

## Description

The SHR is an air supply/exhaust grille designed for installation in a square duct wall. The air grille is fastened with dedicated clips included with the product. The grille is made of aluminium sheet without any tack or seam welds. It can be used without any anti-corrosion protection. The louvre blade angle is adjusted manually.

### Installation

1 - using the provided clips. Recommended use of the mounting frame

### Accessories

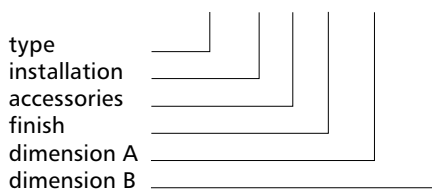
1 - double louvre blades

### Finish

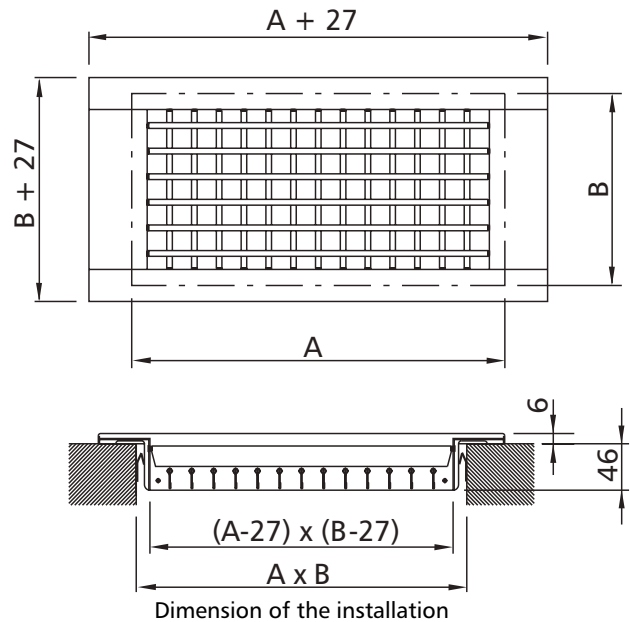
1 - aluminium sheet with RAL 9016 powder-coated finish

### Product code example

Product code: **SHR - 1 - 1 - 1 - aaa - bbb**



## Dimensions



Kod	Wymiar AxB [mm]	Powierzchnia czynna [m <sup>2</sup> ]
SHR-1-1-1-200-100	200x100	0,0098
SHR-1-1-1-200-150	200x150	0,0147
SHR-1-1-1-200-200	200x200	0,0196
SHR-1-1-1-225-125	225x125	0,0138
SHR-1-1-1-225-75	225x75	0,0083
SHR-1-1-1-250-150	250x150	0,0184
SHR-1-1-1-250-200	250x200	0,0245
SHR-1-1-1-250-250	250x250	0,0306
SHR-1-1-1-300-100	300x100	0,0152
SHR-1-1-1-300-150	300x150	0,0224
SHR-1-1-1-300-200	300x200	0,0299
SHR-1-1-1-325-125	325x125	0,0202
SHR-1-1-1-325-225	325x225	0,0364
SHR-1-1-1-400-200	400x200	0,0432
SHR-1-1-1-400-250	400x250	0,0540
SHR-1-1-1-400-300	400x300	0,0648
SHR-1-1-1-425-125	425x125	0,0287
SHR-1-1-1-425-225	425x225	0,0516
SHR-1-1-1-500-200	500x200	0,0547
SHR-1-1-1-500-250	500x250	0,0684
SHR-1-1-1-500-300	500x300	0,0821
SHR-1-1-1-525-125	525x125	0,0359
SHR-1-1-1-525-225	525x225	0,0646
SHR-1-1-1-600-150	600x150	0,0453
SHR-1-1-1-600-200	600x200	0,0640
SHR-1-1-1-600-250	600x250	0,0341
SHR-1-1-1-625-125	625x125	0,0182
SHR-1-1-1-625-225	625x225	0,0097

