

SILENCERS WITH CIRCULAR CONNECTION

PREMIUM

ACOUSTIC

The PREMIUM range silencers with circular connection are designed to optimize acoustic attenuation in circular ductworks and minimize silencer size.

Intended for commercial building and residential applications, they enable to decrease ventilation systems noise pollution.

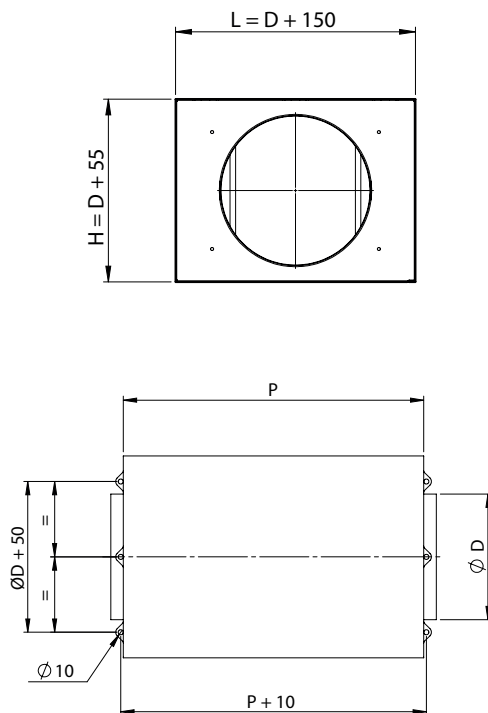
Their aeraulic and acoustic performances have been tested and approved by an independent laboratory (CTTM) according to the standards ISO 7235 : 2009.



CONSTRUCTION

		Characteristics
Casing	Material	Galvanized steel, sheet thickness 1.0 mm
	Connection	Male circular connection with EPDM gasket Minimum airtightness class C
Soundproofing	Material	Mineral wool with anti-erosion fiberglass layer on the surface

DIMENSIONS



ØD in mm	P in mm	H in mm	L in mm	Weight in Kg P= 600 mm	Weight in Kg P= 1000 mm
125	600 or 1000	180	275	6,5	10
160		215	310	7,5	11,5
200		255	350	8,5	13,5
250		305	400	10	16
315		370	465	12,5	19
355		410	505	13,5	21
400		455	550	15	23
450		505	600	16,5	25,5
500		555	650	18,5	28

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ACOUSTIC PERFORMANCES, ATTENUATIONS

LENGTH 600 mm		Static attenuations (dB)						
Diameter	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
Ø125	6	9	16	28	39	49	36	22
Ø160	6	8	15	25	36	42	30	19
Ø200	6	6	13	21	30	33	22	16
Ø250	6	4	9	15	22	18	10	10
Ø315	4	4	8	13	19	11	6	5
Ø355	4	3	7	13	18	10	5	5
Ø400	4	3	7	12	16	9	5	4
Ø450	3	3	6	11	13	8	5	4
Ø500	2	2	5	11	11	6	5	3

LENGTH 1000 mm		Static attenuations (dB)						
Diameter	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
Ø125	9	14	25	40	56	49	36	34
Ø160	9	11	22	35	50	42	30	24
Ø200	9	8	18	28	42	39	22	20
Ø250	9	6	17	27	38	30	15	16
Ø315	5	5	12	21	31	16	9	7
Ø355	4	4	12	20	29	15	8	7
Ø400	4	4	11	19	26	13	8	7
Ø450	3	3	10	18	22	11	7	6
Ø500	3	3	9	16	18	8	6	6

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SILENCERS WITH CIRCULAR CONNECTION

