

EXHAUST TECHNOLOGY



Silencers of type L45 are especially designed for applications with extreme critical noise demands, specifically for low frequencies. These silencers can be used for exhaust as well as inlet damping for 2 and 4 stroke internal combustion engines.

They are based on the reflection principle and it is possible to "tune" the silencer for certain dominant frequencies. Extreme sound reduction across the entire frequency range is possible when combined with an absorption silencer of type HXM. For example, many such combinations are found in (emergency) power supplies and CHP plants in hospitals, near domestic areas and other critical areas.

Mounting

These silencers may be mounted in any position, considering of course the indicated direction of flow. By use of our supports and mounting brackets easy fitting of the silencers is possible.

Note!

Exhaust systems of internal combustion engines are subject to pulsations and other vibration phenomena, therefore it is recommended to mount the entire exhaust system free from vibrations, by applying suitable vibration isolators. As we are exhaust system specialists, we of course can provide a complete program of vibration absorbers and expert advice by our engineers.

Quality and safety

Our manufacturing process from design to delivery is in conformity with the ISO 9001:2000 standard, for which we have been certified. Our silencers are built-in components, therefore no CE marking applies. However in the description of your final product you will have to indicate potential dangers, for example risk of burns. Therefore we have put a label on your silencer in advance.



Technical specifications

Attenuation

Recommended designed gas flow

Pressure drop silencer

Maximum allowable gas temperature

materials please ask for our advice. Material S 235 JR G2; Stainless-steel, Corten or others are optional Preservation anticorrosive heat-resistant coating (gray): for other paint

min. 20 and max. 50 m/s

systems please ask for our advice.

see CW-values in the following chart

Insulation as the body virtually will take the temperature of the medium,

In many cases lagging will be necessary. Additional insulation may be needed when noise breakout of the body is a decisive

600°C: applies to S 235 JR G2. For other temperatures /

factor for achieving the noise demand.

Flanges drilled according to DIN 2573 PN6. Other flange models on

request

25 - 35 dB

Identification plate with silencer type and order number

single or double inlet, radial in- and/or outlet positions, Options

mounting supports, condensation drain, QAQC planning and/or

certificates, integrated catalytic converter

Dimensions

nal	A (mm) outer pipe diameter	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	weight (kg)	CW
1½"	48,3	256	900	770	50	50	17	3,72
2"	60,3	306	1000	850	50	50	26	3,56
2½"	76,2	356	1000	850	75	75	32	3,75
3"	88,9	409	1500	1275	75	75	50	3,53
4"	114,3	482	1750	1506	100	150	103	3,61
5"	139,7	558	1750	1506	100	150	130	3,89
6"	168,3	658	2500	2256	100	200	213	3,29
8"	219,1	758	2500	2256	150	200	300	3,75
10"	273,0	908	3000	2760	150	250	432	4,11
12"	323,9	908	3250	3010	150	250	462	2,92
14"	355,6	958	3750	3510	150	250	554	3,74
16"	406,4	1060	3750	3512	150	270	819	2,85
18"	457,2	1210	4000	3762	150	300	1025	3,95
20"	508,0	1310	4500	4562	150	325	1240	3,22
	1½" 2" 2½" 3" 4" 5" 6" 8" 10" 12" 14" 16" 18"	A (mm) outer pipe diameter 1½" 48,3 2" 60,3 2½" 76,2 3" 88,9 4" 114,3 5" 139,7 6" 168,3 8" 219,1 10" 273,0 12" 323,9 14" 355,6 16" 406,4 18" 457,2	A (mm) outer pipe diameter 1½" 48,3 256 2" 60,3 306 2½" 76,2 356 3" 88,9 409 4" 114,3 482 5" 139,7 558 6" 168,3 658 8" 219,1 758 10" 273,0 908 12" 323,9 908 14" 355,6 958 16" 406,4 1060 18" 457,2 1210	A (mm) outer pipe diameter B (mm) C (mm) 1½" 48,3 256 900 2" 60,3 306 1000 2½" 76,2 356 1000 3" 88,9 409 1500 4" 114,3 482 1750 5" 139,7 558 1750 6" 168,3 658 2500 8" 219,1 758 2500 10" 273,0 908 3000 12" 323,9 908 3250 14" 355,6 958 3750 16" 406,4 1060 3750 18" 457,2 1210 4000	A (mm) outer pipe diameter B (mm) C (mm) D (mm) 1½" 48,3 256 900 770 2" 60,3 306 1000 850 2½" 76,2 356 1000 850 3" 88,9 409 1500 1275 4" 114,3 482 1750 1506 5" 139,7 558 1750 1506 6" 168,3 658 2500 2256 8" 219,1 758 2500 2256 10" 273,0 908 3000 2760 12" 323,9 908 3250 3010 14" 355,6 958 3750 3510 16" 406,4 1060 3750 3512 18" 457,2 1210 4000 3762	A (mm) outer pipe diameter B (mm) C (mm) D (mm) E (mm) 1½" 48,3 256 900 770 50 2" 60,3 306 1000 850 50 2½" 76,2 356 1000 850 75 3" 88,9 409 1500 1275 75 4" 114,3 482 1750 1506 100 5" 139,7 558 1750 1506 100 6" 168,3 658 2500 2256 100 8" 219,1 758 2500 2256 150 10" 273,0 908 3000 2760 150 12" 323,9 908 3250 3010 150 14" 355,6 958 3750 3510 150 16" 406,4 1060 3750 3512 150 18" 457,2 1210 4000 3762<	A (mm) outer pipe diameter B (mm) C (mm) D (mm) E (mm) F (mm) 1½" 48,3 256 900 770 50 50 2" 60,3 306 1000 850 50 50 2½" 76,2 356 1000 850 75 75 3" 88,9 409 1500 1275 75 75 4" 114,3 482 1750 1506 100 150 5" 139,7 558 1750 1506 100 150 6" 168,3 658 2500 2256 100 200 8" 219,1 758 2500 2256 150 200 10" 273,0 908 3000 2760 150 250 12" 323,9 908 3250 3010 150 250 14" 355,6 958 3750 3512 150 270	A (mm) outer pipe diameter B (mm) C (mm) D (mm) E (mm) F (mm) weight (kg) 1½" 48,3 256 900 770 50 50 17 2" 60,3 306 1000 850 50 50 26 2½" 76,2 356 1000 850 75 75 32 3" 88,9 409 1500 1275 75 75 50 4" 114,3 482 1750 1506 100 150 103 5" 139,7 558 1750 1506 100 150 130 6" 168,3 658 2500 2256 100 200 300 10" 273,0 908 3000 2760 150 250 432 12" 323,9 908 3250 3010 150 250 462 14" 355,6 958 3750 3510 150

For standard dimensions see above chart; larger or other dimensions available on request

