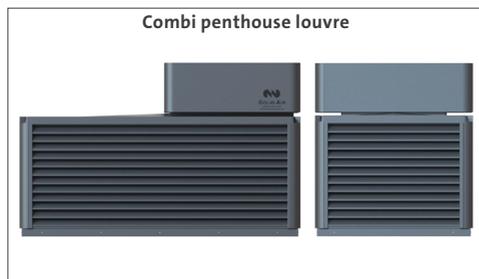
BDXN/BDYN

**Penthouse louvre
Standard version
Weatherproof vane**

Available types
B D - N - O

B outside air
D penthouse louvre

- Material
  X rolled sendzimir galvanised steel vane 60 mm
  Y anodised aluminium vane 50 mm

N starter frame for upstand

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

O not applicable

Available upstands
BDONOD:	uninsulated, sendzimir galvanised steel
BDONOR:	insulated, sendzimir galvanised steel
BDONAD:	uninsulated, seawater-resistant aluminium
BDONAR:	insulated, seawater-resistant aluminium

Available uninsulated grommets
BDOKOD:	sendzimir galvanised steel, length 500 mm
BDOKAD:	seawater-resistant aluminium, length 500 mm

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 BD-N penthouse louvre is suitable for air supply or discharge. The penthouse louvre is available to extremely large dimensions in order to combine the air supply or discharge for several ventilation systems. It is also possible to have the penthouse louvre as a combined supply and discharge.

Characteristics
Standard fitted with hoisting rings.

Version
Penthouse louvre BDXN
Material:	sendzimir galvanised steel
Mesh:	19 x 19 mm, galvanised
Louvres:	sendzimir galvanised steel
Frame + penthouse:	sendzimir galvanised steel
Post-treatment:	none

Optional
Insect mesh*:	stainless steel 2 x 2 mm

Penthouse louvre BDYN
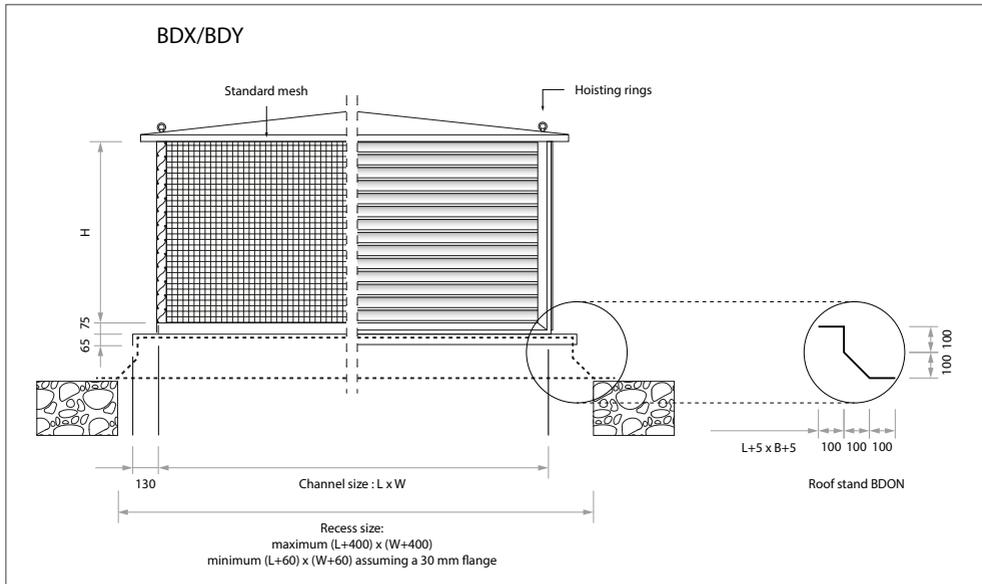|	
Material:	seawater-resistant aluminium
Mesh:	19 x 19 mm, galvanised
Louvres:	anodised aluminium
Frame + penthouse:	seawater-resistant aluminium
Post-treatment:	none

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

BDX/BDY

Standard mesh

Hoisting rings

H

75
65

130

Channel size : L x W

Recess size:
maximum (L+400) x (W+400)
minimum (L+60) x (W+60) assuming a 30 mm flange

L+5 x B+5   100 100 100

100 100

Roof stand BDON

Available dimensions and weights

W		L									
		600	800	1000	1200	1400	1600	1800	2000	2200	2400
600	H	500	600	600	700	700	700	700	700	700	800
	BDX kg	60	75	85	100	110	120	130	140	150	175
	BDY kg	25	35	40	50	55	60	65	70	75	90
800	H		700	700	800	800	900	900	900	900	900
	BDX kg		90	100	120	130	155	165	180	190	200
	BDY kg		45	50	60	65	80	85	90	95	105
1000	H			800	900	900	1000	1000	1000	1000	1100
	BDX kg			120	145	155	180	190	205	215	245
	BDY kg			60	75	80	90	100	105	110	130
1200	H				1000	1000	1100	1100	1200	1200	1200
	BDX kg				170	180	205	220	250	260	275
	BDY kg				85	90	105	115	130	140	145
1400	H					1100	1200	1200	1300	1300	1400
	BDX kg					205	235	250	280	295	325
	BDY kg					105	125	130	150	155	175
1600	H						1200	1300	1400	1400	1400
	BDX kg						250	280	310	325	345
	BDY kg						130	150	165	175	185
1800	H							1400	1400	1500	1600
	BDX kg							310	325	360	400
	BDY kg							165	175	195	215

Note

• The listed dimensions are in mm.

2024_05_v3

Selection details

BD-N

Table 1.1: Supply (with L x W = 1600 x 1600 mm)

		2	3	4	5	6	7	m/s
BDXN steel	Δp_s	6	12	**22**	39	54	71	Pa
	L_{pA}	22	32	**40**	48	52	56	dB(A)
BDYN aluminium	Δp_s	7	17	**27**	44	69	86	Pa
	L_{pA}	24	36	**42**	48	55	58	dB(A)

Table 1.2: Discharge (with L x W = 1600 x 1600 mm)

		2	3	4	5	6	7	m/s
BDXN steel	Δp_s	6	12	22	**39**	54	71	Pa
	L_{pA}	19	29	37	**45**	49	59	dB(A)
BDYN aluminium	Δp_s	6	14	23	**37**	58	72	Pa
	L_{pA}	21	33	39	**45**	52	55	dB(A)

Table 2: Required passage surface

air volume		m/s					
		2	3	4	5	6	7
m^3/s	m^3/h	m^2	m^2	m^2	m^2	m^2	m^2
0.60	**2160**	0.30	0.20	**0.15**	**0.12**	0.10	0.09
0.80	**2880**	0.40	0.27	**0.20**	**0.16**	0.13	0.11
1.00	**3600**	0.50	0.33	**0.25**	**0.20**	0.17	0.14
1.50	**5400**	0.75	0.50	**0.38**	**0.30**	0.25	0.21
2.00	**7200**	1.00	0.67	**0.50**	**0.40**	0.33	0.29
2.50	**9000**	1.25	0.83	**0.63**	**0.50**	0.42	0.36
3.00	**10800**	1.50	1.00	**0.75**	**0.60**	0.50	0.43
4.00	**14400**	2.00	1.33	**1.00**	**0.80**	0.67	0.57
5.00	**18000**	2.50	1.67	**1.25**	**1.00**	0.83	0.71
6.00	**21600**	3.00	2.00	**1.50**	**1.20**	1.00	0.86
8.00	**28800**	4.00	2.67	**2.00**	**1.60**	1.33	1.14
10.00	**36000**		3.33	**2.50**	**2.00**	1.67	1.43
15.00	**54000**			**3.75**	**3.00**	2.50	2.14
20.00	**72000**				**4.00**	3.33	2.86
25.00	**90000**					4.17	3.57
30.00	**108000**						4.29

☐ Preferred range

Table 3: Passage and penthouse louvre height

W		L									
		600	800	1000	1200	1400	1600	1800	2000	2200	2400
600	H	500	600	600	700	700	700	700	700	700	800
	m^2	0.36	0.48	0.60	0.72	0.84	0.96	1.08	1.20	1.32	1.44
800	H		700	700	800	800	900	900	900	900	900
	m^2		0.64	0.80	0.96	1.12	1.28	1.44	1.60	1.76	2.00
1000	H			800	900	900	1000	1000	1000	1000	1100
	m^2			1.00	1.20	1.40	1.60	1.80	2.00	2.20	2.40
1200	H				1000	1000	1100	1100	1200	1200	1200
	m^2				1.44	1.68	1.92	2.16	2.40	2.64	2.88
1400	H					1100	1200	1200	1300	1300	1400
	m^2					1.96	2.24	2.52	2.80	3.08	3.36
1600	H						1200	1300	1400	1400	1400
	m^2						2.56	2.88	3.20	3.52	3.84
1800	H							1400	1400	1500	1600
	m^2							3.24	3.60	3.96	4.32

Note
• The listed dimensions are in mm.

