

Technical DATA SHEET

ENGINE EXHAUST SILENCER

SM30 EVO 2

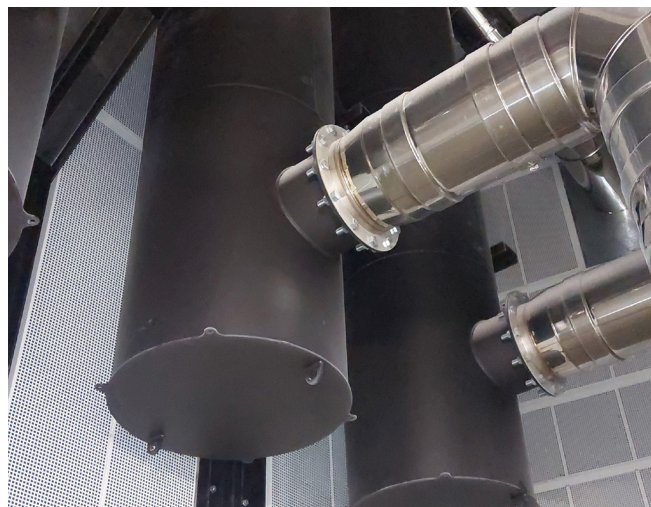
Compact, efficient and robust, the SM EVO® 2 sets a new benchmark for exhaust silencers designed for internal combustion engines. With its optimized design, it delivers improved engine performance, enhanced noise reduction, and easier installation.

Combining compactness, acoustic performance and aerodynamic efficiency, the SM EVO® 2 meets the most stringent requirements of industrial applications.

- Guaranteed performance of 30 dB(A)
- Optimized pressure drop
- Reduced mass and overall dimensions
- Improved internal flow
- Also available in 40 and 50 dB(A) versions



Contact us for a specific request



Technical features

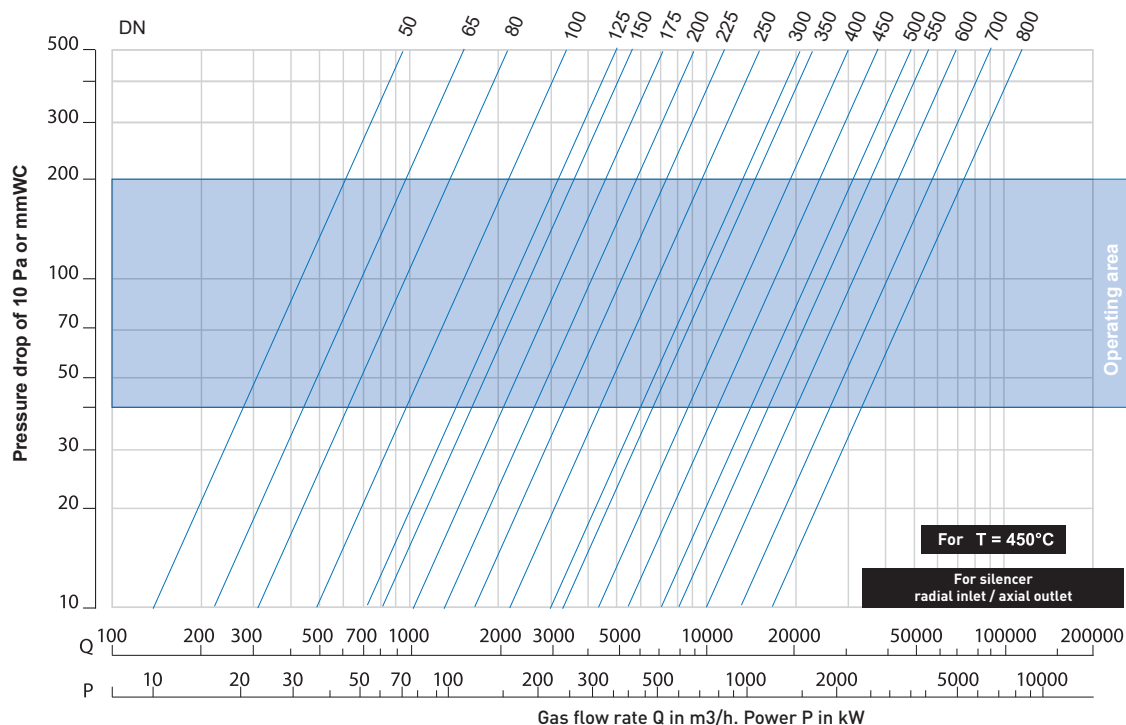
		Standard	Customized
Casing	Material	Carbon steel S235JR	304L, 316L or other stainless steels
	Connection	PN10 folded-edge flanges <DN400 PN10 reduced-thickness flanges > DN400	Available on request (BW, BS10, WN...)
Soundproofing	Material	High-density fire-resistant mineral wool	Also available with alternative fibers
	Protection	Perforated metal sheet	
Orientation		Radial-Axial, Axial-Axial	Any configuration available
Available configurations		Multi-inlets, supports, spark arresters, catalyst, SCR, DPF...	

