Round duct grills – SGR

SGR

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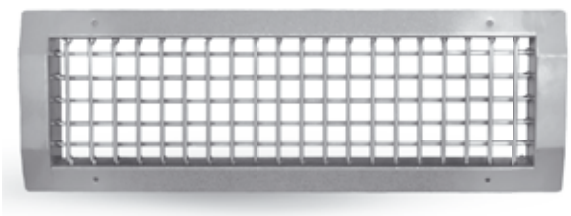


Description

The SGR intake-outtake grill is designed for mounting directly on a round duct by means of delivered screws. Construction of the grill enables its flanges to adhere tightly to a duct plane irrespective of its diameter. The grill is made of galvanized steel, with no welds. It means that it may be used without anticorrosive protections as it has the same surface finishing as ducts. The grill can be equipped with single or double lamellas mounted in vertical and horizontal position. Inclination angle of the lamellas can be adjusted manually. Additionally the grill can be equipped with the SGR-DA angular check damper.

Types of finishing of the grill: galvanized steel sheet
The grill can be powder painted according to RAL 9016

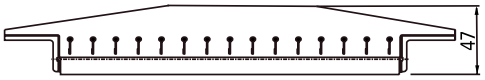
Example identification

Product code: **SGR** **a** **bbb** **ccc**

type
kind
A
B

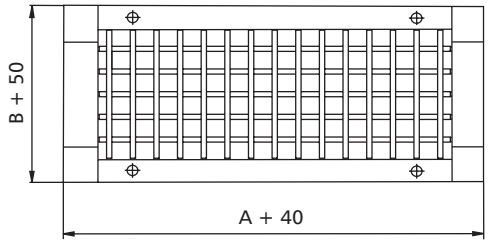
Kind

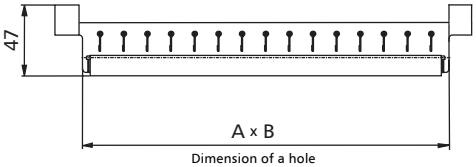
SGR-0 Single lamellas



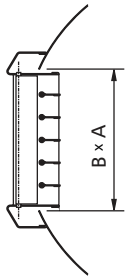
SGR-1 Double lamellas

Dimensions





Dimension of a hole



dimension A x B [mm]	min. duct dimension [mm]	max. duct dimension [mm]	surface [m²]	*weight SGR-0 [kg]*	*weight SGR-1 [kg]*
325x75	160	400	0,024	0,9	1,2
425x75	160	400	0,032	1,1	1,4
525x75	160	400	0,039	1,3	1,7
625x75	160	400	0,047	1,5	1,9
825x75	160	400	0,062	1,7	1,9
325x125	250	900	0,040	1,3	1,7
425x125	250	900	0,053	1,5	1,8
525x125	250	900	0,066	1,7	2,0
625x125	250	900	0,078	2,1	2,4
825x125	250	900	0,103	2,5	3,0
425x225	500	1400	0,096	2,7	3,0
525x225	500	1400	0,118	3,1	3,4
625x225	500	1400	0,141	3,4	3,7
825x225	500	1400	0,186	4,8	5,1

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Technical Data

Table

Przepływ	A x B	425 x 75	525 x 75	625 x 75	425 x 125	525 x 125	625 x 125	425 x 225	525 x 225	625 x 225	825 x 225
(m^3/h)	Pole (m^2)	0,0130	0,0160	0,0190	0,0250	0,0310	0,0370	0,0490	0,0610	0,0730	0,0970
200	X (m)	5,1	4,6								
	L_A(dB)	24	20								
	Pt (Pa)	12	8								
250	X (m)	6,4	5,7	5,3							
	L_A(dB)	29	25	22							
	Pt (Pa)	19	12	9							
300	X (m)	7,6	6,9	6,3	5,5						
	L_A(dB)	33	29	26	21						
	Pt (Pa)	27	18	13	7						
350	X (m)	8,9	8	7,4	6,4	5,8					
	L_A(dB)	37	33	30	24	20					
	Pt (Pa)	37	24	17	10	6					
400	X (m)	10,2	9,2	8,4	7,3	6,6	6				
	L_A(dB)	40	36	33	28	23	20				
	Pt (Pa)	48	32	23	13	8	6				
450	X (m)	11,5	10,3	9,5	8,3	7,4	6,8				
	L_A(dB)	43	39	36	31	26	23				
	Pt (Pa)	61	40	29	17	11	8				
500	X (m)		11,5	10,5	9,2	8,2	7,6	6,6			
	L_A(dB)		42	38	33	29	25	20			
	Pt (Pa)		50	35	20	13	9	5			
600	X (m)			12,6	11	9,9	9,1	7,9	7,1		
	L_A(dB)			43	38	33	30	24	20		
	Pt (Pa)			51	29	19	13	8	5		
700	X (m)				12,9	11,5	10,6	9,2	8,2	7,5	
	L_A(dB)				41	37	34	28	24	20	
	Pt (Pa)				40	26	18	10	7	5	
800	X (m)				14,7	13,2	12,1	10,5	9,4	8,6	
	L_A(dB)				45	40	37	31	27	24	
	Pt (Pa)				52	34	24	14	9	6	
900	X (m)					14,8	13,6	11,8	10,6	9,7	8,4
	L_A(dB)					43	40	34	30	26	21
	Pt (Pa)					43	30	17	11		
1 000	X (m)						15,1	13,1	11,8	10,8	9,3
	L_A(dB)						42	37	33	29	23
	Pt (Pa)						37	21	14	10	5
1 200	X (m)							15,7	14,1	12,9	11,2
	L_A(dB)							41	37	33	28
	Pt (Pa)							31	20	14	
1 400	X (m)							18,4	16,5	15,1	13,1
	L_A(dB)							45	41	37	32
	Pt (Pa)							42	27	19	11
1 600	X (m)								18,8	17,2	14,9
	L_A(dB)								44	40	35
	Pt (Pa)								35	24	14
1 800	X (m)									19,4	16,8
	L_A(dB)									43	38
	Pt (Pa)									31	18
2 000	X (m)										18,7
	L_A(dB)										40
	Pt (Pa)										22

P_t(Pa) - pressure loss
L_A(dB(A)) - Acoustic pressure level