Difair

Serie SAR



RECTANGULAR ACOUSTIC MUFFLER

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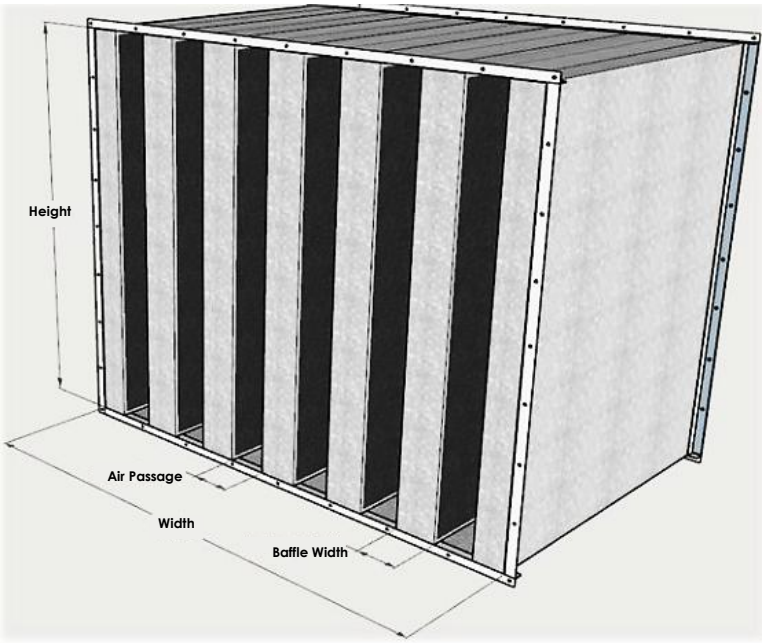


DESCRIPTION

Custom-manufactured acoustic silencers consisting of a 1.2 mm-thick metal casing and interior cells filled with inorganic, rot-resistant sound-absorbing material of varying densities, protected by a black fiberglass mesh against erosion and weathering.

Different types of connection systems depending on the muffler's final location (Metu-30, necks, 30 x 30 x 3 mm angle iron, 50 x 50 x 5 mm angle iron, etc.).

Standard material: Z200 galvanized steel in various thicknesses. Various materials depending on the type of construction and application (carbon steel, AISI 316 stainless steel, AISI 304 stainless steel, aluminum).



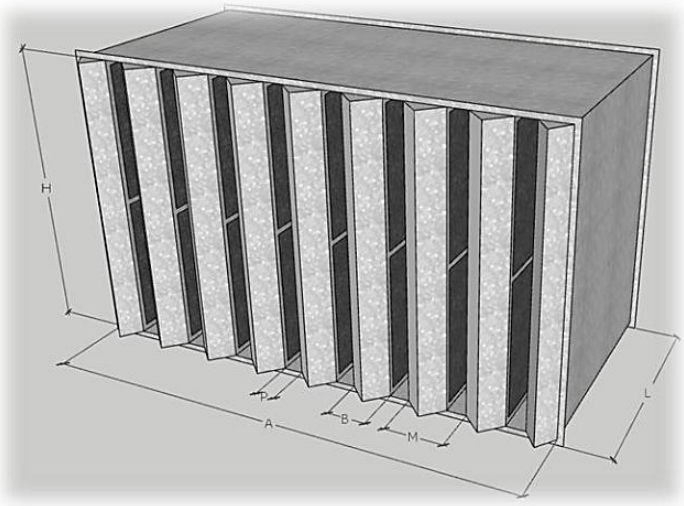
TYPES OF CONSTRUCTION

- Special aerodynamic design (model SAR/A) with low pressure drop and minimal noise regeneration.
- Acoustic analysis to achieve the necessary attenuation based on the wide range of baffle thicknesses and air passages.
- Standard construction for medium- and low-pressure installations.
- Aerodynamic baffles with low noise levels and medium pressure.
- Robust construction with bolted or welded joints.
- Special construction for specific industrial applications.
- Baffles with perforated sheet metal protection for high airflow rates.

