DISCOM
The art of silence
industrial noise control

Silencer type L45

exhaust systems

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.

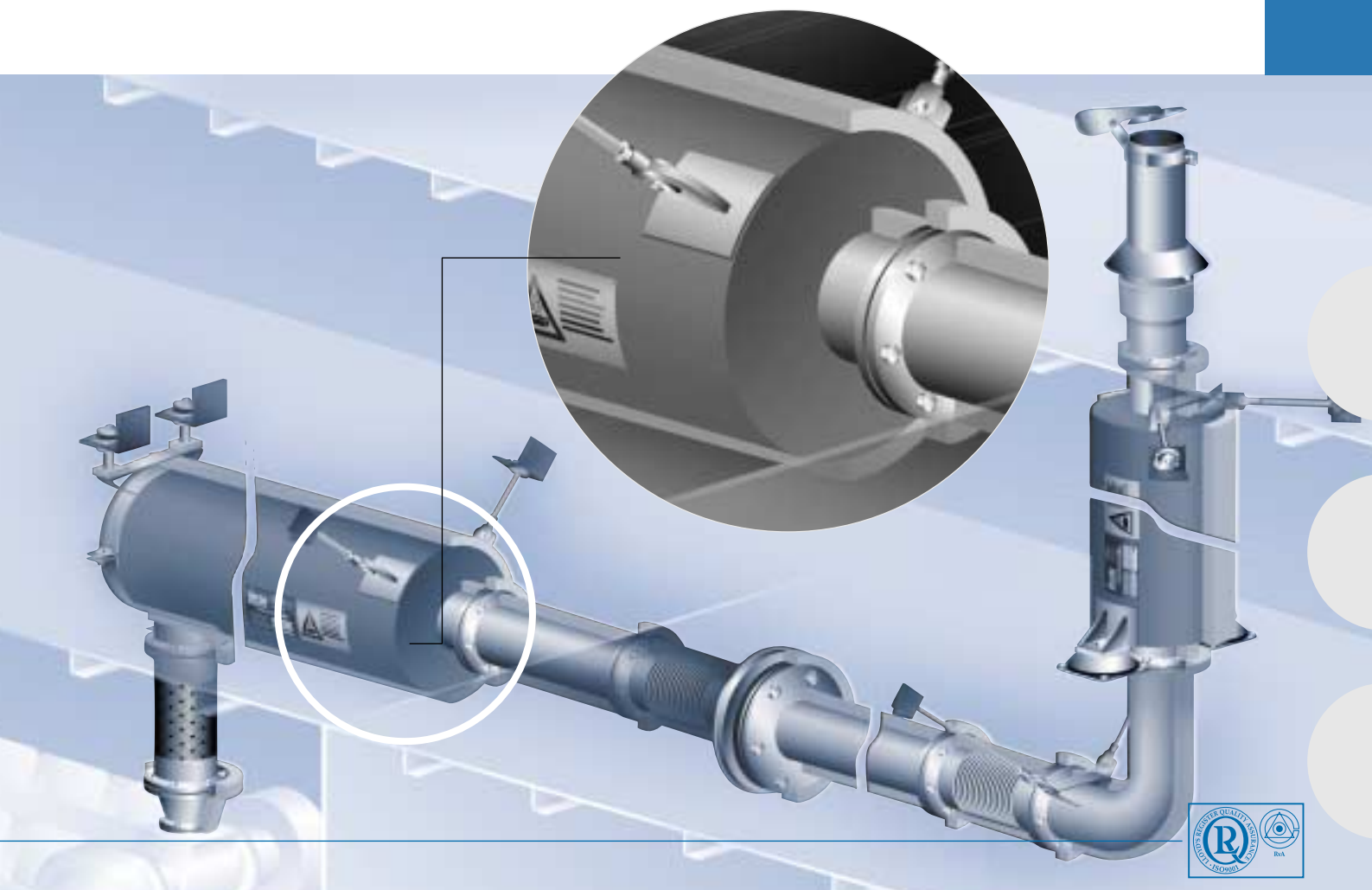
Mounting

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.



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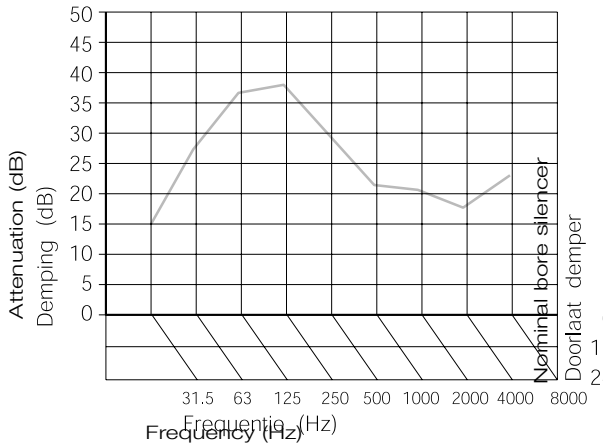
Technical specifications

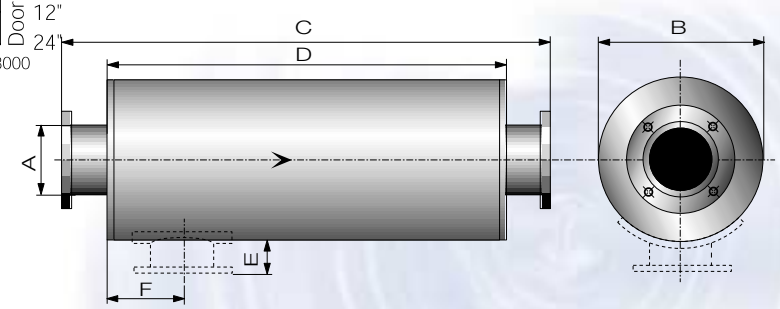
Attenuation	25-35 dB
Recommended designed gas flow	20-40 m/s
Pressure drop silencer	see CW-values in the following chart
Maximum allowable gas temperature	600°C: applies to S 235 JR G2. For other temperatures / materials please ask for our advice.
Material	S 235 JR G2; Stainless-steel, Corten or others are optional
Preservation	anticorrosive heat-resistant coating (gray): for other paint systems please ask for our advice.
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 factor for achieving the noise demand.
Flanges	drilled according to DIN 2573 PN6. Other flange models on request
Identification	plate with silencer type and order number
Options	single or double inlet, radial in- and/or outlet positions, mounting supports, condensation drain, QAQC planning and/or certificates, integrated catalytic converter

Dimensions

NB (nominal bore)		A (mm) outer pipe diameter	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	Weight (kg)	CW
40	1 1/2"	48.3	256	900	770	50	50	17	3.72
50	2"	60.3	306	1000	850	50	50	26	3.56
65	2 1/2"	76.2	356	1000	850	75	75	32	3.75
80	3"	88.9	409	1500	1275	75	75	50	3.53
100	4"	114.3	482	1750	1506	100	150	103	3.61
125	5"	139.7	558	1750	1506	100	150	130	3.89
150	6"	168.3	658	2500	2256	100	200	213	3.29
200	8"	219.1	758	2500	2256	150	200	300	3.75
250	10"	273.0	908	3000	2760	150	250	432	4.11
300	12"	323.9	908	3250	3010	150	250	462	2.92
350	14"	355.6	958	3750	3510	150	250	554	3.74
400	16"	406.4	1060	3750	3512	150	270	819	2.85
450	18"	457.2	1210	4000	3762	150	300	1025	3.95
500	20"	508.0	1310	4500	4562	150	325	1240	3.22

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





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