## Technical specifications

Selection table for specified sizes

Q [m <sup>3</sup> /h]	Typ	200 x 100	200 x 150	200 x 200	225 x 75	225 x 125	250 x 150	250 x 200	250 x 250	300 x 100	300 x 150	300 x 200	325 x 125	325 x 225	400 x 200
50	X [m]				2,90										
	La [dB]				< 35										
	Pt [Pa]				0,80										
100	X [m]				5,40	3,20							2,50		
	La [dB]				< 35	< 35							< 35		
	Pt [Pa]				2,40	1,00							0,80		
150	X [m]	2,60	2,30		7,80	4,60							3,90	2,20	
	La [dB]	22,10	< 20		< 35	< 35							< 35	< 35	
	Pt [Pa]	8,10	5,10		4,90	2,00							1,50	0,70	
200	X [m]	3,20	2,80	2,40	10,10	6,00	2,40	2,20	2,40	2,60			5,00	2,90	
	La [dB]	27,10	22,10	< 20	35,10	< 35	< 20	< 18	< 20	< 20			< 35	< 35	
	Pt [Pa]	13,10	8,10	4,10	8,10	3,20	4,10	2,10	5,54	7,10			2,40	1,10	
250	X [m]	4,00	3,50	2,90	12,10	7,70	2,90	2,50	2,60	3,20	2,70	2,50	3,70	3,00	2,50
	La [dB]	33,10	28,10	20,10	35,10	35,10	20,10	18,10	22,50	24,10	< 20	< 18	26,10	21,10	17,10
	Pt [Pa]	20,10	12,10	6,10	11,60	4,60	6,10	6,10	10,00	16,10	8,60	9,10	17,10	14,10	12,10
300	X [m]	4,70	4,20	3,50	14,50	8,50	3,50	2,90	3,10	3,90	3,20	3,10	7,10	4,10	3,10
	La [dB]	37,10	32,10	25,10	< 40	35,10	25,10	21,10	26,50	29,10	21,10	18,10	< 35	< 35	< 35
	Pt [Pa]	29,10	18,10	8,10	16,70	6,60	8,10	10,10	11,50	13,10	6,30	5,70	5,00	2,10	1,10
350	X [m]	5,50	4,90	4,10	4,10	4,10	4,10	3,10	3,60	4,10	3,70	3,20	4,30	3,90	3,50
	La [dB]	41,10	36,10	29,10	36,10	29,10	29,10	26,10	29,00	33,10	25,10	22,10	35,10	30,10	25,10
	Pt [Pa]	39,10	24,10	11,10	29,10	19,10	11,10	9,10	14,50	17,10	7,60	12,70	35,10	31,10	29,10
400	X [m]	6,30	5,60	4,60	18,50	10,80	4,60	4,10	4,50	5,10	4,20	3,80	9,00	5,20	3,00
	La [dB]	44,10	39,10	32,10	40,10	< 40	32,10	28,10	32,50	36,10	28,10	23,10	< 35	< 35	< 20
	Pt [Pa]	51,10	32,10	15,10	27,90	11,00	15,10	11,10	18,50	23,10	10,10	8,10	8,20	3,50	4,00
500	X [m]		6,90	5,70	22,30	13,00	5,70	5,40	5,90	6,40	5,20	4,90	10,70	6,30	3,80
	La [dB]		45,10	37,10	< 45	< 40	37,10	32,10	36,50	41,10	33,10	30,10	35,10	< 35	20,10
	Pt [Pa]		49,10	23,10	41,70	16,40	23,10	20,10	26,50	35,10	15,10	12,10	12,30	5,20	10,10
600	X [m]			6,90	26,00	15,10	6,90				6,20	6,10	12,40	7,30	4,50
	La [dB]			42,10	45,10	40,10	42,10				38,10	35,10	< 40	35,10	25,10
	Pt [Pa]			33,10	57,80	22,80	33,10				22,10	20,10	17,00	7,20	14,10
700	X [m]			8,00		17,20	8,00					7,20	6,70	14,10	8,30
	La [dB]			45,10		< 45	45,10				41,10	40,10	40,10	< 40	29,10
	Pt [Pa]			45,10		30,00	45,10				30,10	24,10	22,40	9,40	14,10
800	X [m]					19,20						7,50	15,70	9,30	6,00
	La [dB]					45,10						35,10	< 45	< 40	32,10
	Pt [Pa]					38,10						30,10	28,50	12,00	11,10
900	X [m]												17,20	10,10	6,70
	La [dB]												45,10	40,10	35,10
	Pt [Pa]												35,10	14,80	13,10
1000	X [m]												18,80	11,20	7,30
	La [dB]												< 50	< 45	37,10
	Pt [Pa]												42,50	17,80	17,10
1200	X [m]													13,00	8,90
	La [dB]													45,10	42,10
	Pt [Pa]													24,70	24,10
1400	X [m]													14,80	10,40
	La [dB]													< 50	45,10
	Pt [Pa]													32,60	32,10
1600	X [m]													16,50	
	La [dB]													50,10	
	Pt [Pa]													41,50	
1800	X [m]													18,20	
	La [dB]													< 55	
	Pt [Pa]													51,20	
2000	X [m]														
	La [dB]														
	Pt [Pa]														
2500	X [m]														
	La [dB]														
	Pt [Pa]														