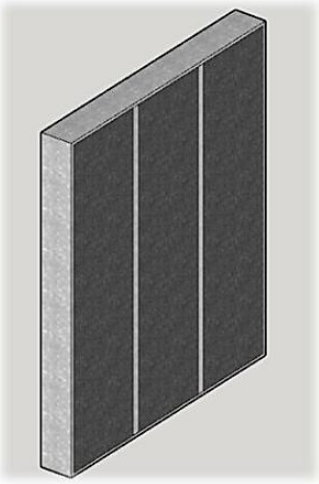
SELECTION

The sound attenuation of the muffler is determined based on its length, depending on the model of muffler selected.

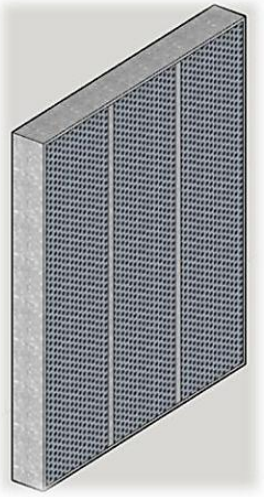
The width and height of the muffler are selected based on the airflow rate and the available pressure from the fan or the system.



SAR/A



WITH VEIL



WITH PERFORATED SHEET METAL

SELECTION TABLE

SAR 50/200

A x H	Air Flow "Q" (m³/h)				
750 x 600	1.620	2.430	3.240	4.050	4.860
1000 x 600	2.160	3.240	4.320	5.400	6.480
1250 x 600	2.700	4.050	5.400	6.750	8.100
1500 x 600	3.240	4.860	6.480	8.100	9.720
750 x 900	2.430	3.645	4.860	6.075	7.290
1000 x 900	3.240	4.860	6.480	8.100	9.720
1250 x 900	4.050	6.075	8.100	10.125	12.150
1500 x 900	4.860	7.290	9.720	12.150	14.580
1750 x 900	5.670	8.505	11.340	14.175	17.010
1000 x 1200	4320	6.480	8.640	10.800	12.960
1250 x 1200	5.400	8.100	10.800	13.500	16.200
1500 x 1200	6.480	9.720	12.960	16.200	19.440
1750 x 1200	7.560	11.340	15.120	18.900	22.680
2000 x 1200	8.640	12.960	17.280	21.600	25.920
1500 x 1500	8.100	12.150	16.200	20.250	24.300
1750 x 1500	9.450	14.175	18.900	23.625	28.350
2000 x 1500	10.800	16.200	21.600	27.000	32.400
2500 x 1500	13.500	20.250	27.000	33.750	40.500
3000 x 1500	16.200	24.300	32.400	40.500	48.600
1750 x 1800	11.340	17.010	22.680	28.350	34.020
2000 x 1800	12.960	19.440	25.920	32.400	38.880
2500 x 1800	16.200	24.300	32.400	40.500	48.600
3000 x 1800	19.440	29.160	38.880	48.300	58.320
3500 x 1800	22.680	34.020	45.360	56.700	68.040
Δp (mm.ca)	2	4	7	10	16
V (m/s)	5	7.5	10	12.5	15

Attenuation table: (Ref. 10^{-12} Watt)								
L	63	125	250	500	1K	2K	4K	8K
600	8	15	24	30	36	35	28	23
900	10	19	33	41	50	50	46	37
1200	11	24	44	49	50	50	46	50
1500	14	28	52	50	50	50	50	50
1800	16	31	52	50	50	50	50	50
2100	19	36	52	50	50	50	50	50