PREMIUM

1.5

ACOUSTIC PERFORMANCES, REGENERATIONS

ACOUSTIC

LENGTH 600 mm		Frequencies (Hz)								Tests carried out by an independent laboratory according to ISO 7235 : 2009.		
Diameter (mm)	Air velocity (m/s)	63	125	250	500	1000	2000	4000	8000	Gobal dB	Gobal dB (A)	Pressure losses (Pa)
125	3 m/s	37	30	20	11	10	14	14	14	38	22	5
	5 m/s	41	35	30	22	12	14	14	14	43	26	10
	7 m/s	46	41	40	32	22	16	16	16	48	35	20
	10 m/s	52	49	49	43	34	27	21	23	55	44	45
160	3 m/s	38	30	21	12	10	14	14	14	39	22	5
	5 m/s	42	36	31	24	15	15	15	15	44	27	10
	7 m/s	47	42	40	33	25	18	18	18	49	35	20
	10 m/s	53	49	49	43	36	29	24	25	56	44	35
200	3 m/s	39	31	22	14	11	14	14	14	40	23	5
	5 m/s	44	38	32	26	18	15	15	15	45	29	10
	7 m/s	48	44	41	34	30	20	20	20	50	37	15
	10 m/s	53	49	48	43	40	31	28	27	56	45	30
250	3 m/s	42	32	23	16	12	14	14	14	42	23	5
	5 m/s	46	41	34	29	24	16	16	16	47	32	5
	7 m/s	50	47	42	36	37	24	24	24	52	41	10
	10 m/s	55	50	47	43	45	35	34	30	57	48	15
315	3 m/s	39	29	21	15	11	14	14	14	40	22	5
	5 m/s	45	39	28	22	15	14	14	14	46	27	5
	7 m/s	53	46	36	30	24	17	17	17	54	35	5
	10 m/s	58	54	46	41	36	31	31	29	60	44	5
355	3 m/s	40	30	21	16	11	14	14	14	41	22	5
	5 m/s	46	38	28	22	15	14	14	14	46	27	5
	7 m/s	53	46	36	30	24	18	18	18	54	35	5
	10 m/s	58	54	46	41	37	31	31	30	60	45	5
400	3 m/s	41	30	21	16	12	14	14	14	42	23	5
	5 m/s	46	37	28	22	15	14	14	14	47	27	5
	7 m/s	52	45	36	30	24	18	18	18	53	35	5
	10 m/s	58	54	46	41	37	32	32	30	60	45	5
450	3 m/s	42	31	22	16	12	14	14	14	43	23	5
	5 m/s	46	36	28	22	14	14	14	14	47	27	5
	7 m/s	52	45	36	31	25	19	19	19	53	35	5
	10 m/s	59	54	46	42	38	32	32	30	60	45	5
500	3 m/s	44	32	22	17	12	14	14	14	44	24	5
	5 m/s	47	35	27	21	14	15	15	15	47	27	5
	7 m/s	51	44	36	32	26	19	19	19	52	35	5
	10 m/s	59	53	46	43	38	33	33	30	60	45	5

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ACOUSTIC ACOUSTIC PERFORMANCES, REGENERATIONS

LENGTH 1000 mm		Frequencies (Hz)								Tests carried out by an independent laboratory according to ISO 7235 : 2009		
Diameter (mm)	Air velocity (m/s)	63	125	250	500	1000	2000	4000	8000	Gobal dB	Gobal dB (A)	Pressure losses (Pa)
125	3 m/s	39	28	18	13	12	13	13	13	39	22	6
	5 m/s	40	34	28	23	24	23	23	23	41	30	13
	7 m/s	42	40	37	30	20	15	15	15	45	32	26
	10 m/s	48	47	46	40	30	25	20	23	52	41	55
160	3 m/s	39	29	20	14	12	14	14	14	40	22	5
	5 m/s	42	35	30	25	21	20	20	20	43	29	11
	7 m/s	45	42	38	33	24	18	18	18	48	34	22
	10 m/s	51	50	47	42	35	29	24	24	55	44	46
200	3 m/s	39	30	23	16	11	14	14	14	40	23	4
	5 m/s	45	38	33	29	18	15	15	15	46	30	9
	7 m/s	50	44	41	38	30	22	22	22	52	38	17
	10 m/s	55	53	49	46	42	36	30	26	58	48	33
250	3 m/s	43	33	23	16	11	14	14	14	44	24	2
	5 m/s	46	42	35	31	27	17	17	17	48	33	6
	7 m/s	50	46	43	37	39	25	25	25	53	42	12
	10 m/s	55	48	46	43	46	36	33	30	57	48	24
315	3 m/s	38	29	20	13	11	14	14	14	38	22	0
	5 m/s	42	33	24	18	12	14	14	14	43	24	1
	7 m/s	51	40	33	29	23	17	17	17	51	32	1
	10 m/s	55	47	41	37	33	27	27	27	56	40	4
355	3 m/s	39	29	20	14	11	14	14	14	39	22	0
	5 m/s	43	33	25	19	12	14	14	14	44	25	1
	7 m/s	51	41	34	29	23	18	18	18	52	32	1
	10 m/s	56	48	42	38	34	29	28	28	57	41	4
400	3 m/s	40	29	20	15	12	14	14	14	40	22	1
	5 m/s	44	34	26	20	13	14	14	14	45	25	1
	7 m/s	51	42	35	30	24	18	18	18	52	33	2
	10 m/s	57	50	44	40	36	30	30	28	58	43	5
450	3 m/s	42	30	21	16	12	14	14	14	42	23	1
	5 m/s	46	35	27	22	14	14	14	14	46	26	2
	7 m/s	51	43	36	31	25	19	19	19	52	34	2
	10 m/s	59	51	45	42	39	32	32	29	60	45	5
500	3 m/s	44	31	21	17	12	14	14	14	44	23	1
	5 m/s	47	36	29	23	15	15	15	15	48	27	2
	7 m/s	51	44	37	32	27	20	20	20	52	35	3
	10 m/s	60	53	47	45	42	35	34	30	61	47	6

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