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Air-Conditioning & Ventilation Components & Systems

# CIRCULAR SOUND ATTENUATORS KH & KHX



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# Circular Sound Attenuators **KH & KHX**

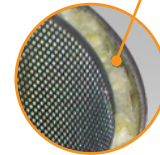
AIRTECHNIC circular sound attenuators **KH** and **KHX** are designed for installation in HVAC systems with circular fans and ducts, in order to reduce the fan noise. Optional connection flanges might be required in order to connect the attenuator directly to the fans (for more information please contact our technical department).



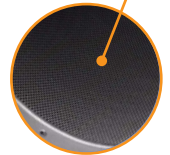
## TECHNICAL SPECIFICATIONS **KH / KHX**

- 2 models: **KHX** with inner core and **KH** without inner core.
- Casing in galvanised steel with nominal thickness 0,8 mm for diameters up to Ø1.250 mm and 1,0 mm for larger diameters. Possible to produce casing with any thickness, in stainless steel or copper, under request.
- 2 connection options: **Type A** with mounting flange with threaded insert and **Type B** with connecting neck.
- Sound absorbent material: Mineral wool, 70 Kg/m<sup>3</sup> density, fire resistance M0, protected against fabric erosion.
- Inner casing from **perforated** metal sheet.
- Acoustic data tested in accordance to EN ISO 7235.
- Holes and connecting neck are manufactured according to Eurovent Standards.
- **KHX** models are manufactured with an inner core for increased attenuation requirements.
- Standard lengths: [1 x D], [1,5 x D] and [2 x D]. Possible to produce at any length, under request.

Mineral wool with protection against erosion

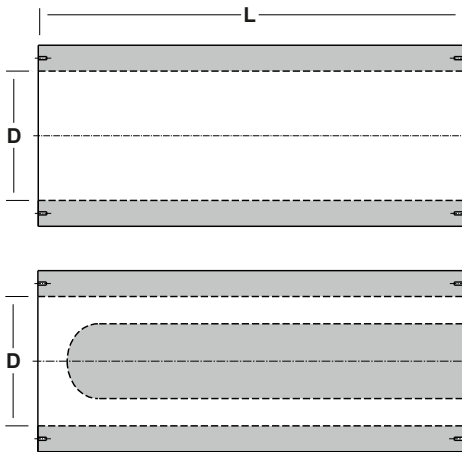


Perforated inner casing



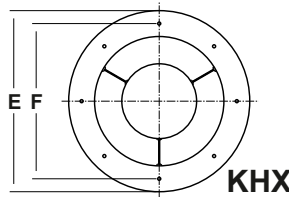
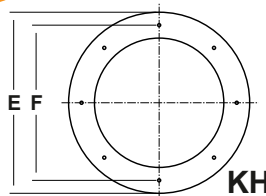
Mounting flange with threaded insert

Connection **TYPE A**



Connecting neck

Connection **TYPE B**



### DIMENSIONS

NOMINAL SIZE	Ø D (mm)	Ø E (mm)	Ø F (mm)	N° holes	Ø holes	Ø insert	Ø Y (mm)	LENGTH L (mm)		
								1 x D	1,5 x D	2 x D
250	250	390	280	4	11	M8	120	250	375	500
300	300	440	340	8	11	M8	140	300	450	600
315	315	455	355	8	11	M8	140	315	472,5	630
350	350	490	390	8	11	M8	200	350	525	700
355	355	495	395	8	11	M8	200	355	532,5	710
400	400	540	450	8	12	M10	200	400	600	800
450	450	610	500	8	12	M10	245	450	675	900
500	500	660	560	12	12	M10	245	500	750	1.000
560	560	720	620	12	12	M10	295	560	840	1.120
600	600	760	660	12	12	M10	295	600	900	1.200
630	630	790	690	12	12	M10	295	630	945	1.260
650	650	810	710	12	12	M10	295	650	975	1.300
700	700	860	760	16	12	M10	380	700	1.050	1.400
710	710	870	770	16	12	M10	380	710	1.065	1.420
750	750	950	810	16	12	M10	380	750	1.125	1.500
800	800	1.000	860	16	12	M10	380	800	1.200	1.600
850	850	1.050	920	16	15	M12	380	850	1.275	1.700
900	900	1.100	970	16	15	M12	380	900	1.350	1.800
1.000	1.000	1.200	1.070	16	15	M12	650	1.000	1.500	2.000
1.120	1.120	1.320	1.190	20	15	M12	650	1.120	1.680	2.240
1.200	1.200	1.400	1.270	20	15	M12	650	1.200	1.800	2.400
1.250	1.250	1.450	1.320	20	15	M12	650	1.250	1.875	2.500
1.300	1.300	1.500	1.370	20	15	M12	650	1.300	1.950	2.600
1.400	1.400	1.600	1.470	20	15	M12	650	1.400	2.100	2.800
1.500	1.500	1.700	1.580	24	15	M12	650	1.500	2.250	3.000
1.600	1.600	1.800	1.680	24	15	M12	650	1.600	2.400	3.200
1.700	1.700	1.900	1.780	24	15	M12	650	1.700	2.550	3.400
1.800	1.800	2.000	1.880	24	15	M12	650	1.800	2.700	3.600
1.900	1.900	2.100	1.980	24	15	M12	650	1.900	2.850	3.800
2.000	2.000	2.200	2.080	24	15	M12	650	2.000	3.000	4.000