SELECTION TABLE

SAR 75/200

A x H	Air Flow "Q" (m³/h)				
825 x 600	2.430	3.645	4.860	6.075	7.290
1100 x 600	3.240	4.860	6.480	8.100	9.720
1375 x 600	4.050	6.075	8.100	10.125	12.150
1650 x 600	4.860	7.290	9.720	12.150	14.580
825 x 900	3.645	5.467	7.290	9.112	10.935
1100 x 900	4.860	7.290	9.720	12.150	14.580
1375 x 900	6.075	9.112	12.150	15.187	18.225
1650 x 900	7.290	10.935	14.580	1.825	21.870
1925 x 900	8.505	12.757	17.010	21.262	25.515
1100 x 1200	6.480	9.720	12.960	16.200	19.440
1375 x 1200	8.100	12.150	16.200	20.250	24.300
1650 x 1200	9.720	14.580	19.440	24.300	29.160
1925 x 1200	11.340	17.010	22.680	28.350	34.020
2200 x 1200	12.960	19.440	25.920	32.400	38.880
1375 x 1500	10.125	15.187	20.250	25.312	30.375
1650 x 1500	12.150	18.225	24.300	30.375	36.450
1925 x 1500	14.175	21.262	28.350	35.437	42.525
2200 x 1500	16.200	24.300	32.400	40.500	48.600
2475 x 1500	18.225	27.337	36.450	45.562	54.675
2200 x 1800	19.440	29.160	38.880	48.600	58.320
2750 x 1800	24.300	36.450	48.600	60.750	72.900
3300 x 1800	29.160	43.740	58.320	72.900	87.480
4125 x 1800	36.450	54.675	72.900	91.125	109.350
Δp (mm.ca)	1	3	6	8	12
V (m/s)	5	7.5	10	12.5	15

Attenuation table: (Ref. 10^{-12} Watt)								
L	63	125	250	500	1K	2K	4K	8K
600	7	13	19	24	29	29	22	18
900	9	16	27	34	43	42	37	30
1200	11	20	35	47	50	50	50	42
1500	12	23	44	50	50	50	50	50
1800	14	26	52	50	50	50	50	50
2100	16	30	52	50	50	50	50	50

SELECTION TABLE

SAR 100/200

A x H	Air Flow "Q" (m³/h)				
900 x 600	3.240	4.860	6.480	8.100	9.720
1200 x 600	4.320	6.480	8.640	10.800	12.960
1500 x 600	5.400	8.100	10.800	13.500	16.200
1800 x 600	6.480	9.720	12.960	16.200	19.440
900 x 900	4.860	7.290	9.720	12.150	14.580
1200 x 900	6.480	9.720	12.960	16.200	19.440
1500 x 900	8.100	12.150	16.200	20.250	24.300
1800 x 900	9.720	14.580	19.440	24.300	29.160
2100 x 900	11.340	17.010	22.680	28.350	34.020
1200 x 1200	8.640	12.960	17.280	21.600	25.920
1500 x 1200	10.800	16.200	21.600	27.000	32.400
1800 x 1200	12.960	19.110	25.920	32.400	38.880
2100 x 1200	15.120	22.680	30.240	37.800	45.360
2400 x 1200	17.280	25.920	34.560	43.200	54.810
1500 x 1500	13.500	20.250	27.000	33.750	40.500
1800 x 1500	16.200	24.300	32.400	40.500	48.600
2100 x 1500	18.900	28.350	37.800	47.250	56.700
2400 x 1500	21.600	32.400	43.200	54.000	64.800
2700 x 1500	24.300	36.450	48.600	60.750	72.900
1800 x 1800	19.440	29.160	38.880	48.600	58.320
2100 x 1800	22.680	34.020	45.360	56.700	68.040
2400 x 1800	25.920	38.880	51.840	64.800	77.760
2700 x 1800	29.160	43.740	58.320	72.900	87.480
3000 x 1800	32.400	48.600	64.800	81.000	97.200
Δp (mm.ca)	1	3	6	8	11
V (m/s)	5	7.5	10	12.5	15