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Table 4: Sound correction for different dimensions

W	L									
	600	800	1000	1200	1400	1600	1800	2000	2200	2400
	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB
600	-9	-7	-6	-6	-5	-4	-4	-3	-3	-2
800		-6	-5	-4	-4	-3	-2	-2	-2	-1
1000			-4	-3	-3	-2	-2	-1	-1	0
1200				-2	-2	-1	-1	0	0	1
1400					-1	-1	0	0	1	1
1600						0	1	1	1	2
1800							1	1	2	2

Note
- The maximum inflow speed is limited at 4 m/s in connection with the weatherproof limit.
- However, blow-through means the weatherproofness of penthouse louvres is not solely dependent on the inflow speed. It is recommended to fit a drainage option in the connecting duct.
- The given height is the optimum height. Lowering the penthouse louvre produces too much reduction in the passage. Increasing it produces an inefficient cost increase.
- $L_{pA} = L_{wA} - 10$ dB.
- The sound pressure LpA is given for a penthouse louvre dimension of L x W x H = 1600 x 1600 x 1200 mm. For correction with a different dimension, please refer to the sound correction table 4.
- The listed dimensions are in mm.

Selection example
- Determine the speed by using table 1.1 or 1.2 and the pressure loss and sound production that is deemed permissible.
- In combination with the air volume, table 2 is used to determine the required passage.
- Table 3 then provides the possible penthouse louvre dimensions.
- If the penthouse louvre has a dimension other than L x W = 1600 x 1600 mm, correct the sound production in accordance with table 4.

BDWN

Penthouse louvre
Limited height
Weatherproof vane

Available types
B D W N - O

B outside air
D penthouse louvre
W seawater-resistant aluminium
N starter frame for upstands

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

O not applicable

Available upstands
BDONAD: uninsulated, seawater-resistant
aluminium
BDONAR: insulated, seawater-resistant aluminium

Available uninsulated grommets
BDOKAD: seawater-resistant aluminium,
length = 500 mm

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 BDWN penthouse louvre is suitable for air supply
or discharge, has an extremely limited height and an
attractive design. The penthouse louvre is available to
extremely large dimensions in order to combine the air
supply or discharge for several ventilation systems. It is
possible to have the penthouse louvre as a combined
supply and discharge.

Characteristics
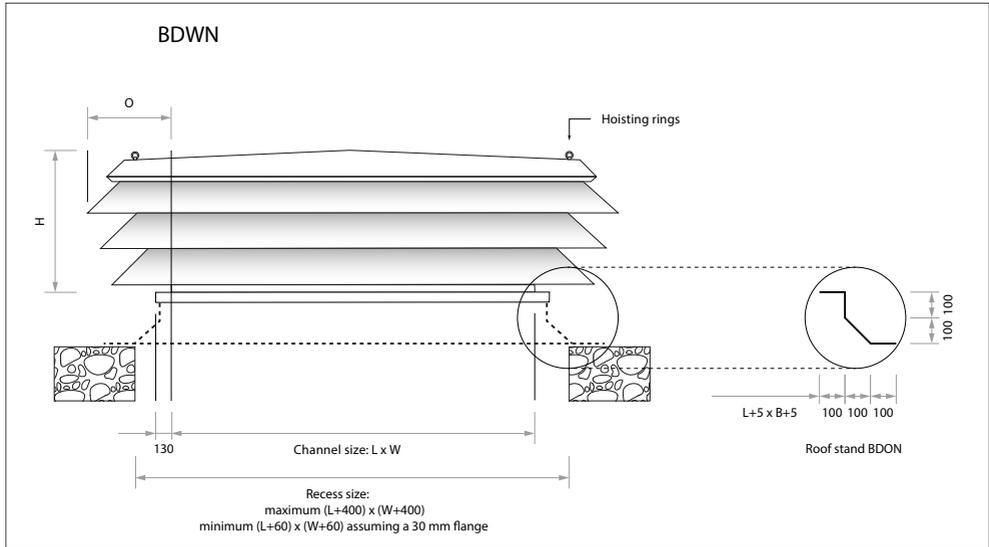Standard fitted with hoisting rings.

Version
Penthouse louvre
Material: seawater-resistant aluminium
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

BDWN

Hoisting rings

H

O

130

Channel size: L x W

Recess size:
maximum (L+400) x (W+400)
minimum (L+60) x (W+60) assuming a 30 mm flange

L+5 x B+5   100 100 100

100 100

Roof stand BDON

Available dimensions, sizes and weight

W		L									
		600	800	1000	1200	1400	1600	1800	2000	2200	2400
600	H	395	540	540	540	540	540	540	540	540	685
	O	275	320	320	320	320	320	320	320	320	370
	kg	12	19	22	25	28	30	33	36	38	51
800	H		540	540	540	685	685	685	685	685	685
	O		320	320	320	370	370	370	370	370	370
	kg		22	25	28	39	42	46	49	53	56
1000	H			540	685	685	685	685	830	830	830
	O			320	370	370	370	370	415	415	415
	kg			28	39	43	47	50	64	69	73
1200	H				685	685	830	830	830	830	830
	O				370	370	415	415	415	415	415
	kg				43	47	61	65	70	74	78
1400	H					830	830	830	830	830	975
	O					415	415	415	415	415	465
	kg					61	65	70	75	80	97
1600	H						830	830	975	975	975
	O						415	415	465	465	465
	kg						70	75	92	98	103
1800	H							975	975	975	975
	O							465	465	465	465
	kg							93	98	104	110

Note
• The listed dimensions are in mm.

Selection details

BDWNG

Table 1.1: Supply (with L x W = 1200 x 1200 mm)

	V	3	4	5	6	7	m/s
BDWNGO	$Δp_s$	19	**33**	52	75	101	Pa
	L_{pA}	32	**41**	48	53	58	dB(A)

Table 1.2: Discharge (with L x W = 1200 x 1200 mm)

	V	3	4	5	6	7	m/s
BDWNGO	$Δp_s$	9	15	**24**	35	47	Pa
	L_{pA}	33	42	**49**	54	59	dB(A)

Table 2: Required passage surface

air volume		m/s					
		2	3	4	5	6	7
m^3/s	m^3/h	m^2	m^2	m^2	m^2	m^2	m^2
0.60	**2160**	0.30	0.20	**0.15**	**0.12**	0.10	0.09
0.80	**2880**	0.40	0.27	**0.20**	**0.16**	0.13	0.11
1.00	**3600**	0.50	0.33	**0.25**	**0.20**	0.17	0.14
1.50	**5400**	0.75	0.50	**0.38**	**0.30**	0.25	0.21
2.00	**7200**	1.00	0.67	**0.50**	**0.40**	0.33	0.29
2.50	**9000**	1.25	0.83	**0.63**	**0.50**	0.42	0.36
3.00	**10800**	1.50	1.00	**0.75**	**0.60**	0.50	0.43
4.00	**14400**	2.00	1.33	**1.00**	**0.80**	0.67	0.57
5.00	**18000**	2.50	1.67	**1.25**	**1.00**	0.83	0.71
6.00	**21600**	3.00	2.00	**1.50**	**1.20**	1.00	0.86
8.00	**28800**	4.00	2.67	**2.00**	**1.60**	1.33	1.14
10.00	**36000**		3.33	**2.50**	**2.00**	1.67	1.43
15.00	**54000**			**3.75**	**3.00**	2.50	2.14
20.00	**72000**				**4.00**	3.33	2.86
25.00	**90000**					4.17	3.57
30.00	**108000**						4.29

▢ Preferred range

Table 3: Passage and penthouse louvre height

W		L									
		600	800	1000	1200	1400	1600	1800	2000	2200	2400
600	H	395	540	540	540	540	540	540	540	685	685
	m^2	0.36	0.48	0.60	0.72	0.84	0.96	1.08	1.20	1.32	1.44
800	H		540	540	540	685	685	685	685	685	685
	m^2		0.64	0.80	0.96	1.12	1.28	1.44	1.60	1.76	2.00
1000	H			540	685	685	685	685	830	830	830
	m^2			1.00	1.20	1.40	1.60	1.80	2.00	2.20	2.40
1200	H				685	685	830	830	830	830	830
	m^2				1.44	1.68	1.92	2.16	2.40	2.64	2.88
1400	H					830	830	830	830	975	975
	m^2					1.96	2.24	2.52	2.80	3.08	3.36
1600	H						830	830	975	975	975
	m^2						2.56	2.88	3.20	3.52	3.84
1800	H							975	975	975	1120
	m^2							3.24	3.60	3.96	4.32

Note

• The listed dimensions are in mm.

