

CAIROX



SAR-GB

C.06

Circular Galvanized steel with baffle



Circular sound attenuators with baffle type SAR-GB

Circular sound attenuator with baffle, duct in galvanized steel with insulation thickness of 100 mm sheathed in a dust cover for air speeds up to 20 m/s Attenuation values according to DIN EN ISO 7235 (63, 125, 250, 500, 1k, 2k, 4k, 8k [Hz])

Application

- For noise reduction in round air ducts
- Reducing noise produced by fans
- Reducing flow noises from flow regulators or other channel components
- Can be used as a damper to prevent sound transfer trough the ducting between rooms

Advantage

The silencer with baffle type SAR-GB has a higher attenuation than the classic round silencer.

Composition

- Circular silencers are designed with an external galvanised duct system
 Insulation with thickness 100 mm (SAR-GB100)
 Inner casing is made of perforated sheet steel
 The void between the two is filled with sound-absorbing non-combustible mineral wool according to DIN4102 A2, specific mass> 20 kg / m³, building material class A2
- Mineral wool certified according to RAL GZ 388
- Connection to circular air ducts according to DIN EN 1506 or DIN EN 13180
 Class D airtight connection with EPDM rubber according to DIN EN 12237
- Airtight connection class D with EPDM rubber according to DIN EN 12237

Mounting

■ The attenuators should be mounted using duct suspension clamps, type **OBMC**, around the duct connection DN



Sound attenuators

Order example

SAR-GB100 315 L=600mm

Explanation:

SAR-GB = Type of sound attenuator with internal baffle

100 = Thickness of insulation in mm

315 = Constitution as

600 = Length in mm

Sound attenuation values												
I = 100 mm												
SAR-GB 10	0		[dB]									
DN	D [mm]	L [mm]	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	[kg]	
315	500	600	3	6	13	20	25	22	17	15	16	
315	500	900	5	9	17	26	42	37	25	20	23	
315	500	1200	5	10	22	34	52	51	32	24	30	
355	560	600	3	5	10	16	27	24	16	12	17	
355	560	900	5	8	16	25	41	36	24	19	26	
355	560	1200	5	9	21	33	51	50	31	23	34	
400	600	600	3	4	9	16	20	14	10	10	20	
400	600	900	5	6	14	24	31	22	15	15	31	
400	600	1200	5	8	16	30	42	32	21	18	42	
450	630	900	4	5	13	23	30	21	14	14	35	
450	630	1200	4	7	15	29	41	31	20	17	47	
500	710	900	4	5	12	20	23	15	11	12	40	
500	710	1200	4	6	14	27	34	21	14	15	53	
560	800	1200	3	5	13	26	33	20	13	14	59	
630	800	1200	3	4	11	23	24	14	11	12	63	
710	900	1200	2	4	11	21	17	11	10	10	71	
800	1000	1200	2	3	10	20	16	10	9	9	82	

- I = Insulation jacket thickness in mm
 DN = Nominal connection diameter of silencer in mm
 D = Outside diameter in mm
- L = Length in mm

Pressure loss														
ΔPt (Pa/m)														
	Q (m³/h)													
DN	1000	2000	3000	4000	5000	6000	7000	8000	9000	10000	11000	12000	13000	14000
315	13	50	100											
355	8	23	48	70	101									
400	3	9	22	48	58	80	100							
450		6	12	20	30	43	58	72	87	101				
500		3	7	11	18	25	33	43	52	65	78	95		
560	[4	7	11	15	21	26	33	40	49	60	66	77
630				6	8	11	14	18	22	27	32	37	41	50
710						4	6	8	10	12	14	17	20	24
800									5	6	7	8	9	12

- ΔPt = Total pressure loss in Pa / m
- DN = Nominal connection diameter of the silencer in mm
 Q = Air flow in m³ / h