Attenuation table: (Ref. 10^{-12} Watt)								
L	63	125	250	500	1K	2K	4K	8K
600	6	11	16	18	23	23	16	13
900	7	13	21	27	35	33	26	21
1200	8	15	27	38	47	45	35	28
1500	9	18	34	47	50	50	45	36
1800	11	21	40	50	50	50	50	43
2100	12	23	47	50	50	50	50	50

SELECTION TABLE

SAR 125/200

A x H	Air Flow "Q" (m³/h)				
650 x 600	2.700	4.050	5.400	6.750	9.720
975 x 600	4.050	6.075	8.100	10.125	12.960
1300 x 600	5.400	8.100	10.800	13.500	16.200
1625 x 600	6.750	10.125	13.500	16.875	20.250
975 x 900	6.075	9.112	12.150	15.187	18.225
1300 x 900	8.100	12.150	16.200	20.250	24.300
1625 x 900	10.125	15.187	20.250	25.312	30.375
1950 x 900	12.150	18.225	24.300	30.375	36.450
2275 x 900	14.175	21.262	28.350	35.437	42.525
975 x 1200	8.100	12.150	16.200	20.250	24.300
1300 x 1200	10.800	16.200	211.600	27.000	32.400
1625 x 1200	13.500	20.250	27.000	33.750	40.500
1950 x 1200	16.200	24.300	32.400	40.500	48.600
2275 x 1200	18.900	28.350	37.800	47.250	56.700
1300 x 1500	13.500	20.250	27.000	33.750	40.500
1625 x 1500	16.875	25.312	33.750	42.187	50.625
1950 x 1500	20.250	30.375	40.500	50.625	60.750
2275 x 1500	23.625	35.437	47.250	59.062	70.875
2600 x 1500	27.000	40.500	54.000	67.500	81.000
1950 x 1800	24.300	36.450	48.600	60.750	72.900
2275 x 1800	28.350	42.525	56.700	70.875	85.050
2600 x 1800	32.400	48.600	64.800	81.000	97.200
2925 x 1800	26.450	54.675	72.900	91.125	109.350
3250 x 1800	40.500	60.750	81.000	101.250	121.500
Δp (mm.ca)	1	2	4	7	10
V (m/s)	5	7.5	10	12.5	15

Attenuation table: (Ref. 10^{-12} Watt)								
L	63	125	250	500	1K	2K	4K	8K
600	6	10	12	16	23	18	13	10
900	7	12	18	24	32	28	20	16
1200	8	14	24	32	43	37	26	21
1500	9	16	30	41	50	47	33	36
1800	10	18	34	49	50	50	40	32
2100	11	21	40	50	50	50	46	37

SELECTION TABLE

SAR 150/200

A x H	Air Flow "Q" (m³/h)				
700 x 600	3.240	4.860	6.480	8.100	9.720
1050 x 600	4.860	7.290	9.720	12.150	14.580
1400 x 600	6.480	9.720	12.960	16.200	19.440
1750 x 600	8.100	12.150	16.200	20.250	24.300
700 x 900	4.860	7.290	9.720	12.150	14.580
1050 x 900	7.290	10.935	14.580	18.225	21.870
1400 x 900	9.720	14.580	19.440	24.300	29.160
1750 x 900	12.150	18.225	24.300	30.375	36.450
2100 x 900	14.580	21.870	29.160	36.450	43.740
1050 x 1200	9.720	14.580	19.440	24.300	29.160
1400 x 1200	12.960	19.440	25.920	32.400	38.880
1750 x 1200	16.200	24.300	32.400	40.500	48.600
2100 x 1200	19.440	29.160	38.880	48.600	58.320
2450 x 1200	22.680	34.020	45.360	56.700	68.040
1400 x 1500	16.200	24.300	32.400	40.500	48.600
1750 x 1500	20.250	303.375	40.500	50.625	60.750
2100 x 1500	24.300	36.450	48.600	60.750	72.900
2450 x 1500	28.350	42.525	56.700	70.875	85.050
2800 x 1500	32.400	48.600	64.800	81.000	97.200
1750 x 1800	24.300	36.450	48.600	60.750	72.900
2100 x 1800	29.160	43.740	58.320	72.900	87.480
2450 x 1800	34.020	51.030	68.040	85.050	102.060
2800 x 1800	38.880	58.320	77.760	97.200	116.640
3150 x 1800	43.740	65.610	87.840	109.350	131.220
Δp (mm.ca)	1	2	4	6	9
V (m/s)	5	7.5	10	12.5	15