Table 4: Sound correction for different dimensions

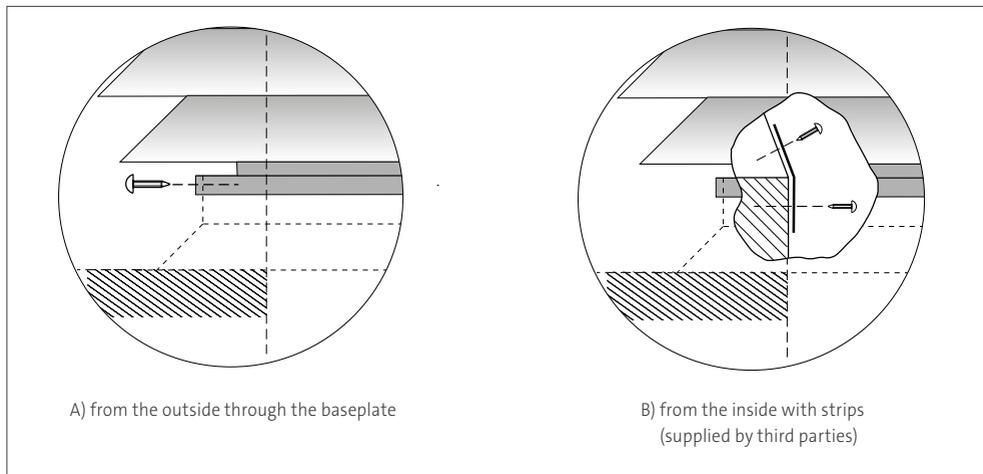| W	L									
	600	800	1000	1200	1400	1600	1800	2000	2200	2400
	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB
600	-6	-5	-4	-3	-2	-2	-1	-1	0	0
800	-5	-4	-3	-2	-1	-1	0	0	1	1
1000	-4	-3	-2	-1	0	0	1	1	2	2
1200	-3	-2	-1	0	1	1	2	2	3	3
1400	-2	-1	0	1	1	2	2	3	3	4
1600	-2	-1	0	1	2	2	3	3	4	4
1800	-1	0	1	2	2	3	4	4	4	5

Note
• The maximum inflow speed is limited at 4 m/s in connection with the weatherproof limit.
• However, blow-through means the weatherproofness of penthouse louvres is not solely dependent on the inflow speed. It is recommended to fit a drainage option in the connecting duct.
• The given height is the optimum height. Lowering the penthouse louvre produces too much reduction in the passage. Increasing it produces an inefficient cost increase.
• $LpA = LwA - 10$ dB.
• The sound pressure LpA is given for a penthouse louvre dimension of L x W x H = 1200 x 1200 x 685 mm. For correction with a different dimension, please refer to the sound correction table 4.
• The listed dimensions are in mm.

Selection example
• Determine the speed by using table 1 and the pressure loss and sound production that is deemed permissible.
• In combination with the air volume, table 2 is used to determine the required passage.
• Table 3 then provides the possible penthouse louvre dimensions.
• If the penthouse louvre has a dimension other than L x W = 1200 x 1200 mm, correct the sound production in accordance with table 4.

Fitting

A) from the outside through the baseplate

B) from the inside with strips (supplied by third parties)

2025_02_v1

BMXN/BMXT

Weather louvre
Steel
Weatherproof vane

Available types
B M X - - -

B weather louvre
M wall louvre
X rolled sendzimir galvanised steel vane 60 mm

- Frame
  N sendzimir galvanised steel frame 45 mm, fixed
  T sendzimir galvanised steel frame, without flange

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

- Accessories
  O none
  I mounting frame, sendzimir galvanised steel
     (BMXN only)

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 BMX- weather louvre is suitable for air supply or discharge. The BMXN louvre can be fitted in the external wall with a mounting frame; see note. The BMXT louvre does not have a flange.

Characteristics
Free flow: 20 - 55 % (depending on the height)
Weight: approx. 30 kg/m^2

Version
Weather louvre
Frame: sendzimir galvanised steel
Vanes: sendzimir galvanised steel
Post-treatment: none
Mesh: 19 x 19 mm, galvanised

Optional
Insect mesh*:   stainless steel, 2 x 2 mm
Mounting frame: sendzimir galvanised steel
Mounting holes: Ø 4.5 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

BMXN

W - 8.8

W + 70

63

60

H-7

17

58 5

100

H + 80

Standard mesh

Recess size: H

Assembly holes Ø 6 mm (optional)

Additional assembly holes Ø 6 mm if W or H ≥ 580 mm (optional)

Recess size: W

45

5

63

BMXN

2025_07_v1

Dimensions

BMXT

Standard mesh

68

W - 4

60

H - 4

Recess size: H

Recess size: W

20

68

BMXT

Standard dimensions

H	W								
	425	625	825	1025	1225	1425	1625	1825	2025
325	■	■	■	■	■	■	■	■	■
525	■	■	■	■	■	■	■	■	■
825	■	■	■	■	■	■	■	■	■
1025	■	■	■	■	■	■	■	■	■
1225	■	■	■	■	■	■	■	■	■
1425	■	■	■	■	■	■	■	■	■
1625	■	■	■	■	■	■	■	■	■
1825	■	■	■	■	■	■	■	■	■
2025	■	■	■	■	■	■	■	■	■

Available dimensions
- Interim sizes available in increments of 5 mm.
- Larger dimensions (W max. = 4000, H max. 2025)
  are available on request (2-part).

Note
- It is recommended to fit a drainage option in the
  duct behind the louvres.
- BMXT is suitable for flush mounting. Remember
  the drainage facilitywhen the louvre is flush mounted
  in an external wall.
- The listed dimensions are in mm.
- Recess size: W x H (with a mounting frame, the recess
  is W + 10 x H + 10).

2025_07_v1

Selection details

BMX-G

air volume		required free flow in m²											
		0.05		0.06		0.08		0.1		0.125		0.15	
m³/s	m³/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)
0.080	288	5	5										
0.100	360	8	10	6	6								
0.150	540	19	21	13	17	7	11	5	6				
0.200	720	33	28	23	25	13	18	8	13	5	9	4	5
0.250	900	51	34	36	30	20	24	13	19	8	14	6	10
0.300	1080	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 m²																					
		0.2		0.25		0.3		0.4		0.5		0.6		0.8		1.0		1.25		1.5		2	
m³/s	m³/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		

Preferred range (approx. 4 m/s over net surface).

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:

  Δ_{pt} = table value x 1.2.

  L_{pA} = table value + 5 dB.

