

Silencers of type LH35 are especially designed for applications of exhaust systems of 2 and 4 stroke internal combustion engines with critical noise demands, in that way becoming an “everybody’s friend”.

They are based on a combination of the reflection and absorption principle, providing excellent sound reduction across the entire frequency range. As a single silencer they are applied to all types of internal combustion engines for propulsion, auxiliary power, current generation, etc.

Combined with an absorption silencer of type HM or HXM the acoustic performance of your exhaust system can be improved even more.

This damper is also available as LHCP35. This has an integrated spark arrestor which has been tested according to the NEN-EN 1834-1 directive and has a mutual recognition type approval, which means that this certificate is recognised by most certifying bodies (such as DNV.GL, BV, ABS, RINA, etc.). The installation dimensions are identical to those of the LH35.

The performance of this silencer is unique as compared to its price, making it very popular. To meet the demand, they are usually available from stock.

### **Mounting**

These silencers may be mounted in any position, considering of course the indicated direction of flow.

The spark collector of the LHCP35 must be placed underneath the horizontal axis. 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 such 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 any potential dangers, for example risk of burns. Therefore we have put a label on your silencer in advance.

### **Note!**

Silencers of type LHCP35 are supplied with a spark arrestor. For proper operation, regular cleaning is necessary.

## Solutions for noise, emission and heat

### **Technical specifications**

Attenuation	25 - 35 dB
Recommended designed gas flow	min. 20 and max. 50 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 (anthracite).
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 EN1092-1 type 01 table 11 (DIN 2573 PN6). Other flange models on request
Identification	plate with silencer type and order number
Maintenance	regular cleaning of spark arrestor
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	1½"	48,3	206	900	765	50	13	5,37
50	2"	60,3	206	900	765	50	14	4,97
65	2½"	76,2	256	1000	850	75	22	5,16
80	3"	88,9	306	1000	850	75	30	4,84
100	4"	114,3	356	1500	1270	100	49	4,93
125	5"	139,7	401	1500	1275	100	65	5,10
150	6"	168,3	482	1750	1506	100	124	4,51
200	8"	219,1	558	2000	1756	150	200	4,67
250	10"	273,0	658	2500	2256	150	250	4,95
300	12"	323,9	758	2750	2510	150	318	3,99
350	14"	355,6	800	3000	2760	150	420	4,70
400	16"	406,4	858	3250	3010	150	501	3,83
450	18"	457,2	908	3500	3250	150	569	4,66
500	20"	508,0	960	3750	3510	150	643	3,91

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