Attenuation table: (Ref. 10^{-12} Watt)								
L	63	125	250	500	1K	2K	4K	8K
600	5	9	11	15	20	17	9	7
900	6	10	16	23	30	25	15	12
1200	7	12	20	33	39	32	21	17
1500	7	13	25	40	49	41	26	22
1800	8	15	29	48	50	48	31	26
2100	9	17	33	50	50	50	36	30

SELECTION TABLE

SAR 175/200

A x H	Air Flow "Q" (m³/h)				
750 x 600	3.780	5.670	7.560	9.450	11.340
1125 x 600	5.670	8.505	11.340	14.175	17.010
1500 x 600	7.560	11.340	15.120	18.900	22.680
1825 x 600	9.450	14.175	18.900	23.625	28.350
750 x 900	5.670	8.505	11.340	14.175	17.010
1125 x 900	8.505	12.757	17.010	21.262	25.515
1500 x 900	11.340	17.010	22.680	28.350	34.020
1825 x 900	14.175	21.262	28.350	35.437	42.525
2250 x 900	17.010	25.515	34.020	42.525	51.030
1125 x 1200	11.340	17.010	22.680	28.350	34.020
1500 x 1200	15.120	22.680	30.240	37.800	45.360
1825 x 1200	18.900	28.350	37.800	47.250	56.700
2250 x 1200	22.680	34.020	45.360	56.700	68.040
2625 x 1200	26.460	39.690	52.920	66.150	79.380
1500 x 1500	18.900	28.350	37.800	47.250	56.700
1825 x 1500	23.625	35.437	47.250	59.062	70.875
2250 x 1500	28.350	42.525	56.700	70.875	85.050
2625 x 1500	33.075	49.612	66.150	82.687	99.225
3000 x 1500	37.800	56.700	75.600	94.500	113.400
1825 x 1800	28.350	42.525	56.700	70.875	85.050
2250 x 1800	34.020	51.030	68.040	85.050	102.060
2625 x 1800	39.690	59.535	79.380	99.225	119.070
3000 x 1800	45.360	68.040	90.720	113.400	136.080
3375 x 1800	51.030	76.545	102.060	127.575	153.090
Δp (mm.ca)	1	2	4	6	8
V (m/s)	5	7.5	10	12.5	15

Attenuation table: (Ref. 10^{-12} Watt)								
L	63	125	250	500	1K	2K	4K	8K
600	5	8	10	16	17	15	8	7
900	6	9	15	22	26	21	12	10
1200	6	11	18	29	36	29	17	14
1500	7	13	23	37	44	35	21	17
1800	8	14	26	43	50	43	25	20
2100	9	16	31	50	50	50	29	23