Free flow

H	W								
	425	**625**	**825**	**1025**	**1225**	**1425**	**1625**	**1825**	**2025**
	m²	m²	m²	m²	m²	m²	m²	m²	m²
325	0.0388	0.0580	0.0772	0.0964	0.1156	0.1348	0.1540	0.1732	0.1924
525	0.0905	0.1353	0.1801	0.2249	0.2697	0.3145	0.3593	0.4041	0.4489
825	0.1551	0.2319	0.3087	0.3855	0.4623	0.5391	0.6159	0.6927	0.7695
1025	0.1939	0.2899	0.3859	0.4819	0.5779	0.6739	0.7699	0.8659	0.9619
1225	0.2327	0.3479	0.4631	0.5783	0.6935	0.8087	0.9239	1.0391	1.1543
1425	0.2844	0.4252	0.5660	0.7068	0.8476	0.9884	1.1292	1.2700	1.4108
1625	0.3232	0.4832	0.6432	0.8032	0.9632	1.1232	1.2832	1.4432	1.6032
1825	0.3620	0.5412	0.7204	0.8996	1.0788	1.2580	1.4372	1.6164	1.7956
2025	0.4137	0.6185	0.8233	1.0281	1.2329	1.4377	1.6425	1.8473	2.0521

4

BMYN/BMYT

Weather louvre
Aluminium
Weatherproof vane

Available types
B M Y - - -

B weather louvre
M wall louvre
Y anodised aluminium vane 50 mm

- Frame
 N anodised aluminium frame 40 mm, fixed
 T seawater-resistant aluminium frame,
    without flange

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

- Accessories
 O none
 I mounting frame, sendzimir galvanised steel
    (BMYN only)

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 BMY- weather louvre is suitable for air supply or discharge. The BMYN louvre can be fitted in the external wall with a mounting frame; see note. The BMYT louvre does not have a flange.

Characteristics
Free flow: 20 - 55 % (depending on the height)
Weight: approx. 15 kg/m^2

Version
Weather louvre
Frame: BMYN: anodised aluminium
               BMYT: seawater-resistant
Aluminium
Vanes: anodised aluminium
Post-treatment: BMYN: none
               BMYT: RAL colour of your choice
Mesh: 19 x 19 mm, galvanised

Optional
Insect mesh*:   stainless steel, 2 x 2 mm
Mounting frame: sendzimir galvanised steel
Mounting holes: Ø 4.5 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

BMYN

W - 5.8

Standard mesh

53

W + 65

50

H - 12

H + 65

Recess size: H

12.6

48   5

65

Assembly holes Ø 4,5 mm recessed (optional)

Additional assembly holes Ø 4,5 mm recessed if W or H ≥ 580 mm (optional)

Recess size: W

40

5

53

BMYN

Dimensions

BMYT

52

50

W - 9

H - 9

Standard mesh

Recess size: H

20

50

Recess size: W

BMYT
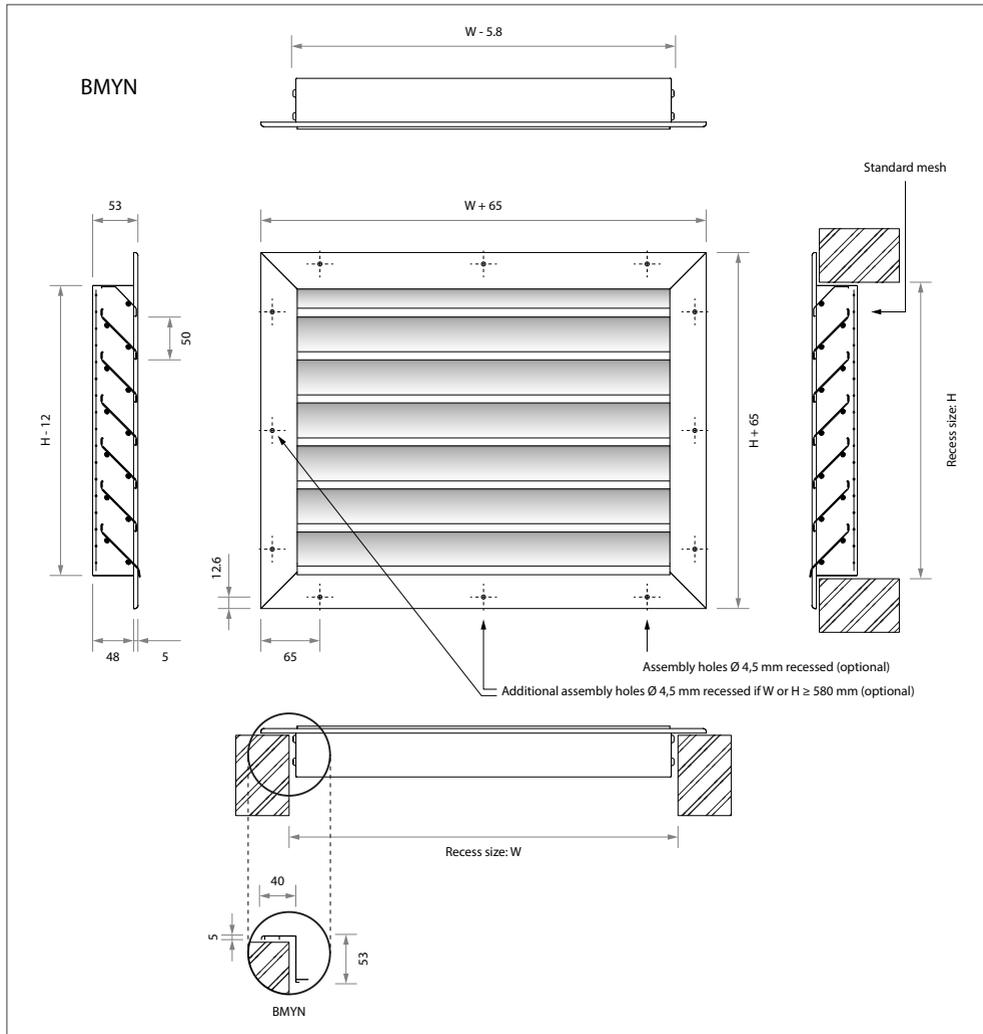
Standard dimensions
Available dimensions

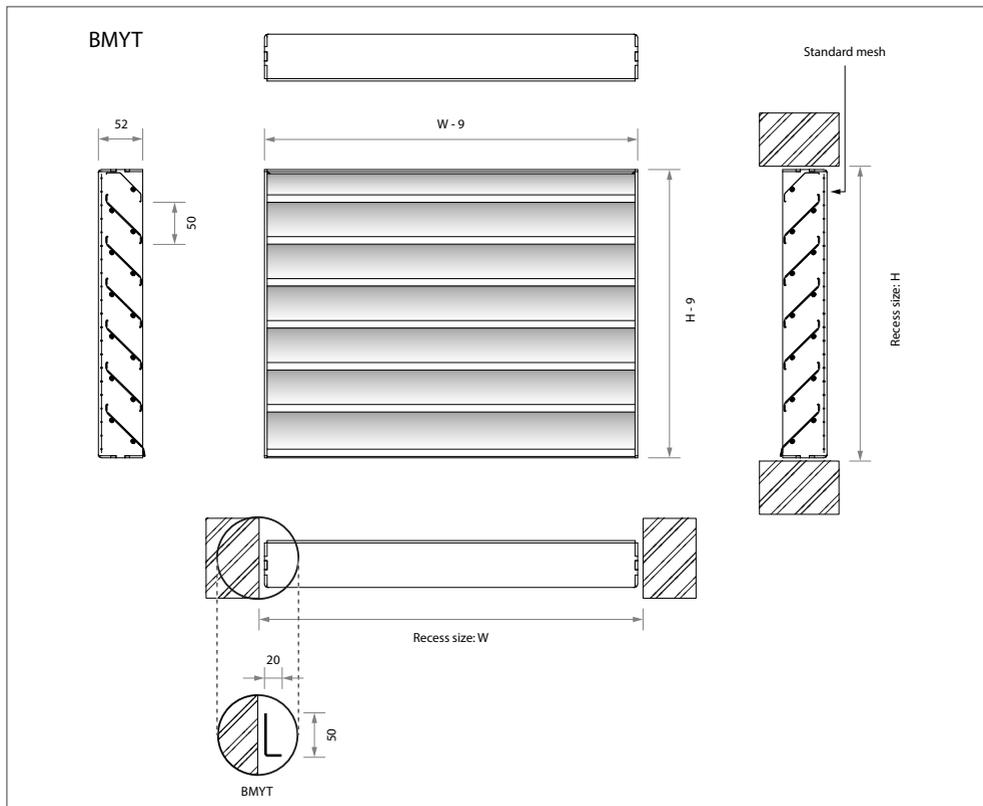| H	W								
	425	625	825	1025	1225	1425	1625	1825	2025
325	■	■	■	■	■	■	■	■	■
525	■	■	■	■	■	■	■	■	■
825	■	■	■	■	■	■	■	■	■
1025	■	■	■	■	■	■	■	■	■
1225	■	■	■	■	■	■	■	■	■
1425	■	■	■	■	■	■	■	■	■
1625	■	■	■	■	■	■	■	■	■
1825	■	■	■	■	■	■	■	■	■
2025	■	■	■	■	■	■	■	■	■

- Width min. 300, max. 2025.
- Height min. 300, max. 2025.
- Interim widths and heights available in increments of 5 mm.
- Larger dimensions up to WxH 4000x2025 mm are available on request (delivered in two parts). Louvres in parts must always be provided with a finish in RAL color of choice.

