

CIRCULAR SILENCER

CONFORT RANGE

The **CONFORT** range circular silencers are of direct type and enable to attenuate the noise of ventilation systems.

Depending on the required performances, two sizes of soundproofing casings are available: 50 mm and 100 mm. The acoustic and aerodynamic performances are the result of tests carried out and approved by an independent laboratory (CTTM) according to ISO 7235 standard.



CONFORT 50 Direct silencers with a 50 mm-thick soundproofing casing

CONFORT 100 Direct silencers with a 100 mm-thick soundproofing casing

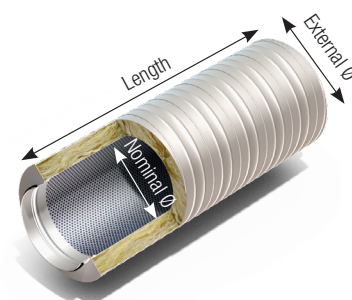
CONSTRUCTION

CONSTRUCTION		Characteristics	Options	
			CONFORT 50	CONFORT 100
Casing	Matierial	Rolled-stapled or spiral galvanized steel duct (depending on diameter)	Stainless steel 304L or 316L, painted steel (Standard RAL) or aluminium	Stainless steel 304L or 316L, painted steel (Standard RAL) or aluminium
	Connection	Male connection with EPDM seal Casing airtightness minimum class C*	-	Threaded flanges Rotating flanges
Soundproofing	Material	Mineral wool with anti-erosion fiberglass layer on the surface, A1 fire classification	Fiberglass fabric protection	Fire resistance 400°C/2h Fiberglass fabric protection
	Protection	Perforated steel or stretch metal (depending on diameter) galvanized steel in the air flow		
Accessories		Option : protective guards, support legs		

*In order to guarantee class C airtightness, the silencer are fitted directly in the air ductwork, without requiring screws.

DIMENSIONS

CONFORT 50				CONFORT 100			
Nominal Ø (mm)	External Ø (mm)	Length (mm)	Weight (kg)	Nominal Ø (mm)	External Ø (mm)	Length (mm)	Weight (kg)
80	180	600	3	250	450	1000	15
		900	4	315	500	1000	18
100	200	600	4	355	560	1000	21
		900	5	400	600	1000	23
125	225	600	5	450	630	1000	29
		900	7	500	710	1000	35
160	250	600	5	560	800	1000	41
		900	9	600	800	1000	42
200	315	600	6	630	800	1000	42
		900	8	710	900	1500	86
250	355	600	7	800	1000	1500	98
		900	10	900	1120	1500	109
315	400	600	10	1000	1250	2000	169
		900	13	1120	1400	2000	204
355	450	900	14	1250	1400	2000	214
		900	17				
400	500	900	19				
		900	21				
450	560	900	19				
		900	21				
500	630	900	21				
		900	21				



*Delivery time starts from your order receipt and depends on stock at that moment. Consult us for more information about delivery time before placing your order.

ACOUSTIC

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ACOUSTIC CHARACTERISTICS

CONFORT 50 Soundproofing casing thickness = 50 mm

LENGTH 600 mm	Static attenuation (dB)							
Nominal diameter (in mm)	63 Hz	125Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
80	4	9	13	26	30	32	25	24
100	4	9	11	19	33	45	40	19
125	3	5	11	22	37	41	26	15
160	2	4	8	16	30	32	15	9
200	2	3	7	17	28	20	9	7
250	2	3	6	14	23	16	7	7
315	1	2	3	11	19	10	5	8

LENGTH 900 mm	Static attenuation (dB)							
Nominal diameter (in mm)	63 Hz	125Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
80	4	11	22	39	45	48	37	33
100	4	10	15	28	40	50	44	27
125	3	7	14	29	50	55	32	18
160	2	4	10	25	46	43	20	12
200	1	4	9	23	37	28	14	8
250	2	3	8	23	33	23	10	9
315	1	2	5	16	27	20	11	10
355	1	1	6	16	24	20	12	9
400	4	1	5	17	23	20	13	10
450	2	2	5	16	20	11	10	7
500	3	2	5	15	16	14	11	8

Vmax = 20 m/s

Tests carried out according to ISO 7235 : 2004 standard

CONFORT 100 Soundproofing casing thickness = 100 mm

		Attenuation (dB)							
Nominal diameter (in mm)	Length (in mm)	63 Hz	125Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
315	1000	5	10	14	14	21	23	11	7
400	1000	3	7	10	12	18	15	8	6
560	1000	1	5	8	12	12	10	6	5
630	1000	2	3	7	10	10	8	6	4
710	1500	2	4	13	18	13	12	10	11
800	1500	2	4	13	18	13	12	10	11
1000	2000	3	9	15	18	12	11	10	10
1250	2000	4	6	8	14	10	10	10	8

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PRESSURE LOSSES AND REGENERATIONS

For direct silencers, pressure losses and regenerations are considered as negligible.

If you require higher acoustic performances, F2A recommends the OPTIMUM range: circular silencers equipped with a central attenuator.