Length	Weight (Kg)			Weight (Kg)		
	1 x D	1,5 x D	2 x D	1 x D	1,5 x D	2 x D
<b>SIZE</b>	<b>TYPE KH</b>			<b>TYPE KHX</b>		
<b>400</b>	14	19	23	19	24	29
<b>450</b>	20	28	35	25	33	41
<b>500</b>	22	29	37	26	34	42
<b>560</b>	30	39	48	38	50	62
<b>630</b>	31	40	52	40	52	66
<b>710</b>	36	50	65	45	63	80
<b>800</b>	43	61	79	56	79	101
<b>900</b>	70	95	120	85	117	148
<b>1.000</b>	113	137	161	143	180	216
<b>1.250</b>	152	185	213	193	240	282

<b>400</b>
<b>450</b>
<b>500</b>
<b>560</b>
<b>630</b>
<b>710</b>
<b>800</b>
<b>900</b>
<b>1.000</b>
<b>1.250</b>



Air speed 5 m/s		Air speed 8 m/s		Air speed 10 m/s		Air speed 15 m/s	
Airflow (m³/h)	Pressure Drop (Pa)	Airflow (m³/h)	Pressure Drop (Pa)	Airflow (m³/h)	Pressure Drop (Pa)	Airflow (m³/h)	Pressure Drop (Pa)
<b>TYPE KHX for length 1 x D</b>							
1.600	5	2.100	16	3.500	26	5.000	61
1.800	5	2.500	16	4.100	27	6.000	66
2.300	5	3.100	16	5.100	27	7.400	55
3.200	4	4.300	13	7.200	21	9.200	38
3.900	4	5.100	10	8.500	17	11.000	28
5.200	3	6.600	7	11.000	12	15.000	22
6.000	3	7.500	7	12.500	11	17.000	22
8.000	3	9.600	7	16.000	11	22.000	28
9.800	4	10.800	8	18.000	13	26.000	31
15.000	4	16.500	10	27.500	16	41.000	39

<b>TYPE KHX for length 2 x D</b>							
1.600	9	2.100	25	3.500	41	5.000	88
1.800	9	2.500	25	4.100	42	6.000	94
2.300	8	3.100	25	5.100	42	7.400	83
3.200	6	4.300	20	7.200	33	9.200	55
3.900	5	5.100	16	8.500	27	11.000	44
5.200	5	6.600	12	11.000	19	15.000	37
6.000	5	7.500	11	12.500	18	17.000	37
8.000	5	9.600	11	16.000	18	22.000	44
9.800	5	10.800	12	18.000	19	26.000	47
15.000	6	16.500	15	27.500	24	41.000	61