- For sizes larger than WxH 4000x2025 mm, please consult the documentation of the louvre type BMZN.

Note
- When the BMYN-I with mounting frame (cross-section 60 x 30 x 2 mm) is used, the recess must be made 10 mm larger than the nominal W x H louvre size.
- It is recommended to fit a drainage option in the duct behind the louvres.
- BMYT is suitable for flush mounting. Remember the drainage facility when the louvre is flush mounted in an external wall.
- The listed dimensions are in mm.
- Recess size: W x H.

Selection details

BMY-G

air volume		required free flow in m²											
		0.05		0.06		0.08		0.1		0.125		0.15	
m³/s	m³/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)
0.080	288	5	5										
0.100	360	8	10	6	6								
0.150	540	19	21	13	17	7	11	5	6				
0.200	720	33	28	23	25	13	18	8	13	5	9	4	5
0.250	900	51	34	36	30	20	24	13	19	8	14	6	10
0.300	1080	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 m²																						
		0.2		0.25		0.3		0.4		0.5		0.6		0.8		1.0		1.25		1.5		2	
m³/s	m³/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

Preferred range (approx. 4 m/s over net surface).

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:
  $Δ_{pt}$ = table value x 1.2.
  L_{pA} = table value + 5 dB.

Free flow

H	W								
	425	**625**	**825**	**1025**	**1225**	**1425**	**1625**	**1825**	**2025**
	m²	m²	m²	m²	m²	m²	m²	m²	m²
325	0.0426	0.0634	0.0842	0.1050	0.1258	0.1466	0.1674	0.1882	0.2090
525	0.0853	0.1269	0.1685	0.2101	0.2517	0.2933	0.3349	0.3765	0.4181
825	0.1492	0.2220	0.2948	0.3676	0.4404	0.5132	0.5860	0.6588	0.7316
1025	0.1919	0.2855	0.3791	0.4727	0.5663	0.6599	0.7535	0.8471	0.9407
1225	0.2345	0.3489	0.4633	0.5777	0.6921	0.8065	0.9209	1.0353	1.1497
1425	0.2772	0.4124	0.5476	0.6828	0.8180	0.9532	1.0884	1.2236	1.3588
1625	0.3198	0.4758	0.6318	0.7878	0.9438	1.0998	1.2558	1.4118	1.5678
1825	0.3624	0.5392	0.7160	0.8928	1.0696	1.2464	1.4232	1.6000	1.7768
2025	0.4051	0.6027	0.8003	0.9979	1.1955	1.3931	1.5907	1.7883	1.9859

4

2025_05_v1

BMZN

Weather louvre (customised)
Aluminium
Weatherproof vane

Available types
B M Z N - -

B weather louvre
M wall louvre
Z anodised aluminium vane 66 mm
N anodised aluminium frame 50 mm, fixed

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

- Accessories
  I burglar protection
  W drainage duct (only in combination with stainless steel insect mesh)
  X burglar protection + drainage duct (only in combination with stainless steel insect mesh)
  O none

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 BMZN louvre is suitable for air supply or discharge. The louvre is available as a customised alternative to the BMYN louvre. The louvre can be combined to extremely large sizes by putting together two or more segments. The maximum segment size is 6 metres wide and 2.4 metres high in connection with transport. The louvre is also available in different shapes, such as: triangle, round, trapezium. Diffusers in different shapes are welded and therefore should always be spray painted in color. Standard composite louvres are also available to W x H = 4000 x 2025 mm in the more economical BMYN version.

Characteristics
Free flow: 53 %
Fixed blind vanes*: 66 mm
Weight: approx. 16.5 kg/m^2

*At the top of the louvre, any remaining space is covered with an insert.
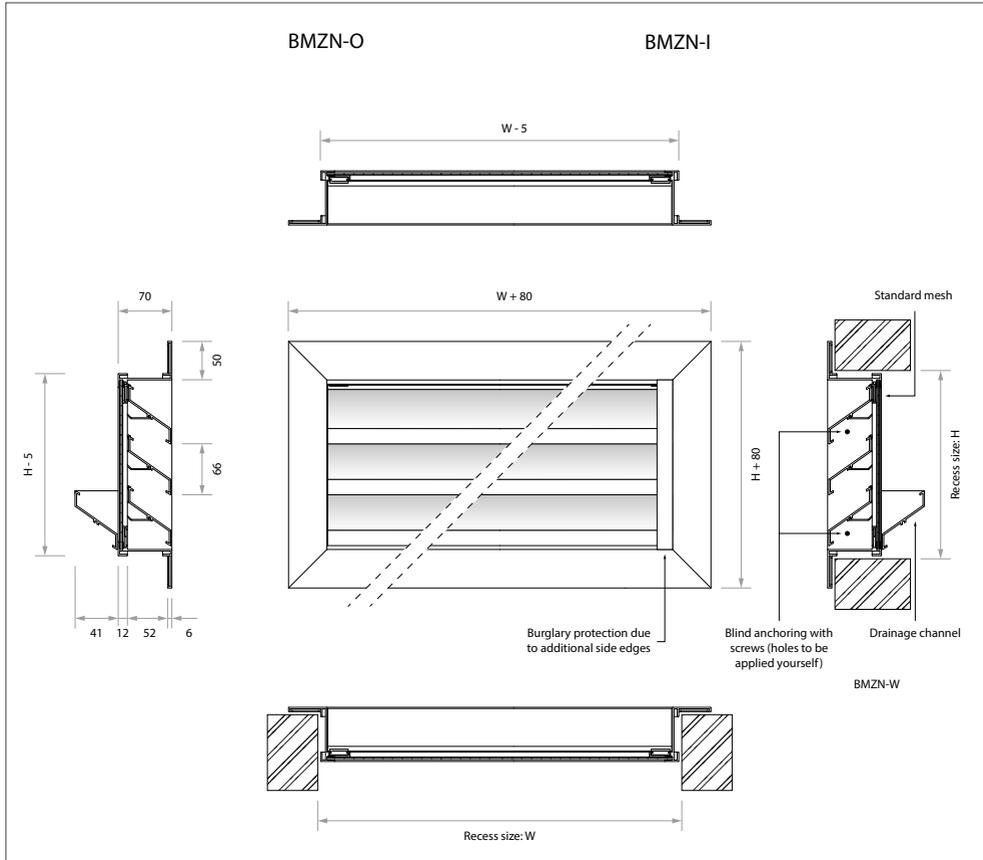
Version
Weather louvre
Frame: anodised aluminium
Vanes: anodised aluminium
Post-treatment: none
Mesh: 10 x 10 mm, galvanised

Optional
Insect mesh*: stainless steel, 1.4 x 1.4 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

BMZN-O   BMZN-I

W - 5

70

W + 80

Standard mesh

50

66

H - 5

H + 80

Recess size: H

41 12 52 6

Burglary protection due
to additional side edges

Blind anchoring with
screws (holes to be
applied yourself)

Drainage channel

BMZN-W

Recess size: W

Formats
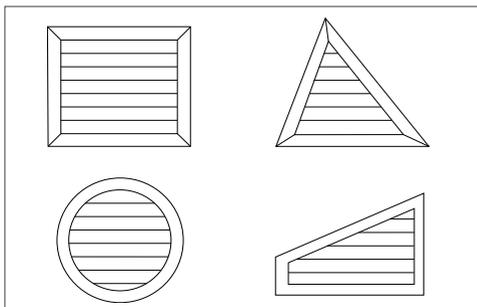
The maximum width and height may cover the façade.