X (m) — air flow range

P<sub>t</sub>(Pa) — pressure drop

L<sub>A</sub>(dB(A)) — sound pressure level

## Technical specifications

Selection table for specified sizes

Q [m <sup>3</sup> /h]	Typ	400 x 250	400 x 300	425 x 125	425 x 225	500 x 200	500 x 250	500 x 300	525 x 125	525 x 225	600 x 150	600 x 200	600 x 250	625 x 125	625 x 225
50	X [m]														
	La [dB]														
	Pt [Pa]														
100	X [m]			2,15											
	La [dB]			< 35											
	Pt [Pa]			0,55											
150	X [m]			3,05	3,95				2,75					2,25	
	La [dB]			< 35	< 35				< 35					< 35	
	Pt [Pa]			1,05	0,55				0,85					0,75	
200	X [m]			3,85	4,75				3,45	4,05				2,95	3,35
	La [dB]			< 35	< 35				< 35	< 35				< 35	< 35
	Pt [Pa]			1,75	0,85				1,45	0,65				1,15	0,45
250	X [m]			3,65	4,35				4,05	4,55				2,75	3,15
	La [dB]			< 35	< 35				< 35	< 35				< 35	< 35
	Pt [Pa]			2,35	1,95				2,55	2,25				2,35	3,75
300	X [m]			5,45	6,05				4,95	5,15				4,15	4,35
	La [dB]			< 35	< 35				< 35	,35				< 35	< 35
	Pt [Pa]			3,35	1,55				2,75	1,15				2,15	0,85
350	X [m]			6,35	6,65				5,65	5,85				5,65	5,45
	La [dB]			< 35	< 35				< 35	< 35				< 35	< 35
	Pt [Pa]			6,05	2,15				4,35	2,35				2,45	1,65
400	X [m]	2,55	2,65	6,85	7,15				6,25	6,05				5,25	5,15
	La [dB]	< 14	< 14	< 35	< 35				< 35	< 35				< 35	< 35
	Pt [Pa]	6,25	6,35	5,55	2,45				4,55	1,85				3,55	1,25
500	X [m]	3,34	3,45	8,15	8,15	3,45	3,60	3,75	7,55	6,85	3,05	3,15	4,50	6,35	5,75
	La [dB]	18,05	18,15	< 35	< 35	< 20	< 20	< 20	< 35	< 35	< 18	< 20	< 20	< 35	< 35
	Pt [Pa]	9,05	9,15	8,25	3,55	3,15	4,60	6,15	6,65	2,65	2,05	2,15	3,50	5,25	1,85
600	X [m]	4,10	4,25	9,45	8,95	4,05	4,15	4,85	8,75	7,65	3,45	3,75	5,50	7,35	6,45
	La [dB]	22,05	22,15	35,15	< 35	20,15	22,50	24,50	35,15	< 35	< 18	< 20	< 20	35,15	< 35
	Pt [Pa]	12,05	12,15	11,35	4,95	4,15	7,50	8,15	9,25	3,65	3,10	3,15	4,50	7,25	2,55
700	X [m]	5,05	5,25	10,65	9,75	4,75	5,15	4,85	9,95	8,35	4,10	4,35	6,80	8,35	7,05
	La [dB]	22,15	23,15	< 40	35,15	24,15	25,60	46,50	< 40	< 35	20,10	20,15	24,50	< 40	< 35
	Pt [Pa]	9,85	10,15	14,95	6,45	5,15	5,55	5,45	12,15	4,75	3,10	3,15	4,50	9,45	3,25