<b>SOUND ATTENUATION (dB)</b>																		
SIZE	Length	FREQUENCY Hz - TYPE KH								FREQUENCY Hz - TYPE KHX								
		125	250	500	1k	2k	4k	8k	dB(A)	125	250	500	1k	2k	4k	8k	dB(A)	
250	1 x D	1	4	6	11	13	9	6	17,2									
	1,5 x D	1	6	9	23	16	11	10	24,4									
	2 x D	1	8	14	24	21	13	12	26,5									
315	1 x D	1	3	8	14	9	8	7	17,3	1	4	9	16	17	13	10	21,2	
	1,5 x D	2	5	12	19	13	11	8	21,4	4	5	13	23	26	18	12	28,5	
	2 x D	6	6	16	26	17	13	9	27,2	6	7	17	32	33	22	17	35,9	
355	1 x D	1	3	9	14	10	8	6	17,5	1	4	11	22	21	15	12	25,4	
	1,5 x D	1	5	12	21	13	11	9	22,7	1	7	15	33	32	22	17	35,8	
	2 x D	2	6	15	25	16	12	10	26,2	2	8	19	40	39	27	20	42,7	
400	1 x D	1	4	10	13	8	8	5	16,9	1	4	11	20	18	14	11	23,4	
	1,5 x D	1	5	14	19	12	10	8	21,5	2	6	15	31	27	19	14	32,8	
	2 x D	2	7	18	24	15	12	9	25,8	2	9	20	37	35	23	16	39,3	
450	1 x D	1	4	12	12	9	6	6	17,1	1	6	14	21	19	13	9	24,2	
	1,5 x D	1	6	17	17	13	9	8	21,5	2	7	19	31	28	18	12	33,1	
	2 x D	1	7	21	21	15	10	8	24,9	3	10	23	39	36	21	15	40,9	
500	1 x D	1	4	13	11	9	6	5	17,1	2	5	13	20	16	11	8	22,6	
	1,5 x D	1	6	18	17	12	9	7	21,7	3	7	19	29	24	14	10	30,7	
	2 x D	2	8	23	21	14	11	8	25,8	3	10	24	38	32	18	12	39,2	
560	1 x D	1	4	14	11	8	5	4	17,3	1	6	15	21	17	11	8	23,7	
	1,5 x D	2	7	20	15	11	8	5	22,0	3	9	22	32	27	15	11	33,6	
	2 x D	1	9	24	19	14	10	7	25,8	2	12	27	41	35	18	12	42,1	
630	1 x D	1	5	14	10	9	5	5	17,3	1	6	15	19	16	10	8	22,4	
	1,5 x D	2	7	20	14	12	8	6	22,0	2	9	22	29	23	14	10	30,8	
	2 x D	2	9	25	17	14	10	7	26,2	3	11	27	37	29	15	12	38,0	
710	1 x D	1	5	12	9	7	5	5	16,0	2	7	15	20	18	12	10	23,6	
	1,5 x D	2	7	18	11	9	6	7	20,0	3	11	22	31	25	13	11	32,5	
	2 x D	4	9	24	14	11	8	8	24,9	5	14	29	41	32	18	15	41,8	
800	1 x D	3	7	9	8	6	5	4	14,9	3	9	12	17	15	9	8	20,9	
	1,5 x D	5	10	13	12	9	7	7	18,3	6	13	18	26	22	12	11	28,3	
	2 x D	6	13	22	14	10	9	7	23,6	6	16	29	35	26	15	12	36,5	
900	1 x D	3	7	13	8	6	5	4	16,3	4	8	15	16	11	8	7	20,2	
	1,5 x D	5	11	16	11	7	7	5	19,1	5	12	20	24	16	10	9	26,3	
	2 x D	6	14	23	13	9	7	6	24,2	7	17	30	34	20	12	11	35,7	
1.000	1 x D	3	8	12	8	4	4	4	15,8	8	14	20	24	21	14	10	27,4	
	1,5 x D	5	12	17	10	6	6	5	19,6	10	22	30	37	29	16	12	38,5	
	2 x D	6	16	23	12	7	7	6	24,4	13	28	39	47	38	19	13	48,1	
1.120	1 x D	3	8	13	7	5	4	3	16,1	6	13	20	21	14	8	7	24,6	
	1,5 x D	5	12	18	8	6	5	4	19,9	10	19	29	33	20	11	10	34,8	
	2 x D	6	15	23	10	7	6	6	24,1	14	26	36	42	24	13	11	43,1	
1.250	1 x D	3	9	13	7	4	4	3	16,2	7	12	18	19	10	6	6	22,6	
	1,5 x D	6	12	17	8	5	5	4	19,3	10	18	26	29	14	9	7	31,2	
	2 x D	8	17	22	10	6	6	5	23,7	13	25	35	37	17	11	9	39,3	



Management System  
ISO 14001:2015



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ISO 9001:2015

ISO 14001:2015

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