Note

• The listed dimensions are in mm.
• W x H is the recess size.
• Blind anchoring with screws requires the removal of
  one vane, following which a hole can be drilled in the
  frame; see right view above. After fitting the louvre, the
  removed vane can be put back and will cover the screw.
• When burglar protection is used, the louvre needs to be
  fitted from the inside.
• It is recommended to fit a drainage option in the duct
  behind the louvres. At the front, the standard drainage
  duct discharges to the outside below the lowest vane.

Selection details
BMZNG

air volume		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)
0.080	288	5	5										
0.100	360	8	10	6	6								
0.150	540	19	21	13	17	7	11	5	6				
0.200	720	33	28	23	25	13	18	8	13	5	9	4	5
0.250	900	51	34	36	30	20	24	13	19	8	14	6	10
0.300	1080	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		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

▢ Preferred range (approx. 4 m/s over net surface).

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:
  Δ_{pt} = table value x 1,2.
  L_{pA} = table value + 5 dB.

Free flow

H	W												
	425	**625**	**825**	**1025**	**1225**	**1425**	**1625**	**1825**	**2025**	**3025**	**4025**	**5025**	**6000**
	m²	m²	m²	m²	m²	m²	m²	m²	m²	m²	m²	m²	m²
325	0.0522	0.0775	0.1026	0.1279	0.1531	0.1783	0.2035	0.2287	0.2538	0.3791	0.5044	0.6298	0.7551
525	0.1026	0.1520	0.2015	0.2509	0.3003	0.3498	0.3992	0.4487	0.4981	0.7440	0.9900	1.2360	1.4820
825	0.1792	0.2656	0.3520	0.4384	0.5248	0.6112	0.6976	0.7840	0.8704	1.3002	1.7300	2.1599	2.5597
1025	0.2232	0.3308	0.4384	0.5460	0.6536	0.7612	0.8688	0.9764	1.0840	1.6193	2.1546	2.6898	3.2118
1225	0.2672	0.3960	0.5248	0.6536	0.7824	0.9112	1.0400	1.1688	1.2976	1.9383	2.5791	3.2199	3.8447
1425	0.3854	0.4612	0.6112	0.7612	0.9112	1.0612	1.2112	1.3612	1.5112	2.2574	3.0036	3.7499	4.4774
1625	0.3552	0.5264	0.6976	0.8688	1.0400	1.2112	1.3824	1.5536	1.7247	2.5764	3.4281	4.2798	5.1102
1825	0.3992	0.5916	0.7840	0.9764	1.1688	1.3612	1.5536	1.7459	1.9383	2.8954	3.8526	4.8098	5.7431
2025	0.4432	0.6568	0.8704	1.0840	1.2976	1.5112	1.7247	1.9383	2.1519	3.2145	4.2771	5.3397	6.3758
2225	0.4919	0.7233	0.9548	1.1863	1.4178	1.6493	1.8807	2.1122	2.3437	3.5011	4.6585	5.8200	6.9444
2400	0.5411	0.7957	1.0503	1.3050	1.5596	1.8142	2.0609	2.3235	2.5781	3.8513	5.1245	6.3977	7.6390

4

2025_12_v1

BMUF/BMUD

Weather louvres
Burglar-proof version
Hot-dip galvanised

Available types
B M U - - Q

B weather louvre
M wall louvre
U set hot-dip galvanised steel vane 70 mm, with reinforcement strips

- **Frame**
  F wall mounting with U-profile frame and strips, for a wall thickness up to 270 mm
  D door mounting with holes in the flange

- **Mesh**
  Q mess, cold rolled (standard)
  S stainless steel insect mesh

Q burglar-proof blind mounting

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 BMU--Q weather louvre is suitable for air supply or discharge. The louvre is fitted in the wall with fixing strips and a corresponding counter frame. The BMUD-Q louvre has holes in the flange, so that carriage bolts can be used to mount it directly in a door.

Characteristics
Free flow: 20 - 55 % (depending on the height)
Weight: approx. 35 kg/m^2

Version
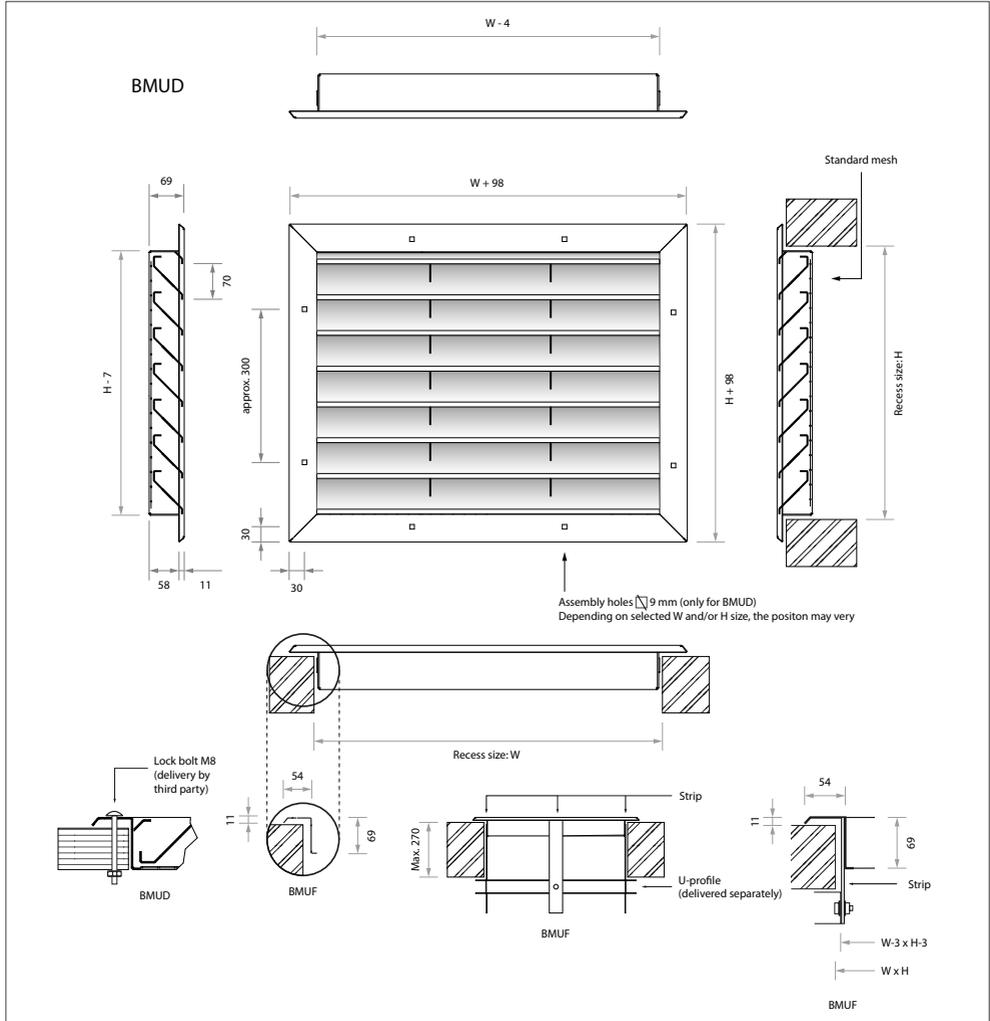Weather louvre
Frame: hot-dip galvanised steel
Vanes: hot-dip galvanised steel
Mesh: 10 x 10 mm, hot-dip galvanised steel

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.

2024_05_v4

Dimensions

BMUD

W - 4

W + 98

Standard mesh

69

70

H - 7

approx. 300

H + 98

Recess size: H

30

58　11

30

Assembly holes ◇ 9 mm (only for BMUD)
Depending on selected W and/or H size, the positon may very

Lock bolt M8
(delivery by
third party)

54

11

69

Recess size: W

Max. 270

Strip

U-profile
(delivered separately)

54

11

69

Strip

BMUD

BMUF

BMUF

W-3 x H-3

W x H

BMUF

Standard dimensions

H	B								
	425	625	825	1025	1225	1425	1625	1825	2025
325	■	■	■	■	■	■	■	■	■
525	■	■	■	■	■	■	■	■	■
825	■	■	■	■	■	■	■	■	■
1025	■	■	■	■	■	■	■	■	■
1225	■	■	■	■	■	■	■	■	■
1425	■	■	■	■	■	■	■	■	■
1625	■	■	■	■	■	■	■	■	■
1825	■	■	■	■	■	■	■	■	■
2025	■	■	■	■	■	■	■	■	■

Note

- The louvre is fully hot-dip galvanized with a minimum zinc layer thickness according to NEN EN ISO 1461 (not centrifuged, average thickness 55 µm, 395 g/m^2).
- It is recommended to fit a drainage option in the duct behind the louvres.
- Interim widths and heights available in increments of 5 mm.
- The listed dimensions are in mm.
- Recess size: W x H.