800	X [m]	5,15	5,35	11,85	10,55	5,35	5,85	5,95	11,05	8,95	4,65	4,95	6,50	9,35	7,55
	La [dB]	29,85	30,15	40,15	< 40	27,15	29,00	31,15	40,15	35,15	22,15	24,15	< 40	< 40	< 35
	Pt [Pa]	6,85	7,15	19,05	8,15	7,15	7,40	8,25	15,35	5,95	5,05	5,15	9,50	12,05	4,15
900	X [m]	6,10	6,25	12,95	11,25	6,05	6,25	6,35	12,25	9,65	5,40	5,55	8,50	10,15	8,15
	La [dB]	30,05	30,15	< 45	< 40	30,15	31,00	32,15	< 45	< 40	24,50	26,15	32,50	40,15	35,15
	Pt [Pa]	9,95	10,15	23,45	10,05	8,15	8,40	9,15	18,95	7,35	5,95	6,15	9,50	14,85	5,05
1000	X [m]	6,95	7,15	14,15	11,95	6,65	6,95	7,55	12,15	10,15	6,08	6,05	9,50	11,25	8,65
	La [dB]	31,15	32,15	< 45	40,15	33,15	34,50	35,65	< 45	< 40	27,50	29,15	< 45	< 45	< 40
	Pt [Pa]	12,15	14,15	28,35	12,15	10,15	10,25	12,50	22,85	8,85	6,95	7,15	14,50	17,85	6,15
1200	X [m]	8,05	8,35	16,35	13,25	7,95	8,15	9,50	15,55	11,35	7,10	7,25	12,00	13,05	9,55
	La [dB]	37,15	39,15	45,15	< 45	37,15	37,95	39,15	45,15	40,15	31,15	33,15	39,50	45,15	< 40
	Pt [Pa]	19,55	20,15	39,35	16,75	15,15	15,65	16,15	31,75	12,15	9,85	10,15	16,50	24,75	8,45
1400	X [m]	9,85	10,15	18,45	14,45	10,05	10,45	12,45	17,65	12,35	8,45	8,45	12,50	14,85	10,45
	La [dB]	40,05	41,15	< 50	45,15	41,15	42,56	42,98	< 50	< 45	35,45	37,15	< 50	< 50	< 40
	Pt [Pa]	26,55	28,15	51,85	22,05	20,15	20,45	22,50	41,85	16,05	13,50	14,15	28,50	32,65	11,15
1600	X [m]				15,65					13,35	11,00	11,15	12,50	16,55	11,35
	La [dB]				< 50					45,15	29,10	31,15	45,60	50,15	40,15
	Pt [Pa]				28,05					20,35	14,50	16,15	32,50	41,55	14,05
1800	X [m]				16,75					14,25	8,50	10,85	16,50	18,25	12,15
	La [dB]				50,15					< 50	40,15	43,15	< 55	< 55	< 45
	Pt [Pa]				34,65					25,15	20,15	23,15	39,50	51,25	17,15
2000	X [m]				17,75					15,15	10,05	12,05	14,50		12,85
	La [dB]				< 55					50,15	44,15	46,15	50,50		< 45
	Pt [Pa]				41,85					30,35	26,50	28,15	32,50		20,95
2500	X [m]				19,65					16,75					14,35
	La [dB]				< 55					< 50					45,15
	Pt [Pa]				57,95					42,05					29,05

X (m) — air flow range

P<sub>t</sub>(Pa) — pressure drop

L<sub>A</sub>(dB(A)) — sound pressure level