

## Description

The SHR intake-outtake grill is designed for mounting on walls of rectangular ducts. The grill is fastened to the duct by means of delivered special clips. The grill is made of galvanized steel with no welds. It means that it may be used without anticorrosive protections. Inclination angle of the lamellas can be adjusted manually.

### Assembly

1 – with use of delivered clips

### Accessories

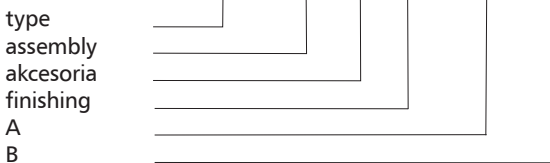
1 – double lamellas

### Type of finishing

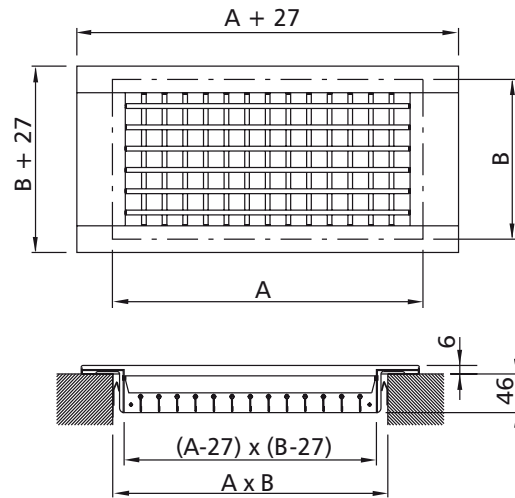
1 – galvanized steel sheet, powder painted according to RAL 9016

### Example identification

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



## Dimensions



type	dimension AxB [mm]	surface [m <sup>2</sup> ]
SHR-1-1-1-200-100	200x100	0,020
SHR-1-1-1-200-150	200x150	0,030
SHR-1-1-1-200-200	200x200	0,040
SHR-1-1-1-225-125	225x125	0,028
SHR-1-1-1-225-75	225x75	0,017
SHR-1-1-1-250-150	250x150	0,038
SHR-1-1-1-250-200	250x200	0,050
SHR-1-1-1-250-250	250x250	0,063
SHR-1-1-1-300-100	300x100	0,030
SHR-1-1-1-300-150	300x150	0,045
SHR-1-1-1-300-200	300x200	0,060
SHR-1-1-1-325-125	325x125	0,041
SHR-1-1-1-325-225	325x225	0,073
SHR-1-1-1-400-200	400x200	0,080
SHR-1-1-1-400-250	400x250	0,100
SHR-1-1-1-400-300	400x300	0,120
SHR-1-1-1-425-125	425x125	0,053
SHR-1-1-1-425-225	425x225	0,096
SHR-1-1-1-500-200	500x200	0,100
SHR-1-1-1-500-250	500x250	0,125
SHR-1-1-1-500-300	500x300	0,150
SHR-1-1-1-525-125	525x125	0,066
SHR-1-1-1-525-225	525x225	0,118
SHR-1-1-1-600-150	600x150	0,090
SHR-1-1-1-600-200	600x200	0,120
SHR-1-1-1-600-250	600x250	0,150
SHR-1-1-1-625-125	625x125	0,078
SHR-1-1-1-625-225	625x225	0,141

## Technical data

Table for selected dimensions:

Q [m³/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	< 18	< 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	5,70
	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) - range  
 P<sub>t</sub>(Pa) - pressure loss  
 L<sub>A</sub>(dB(A)) - sound pressure level

# Rectangular duct grills

# SHR

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## Technical data

Table for selected dimensions:

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) - range  
 P<sub>t</sub>(Pa) - pressure loss  
 L<sub>A</sub>(dB(A)) - sound pressure level