2024_05_v4

Selection details
BMU-Q

air volume		required free flow in m^2											
		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)
0.080	288	5	5										
0.100	360	8	10	6	6								
0.150	540	19	21	13	17	7	11	5	6				
0.200	720	33	28	23	25	13	18	8	13	5	9	4	5
0.250	900	51	34	36	30	20	24	13	19	8	14	6	10
0.300	1080	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

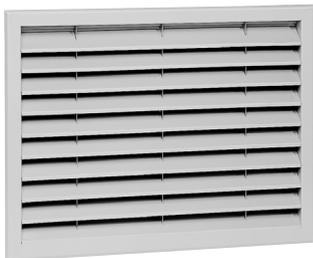Preferred range (approx. 4 m/s over net surface).

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:
  Δ_{pt} = table value x 1.2.
  L_{pA} = table value + 5 dB.

Free flow

H	W								
	425	**625**	**825**	**1025**	**1225**	**1425**	**1625**	**1825**	**2025**
	m²	m²	m²	m²	m²	m²	m²	m²	m²
325	0.0488	0.0738	0.0988	0.1238	0.1488	0.1738	0.1988	0.2238	0.2488
525	0.0878	0.1328	0.1778	0.2228	0.2678	0.3128	0.3578	0.4028	0.4478
825	0.1463	0.2213	0.2963	0.3713	0.4463	0.5213	0.5963	0.6713	0.7463
1025	0.1853	0.2803	0.3753	0.4703	0.5653	0.6603	0.7553	0.8503	0.9453
1225	0.2243	0.3393	0.4543	0.5693	0.6843	0.7993	0.9143	1.0293	1.1443
1425	0.2633	0.3983	0.5333	0.6683	0.8033	0.9383	1.0733	1.2083	1.3433
1625	0.3023	0.4573	0.6123	0.7673	0.9223	1.0773	1.2323	1.3873	1.5423
1825	0.3413	0.5163	0.6913	0.8663	1.0413	1.2163	1.3913	1.5663	1.7413
2025	0.3803	0.5753	0.7703	0.9653	1.1603	1.3553	1.5503	1.7453	1.9403

BMUF-K

Weather louvre
Burglar-proof version
Blind fitting from the outside

Available types
B M U F - K

B weather louvre
M wall louvre
U set hot-dip galvanised steel vane 70 mm, with reinforcement strips
F frame 54 mm

- Mesh
   Q mess, cold rolled (standard)
   S stainless steel insect mesh

K burglar-proof blind mounting with a mounting frame with spring clips for click mounting the louvre

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 BMUFQK louvre is suitable for air supply or discharge. The louvre is mounted in the wall with a corresponding mounting frame with springs for click mounting the louvre. The louvre can be fitted from the outside of the building without disassembling the connection ducts. The louvre has been developed to replace existing, non burglar-proof, weather louvres.

Characteristics
Free flow: 20 - 55 % (depending on the height)
Weight: approx. 35 kg/m^2

Version
Weather louvre
Frame: hot-dip galvanised steel
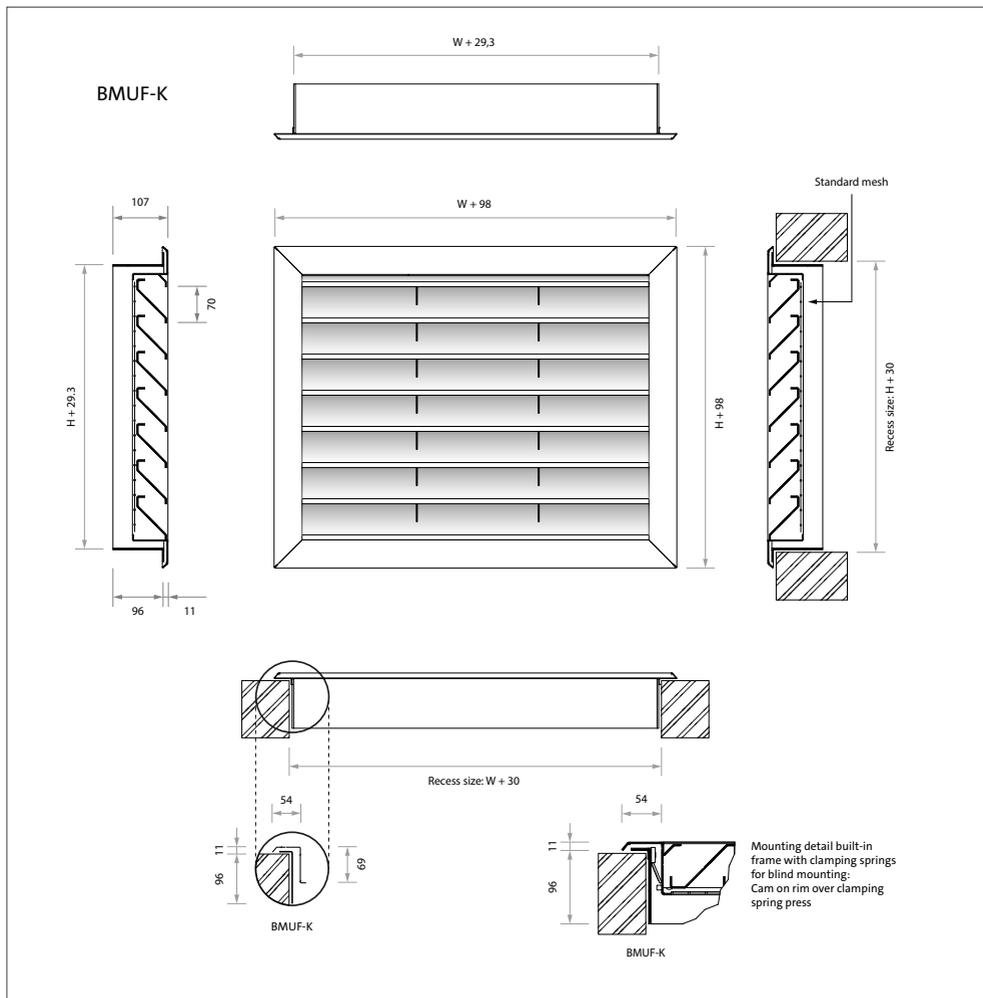Vanes: hot-dip galvanised steel
Mesh: 10 x 10 mm, hot-dip galvanised steel
Mounting frame: hot-dip galvanised steel
Spring clips: stainless steel, centre-to-centre 300 mm

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

BMUF-K

W + 29,3

W + 98

Standard mesh

107

70

H + 29.3

H + 98

Recess size: H + 30

96   11

Recess size: W + 30

54

54

96   11

69

96   11

BMUF-K

Mounting detail built-in frame with clamping springs for blind mounting:
Cam on rim over clamping spring press

BMUF-K

Standard dimensions

H	W								
	425	625	825	1025	1225	1425	1625	1825	2025
325	■	■	■	■	■	■	■	■	■
525	■	■	■	■	■	■	■	■	■
825	■	■	■	■	■	■	■	■	■
1025	■	■	■	■	■	■	■	■	■
1225	■	■	■	■	■	■	■	■	■
1425	■	■	■	■	■	■	■	■	■
1625	■	■	■	■	■	■	■	■	■
1825	■	■	■	■	■	■	■	■	■
2025	■	■	■	■	■	■	■	■	■

Available dimensions

• Interim widths and heights available in increments of 5 mm.

Opmerking

• The louvre is fully hot-dip galvanized with a minimum zinc layer thickness according to NEN EN ISO 1461 (not centrifuged, average thickness 55 µm, 395 g/m^2).
• It is recommended to fit a drainage option in the duct behind the louvres.
• The listed dimensions are in mm.
• Recess size: W + 30 x H + 30.

