

LDR 30-15 Silencer

Article Number: 5068



Description

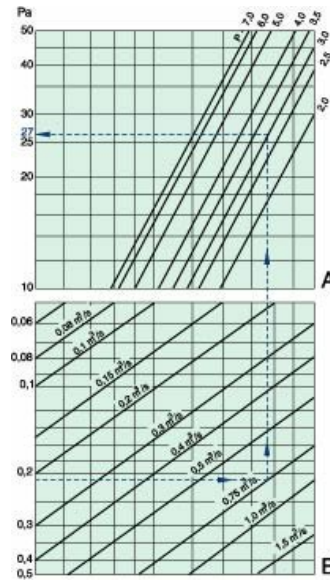
Silencer

Easily-fitted silencer immediately before or after the KE, KT, RS and RSI rectangular duct fans. Effective suppresses noise transmitted to the duct. The silencer should be used together with an insulated fan where there is a requirement for noise suppression both in the duct and in the surroundings as a whole. All silencers are supplied with a universal flange suitable for PG flange or Metu profile.

Technical parameters

| Dimensions and weights | |
|-----------------------------|--------------|
| Rectangular, height, inlet | 150 x 300 mm |
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| Weight | 9.2 kg |
| Others | |
| Duct connection type | Rectangular |

Performances

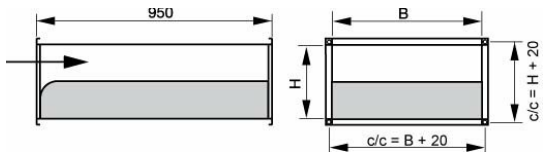


| | Front area m ² | P |
|------------|---------------------------|-----|
| LDR 30-15 | 0.045 | 3.5 |
| LDR 40-20 | 0.08 | 3.6 |
| LDR 50-25 | 0.125 | 3.7 |
| LDR 50-30 | 0.15 | 3.3 |
| LDR 60-30 | 0.18 | 3.3 |
| LDR 60-35 | 0.21 | 3.0 |
| LDR 70-40 | 0.28 | 3.1 |
| LDR 80-50 | 0.40 | 3.6 |
| LDR 100-50 | 0.50 | 3.6 |

Pressure drop calculation for rectangular silencers These calculations apply only if the silencer is connected to a duct at both ends. Example: Calculation of pressure drop for the LDR 60-35 (with dan model RSI 60-35 M3-) using the diagram to the right. 1. Start by defining the front area, see the table below. 2. Move horizontally to the right until you reach the designated air flow in diagram B. 3. Go up vertically to diagram A and the correct p value (see the table). 4. Then continue horizontally to the left and read off the pressure drop. In this example, the pressure drop is 27 Pa.

Dimension

| | B | H |
|------------|------|-----|
| LDR 30-15 | 300 | 150 |
| LDR 40-20 | 400 | 200 |
| LDR 50-25 | 500 | 250 |
| LDR 50-30 | 500 | 300 |
| LDR 60-30 | 600 | 300 |
| LDR 60-35 | 600 | 350 |
| LDR 70-40 | 700 | 400 |
| LDR 80-50 | 800 | 500 |
| LDR 100-50 | 1000 | 500 |



Acoustic

Noise suppression dB (mid-frequency
Hz)

| | 125 | 250 | 500 | 1k | 2k | 4k | 8k |
|------------|-----|-----|-----|----|----|----|----|
| LDR 30-15 | 7 | 15 | 18 | 25 | 25 | 19 | 19 |
| LDR 40-20 | 5 | 9 | 15 | 23 | 16 | 12 | 10 |
| LDR 50-25 | 10 | 15 | 25 | 25 | 20 | 15 | 12 |
| LDR 50-30 | 8 | 15 | 20 | 31 | 17 | 14 | 11 |
| LDR 60-30 | 8 | 15 | 20 | 31 | 17 | 14 | 11 |
| LDR 60-35 | 7 | 13 | 17 | 18 | 13 | 10 | 8 |
| LDR 70-40 | 7 | 11 | 14 | 14 | 10 | 8 | 6 |
| LDR 80-50 | 6 | 8 | 10 | 11 | 8 | 6 | 3 |
| LDR 100-50 | 6 | 8 | 10 | 11 | 8 | 6 | 3 |