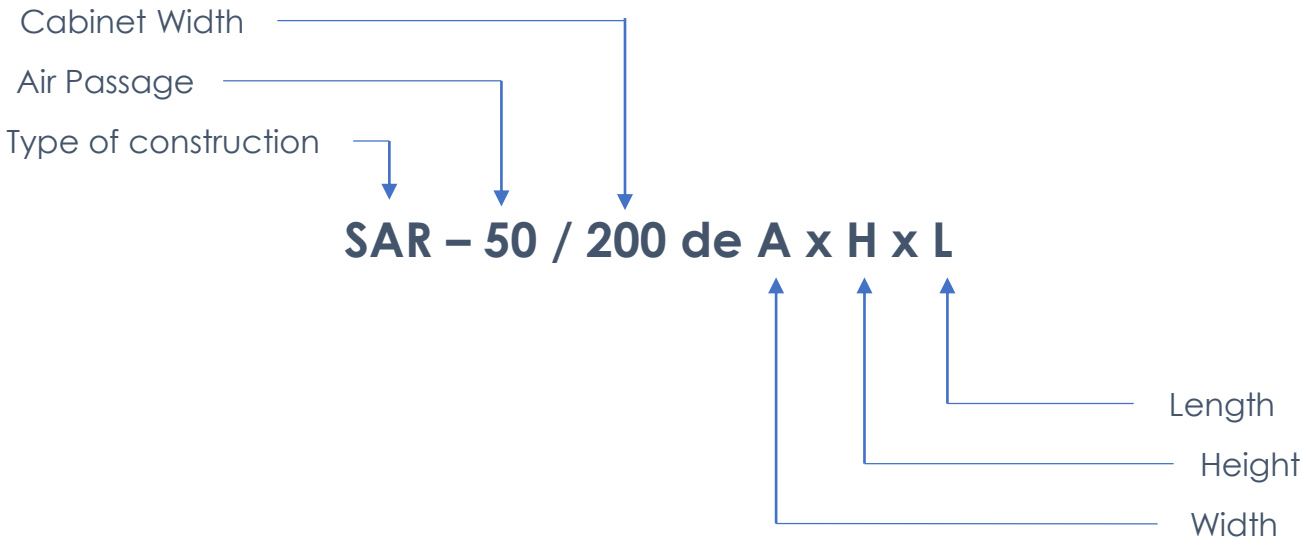
SELECTION TABLE

SAR 200/200

A x H	Air Flow "Q" (m³/h)				
750 x 600	3.780	5.670	7.560	9.450	11.340
1125 x 600	5.670	8.505	11.340	14.175	17.010
1500 x 600	7.560	11.340	15.120	18.900	22.680
1825 x 600	9.450	14.175	18.900	23.625	28.350
750 x 900	5.670	8.505	11.340	14.175	17.010
1125 x 900	8.505	12.757	17.010	21.262	25.515
1500 x 900	11.340	17.010	22.680	28.350	34.020
1825 x 900	14.175	21.262	28.350	35.437	42.525
2250 x 900	17.010	25.515	34.020	42.525	51.030
1125 x 1200	11.340	17.010	22.680	28.350	34.020
1500 x 1200	15.120	22.680	30.240	37.800	45.360
1825 x 1200	18.900	28.350	37.800	47.250	56.700
2250 x 1200	22.680	34.020	45.360	56.700	68.040
2625 x 1200	26.460	39.690	52.920	66.150	79.380
1500 x 1500	18.900	28.350	37.800	47.250	56.700
1825 x 1500	23.625	35.437	47.250	59.062	70.875
2250 x 1500	28.350	42.525	56.700	70.875	85.050
2625 x 1500	33.075	49.612	66.150	82.687	99.225
3000 x 1500	37.800	56.700	75.600	94.500	113.400
1825 x 1800	28.350	42.525	56.700	70.875	85.050
2250 x 1800	34.020	51.030	68.040	85.050	102.060
2625 x 1800	39.690	59.535	79.380	99.225	119.070
3000 x 1800	45.360	68.040	90.720	113.400	136.080
3375 x 1800	51.030	76.545	102.060	127.575	153.090
Δp (mm.ca)	1	2	3	5	7
V (m/s)	5	7.5	10	12.5	15

Attenuation table: (Ref. 10^{-12} Watt)								
L	63	125	250	500	1K	2K	4K	8K
600	4	6	10	13	16	13	7	6
900	5	8	12	20	24	19	10	8
1200	5	9	16	26	32	26	14	11
1500	6	11	18	33	40	32	17	14
1800	7	12	21	40	18	38	21	17
2100	8	14	25	47	50	45	24	19

SELECTION REFERENCES





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