Selection details
BMUFQ

air volume		required free flow in m²											
		0.05		0.06		0.08		0.1		0.125		0.15	
m³/s	m³/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)
0.080	288	5	5										
0.100	360	8	10	6	6								
0.150	540	19	21	13	17	7	11	5	6				
0.200	720	33	28	23	25	13	18	8	13	5	9	4	5
0.250	900	51	34	36	30	20	24	13	19	8	14	6	10
0.300	1080	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 m²																				
		0.2		0.25		0.3		0.4		0.5		0.6		0.8		1.0		1.25		1.5		2	
m³/s	m³/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

Preffered range (approx. 4 m/s over net surface).

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:
  Δ_{pt} = table value x 1,2.
  L_{pA} = table value + 5 dB.

Free flow

H	W								
	425	**625**	**825**	**1025**	**1225**	**1425**	**1625**	**1825**	**2025**
	m²	m²	m²	m²	m²	m²	m²	m²	m²
325	0.0488	0.0738	0.0988	0.1238	0.1488	0.1738	0.1988	0.2238	0.2488
525	0.0878	0.1328	0.1778	0.2228	0.2678	0.3128	0.3578	0.4028	0.4478
825	0.1463	0.2213	0.2963	0.3713	0.4463	0.5213	0.5963	0.6713	0.7463
1025	0.1853	0.2803	0.3753	0.4703	0.5653	0.6603	0.7553	0.8503	0.9453
1225	0.2243	0.3393	0.4543	0.5693	0.6843	0.7993	0.9143	1.0293	1.1443
1425	0.2633	0.3983	0.5333	0.6683	0.8033	0.9383	1.0733	1.2083	1.3433
1625	0.3023	0.4573	0.6123	0.7673	0.9223	1.0773	1.2323	1.3873	1.5423
1825	0.3413	0.5163	0.6913	0.8663	1.0413	1.2163	1.3913	1.5663	1.7413
2025	0.3803	0.5753	0.7703	0.9653	1.1603	1.3553	1.5503	1.7453	1.9403

4

2024_05_v4

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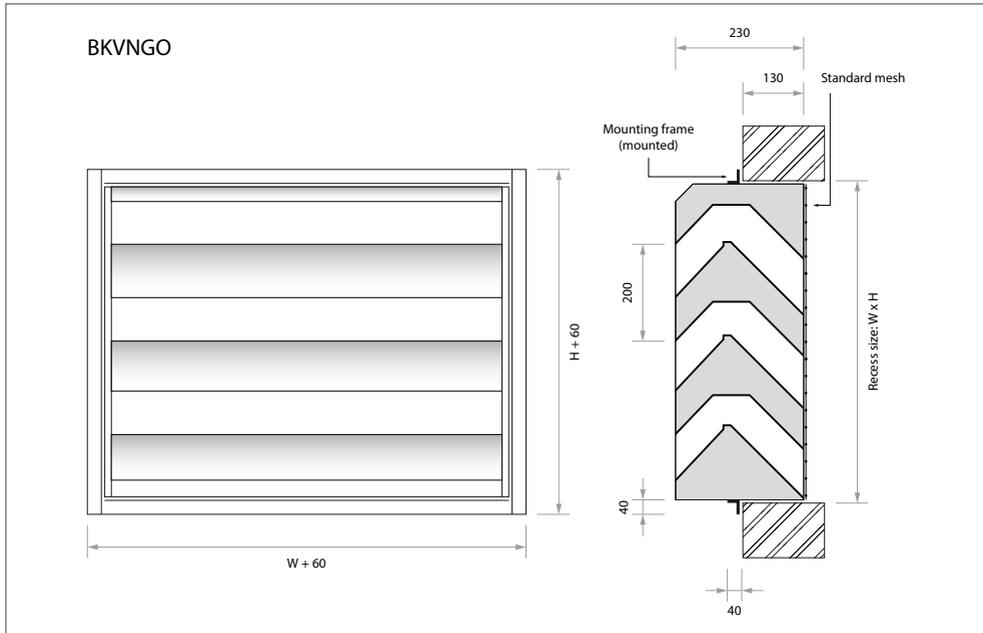Vanes: sendzimir galvanised steel
Attenuating material: mineral wool with
                       glass-fibre covering
Mesh: 19 x 19 mm, galvanised

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.

2024_05_v3

Dimensions

BKVNGO

Mounting frame (mounted)
Standard mesh
230
130
200
40
40
H + 60
W + 60
Recess size: W x H

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 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.

2024_05_v3

Selection details
BKVNG

air volume		required free flow in m²																				
		0.015		0.02		0.025		0.03		0.04		0.05		0.06		0.08		0.1		0.125		0.15	
m³/s	m³/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 m²																				
		0.2		0.25		0.3		0.4		0.5		0.6		0.8		1.0		1.25		1.5		2	
m³/s	m³/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:
  Δ_{pt} = table value x 1.2.
  L_{pA} = tabel value + 5 dB.

4

Free flow

H	B								
	320	**520**	**720**	**920**	**1120**	**1320**	**1520**	**1720**	**1920**
	m²	m²	m²	m²	m²	m²	m²	m²	m²
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

4

BMDRSO

Weather louvre
Aluminium

Available types
B M D R S O

B weather louvre
M wall louvre
D extruded aluminium
R round
S 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
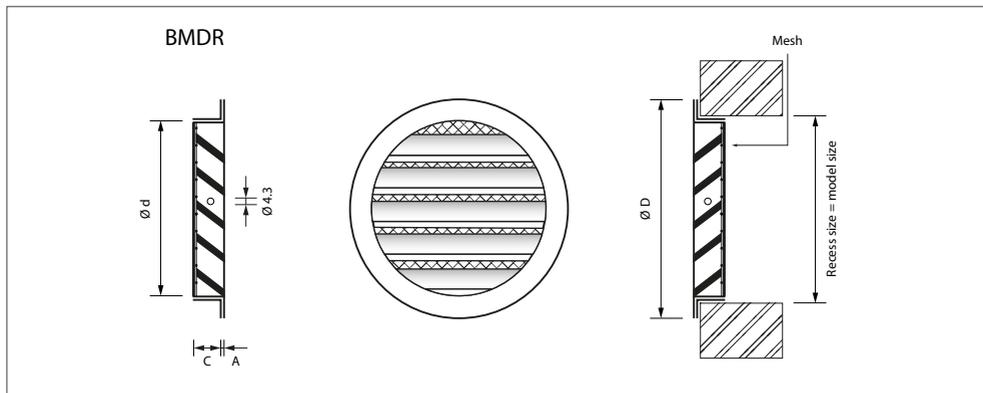The round BMDRSO weather louvre is suitable for air supply or discharge.

Characteristics
Free flow: approx. 72 %

Version
Weather louvre
Frame: aluminium
Vanes: aluminium
Post-treatment: none
Mesh: 10 x 10 mm, galvanised

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Dimensions

BMDR

Available dimensions, sizes and weights

model	d	D	A	C	kg
80	79	97	5	11	0.085
100	99	124	2	17	0.115
125	124	150	2	17	0.145
150	149	173	3	15	0.210
160	159	181	3	15	0.245
200	199	222	3.5	16.5	0.395
250	249	275	4	16	0.708
315	314	348	6.5	14.5	1.325
400	399	444	5	34	2.700
500	499	544	5	34	4.330

Note
• The listed dimensions are in mm.
• Also suitable for indoor use.

Fitting
• Depending on the use, sealant can be used.
• If mechanical strength is required, mount with a round duct in the recess.

Selection details
BMDRSO

air volume		model									
		80	100	125	150	160	200	250	315	400	500
m³/s	m³/h	Δpt Pa	Δpt Pa	Δpt Pa	Δpt Pa	Δpt Pa	Δpt Pa	Δpt Pa	Δpt Pa	Δpt Pa	Δpt Pa
0.010	36	31	9								
0.015	54	69	22	7							
0.020	72		40	12	7						
0.030	108		90	29	16	11					
0.040	144			52	29	20	7				
0.060	216				65	48	18	6			
0.080	288					90	30	11			
0.100	360						47	18	8		
0.150	540							45	16	6	
0.200	720							80	30	12	5
0.300	1080								80	31	13
0.400	1440									46	19

General
• It is permitted to interpolate the interim values.
• Pressure-loss data apply to drawing in air.

Correction data
• When air is discharged, the values in the table need to be corrected with the following factors:
Δ_{pt} = table value x 0.83

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