Intrinsic noise reduction dB of SM30 EVO 2 radial inlet version

DN f	50	65	80	100	125	150	175	200	225	250	300	350	400	450	500	550	600	700	800
31,5 Hz	6	6	6	6	6	5	5	5	5	5	5	5	5	5	5	5	5	5	5
63 Hz	11	11	11	11	13	13	15	15	15	16	16	16	16	16	16	16	16	16	16
125 Hz	11	12	14	17	18	26	25	25	25	25	25	25	25	23	23	22	23	25	25
250 Hz	17	17	22	24	24	31	29	28	26	26	27	28	29	27	27	27	27	29	29
500 Hz	24	23	29	33	30	31	29	29	28	28	29	31	32	31	31	31	32	33	32
1000 Hz	30	31	40	46	44	39	36	35	35	35	36	38	37	36	38	39	42	43	44
2000 Hz	38	42	53	60	60	42	40	39	41	44	49	53	54	55	57	57	58	58	59
4000 Hz	35	35	40	40	40	35	35	35	35	40	40	50	50	50	50	50	50	50	50
8000 Hz	30	30	35	35	35	30	30	30	30	35	35	45	45	45	45	45	45	45	45

Nominal diameter selection

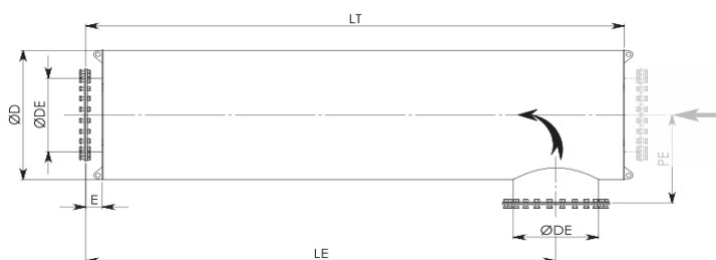
The selection of the nominal diameter (DN) of the SM EVO® 2 silencer depends on the gas flow rate and the allowable pressure losses. The chart below illustrates the recommended operating ranges, ensuring an optimal balance between acoustic performance and engine efficiency.



Dimensional table (in mm)

DN	50	65	80	100	125	150	175	200	225	250	300	350	400	450	500	550	600	700	800
ØDE (mm)	60,3	76,1	88,9	114,3	139,7	168,3	193,7	219,1	246	273	323,9	355,6	406,4	457	508	559	610	711	813
ØD (mm)	180	220	250	290	370	400	450	480	510	550	600	660	740	770	820	900	950	1080	1200
LT (mm)	546	596	896	1246	1427	1457	1557	1632	1932	2096	2408	2331	2556	2831	3056	3356	3582	4086	4607
LE (mm)	443	497	779	1116	1283	1292	1365	1438	1719	1850	2151	2051	2245	2495	2693	2945	3140	3596	4064
E (mm)	50	50	50	50	81	80	80	80	80	90	91	100	100	100	100	100	101	101	120
PE (mm)	140	160	175	195	235	280	305	320	335	355	380	430	470	485	510	550	575	640	700
Net weight without flanges (kg)	8	12	19	33	49	62	78	98	120	138	176	222	278	324	378	536	598	833	1078
Gross weight without flanges (kg)	12	16	23	37	57	70	86	106	138	157	196	244	302	349	404	575	639	879	1127
Net weight with flanges (kg)	12	17	25	40	58	75	92	112	136	161	202	258	326	381	440	612	678	971	1248
Gross weight with flanges (kg)	15,5	20,5	28,5	43,5	65,5	82,5	99,5	119,5	154	180	222	280	350	406	466	651	719	1017	1297

Dimensions given without flanges – Dimensional tolerances according to ISO 13920 class B



Certified quality management system

ISO 9001



ISO 14443



Certified company

EN 15085-2



GROUPE BOËT

23 rue d'Amsterdam, 59200 Tourcoing - France
www.groupe-boet.com - contact@boet-stopson.com
 T : +44 (0) 7564 052296