

Rectangular attenuators

SPTS



Description

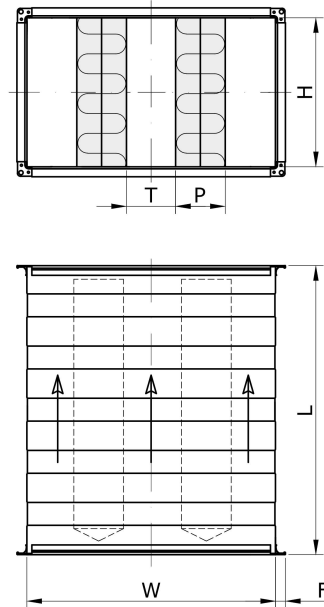
The rectangular attenuator is installed after fan in duct system to dampen the noise energy from the noise source. The products can be made of: galvanized steel sheet - corrosion class C3-L / C2-M; sheet with aluminium zinc coating - corrosion class C4-M / C3-H; stainless steel sheet AISI 304 (1.4301) or AISI 316L (1.4404) - corrosion class C5. Surfaces is made with reinforcement, stiffened with transverse trapezoid corrugations, resulting in low self-noise and greater resistance to pressure vibrations. Inside attenuator is made with an acoustic baffles, which absorbs the energy of noise. Baffle is made of rock wool covered with black fibreglass. The fibre protects the wool from abrasion and ingress of air into the stream. The maximum air velocity is 20 m/s. Standard attenuator connection tightness class B according to LST EN 1507. The low-build attenuator can be used at temperatures from -45 to +80 °C. The materials used in the manufacture of the attenuator are class A1. The maximum permissible absolute humidity inside and outside the air stream is 18 g / kg. Protective films that ensure cleanliness are placed on customer request when ordering.

Ordering code

Product	SPTS500300L1250P100T60		
Size			
Length, mm			
Baffle width, mm			
Distance between bafflers, mm			

Sample: SPTS500300L1250P100T60 – attenuator, dimensions WxHxL - 500x300x1250 mm, with bafflers 100 mm, distance between bafflers 60 mm.

Dimensions



	W [mm]	H [mm]
Minimum dimension	200	300
Maximum dimension	2500	2500
Flange F20	Up to 1499	Up to 1499
Flange F30	1500-2500	1500-2500
Standard length L [mm]	500, 900, 1200, 1500	
Distance between bafflers T [mm]	30 - 100	
Baffle width P [mm]	100, 150, 200	

Technical data

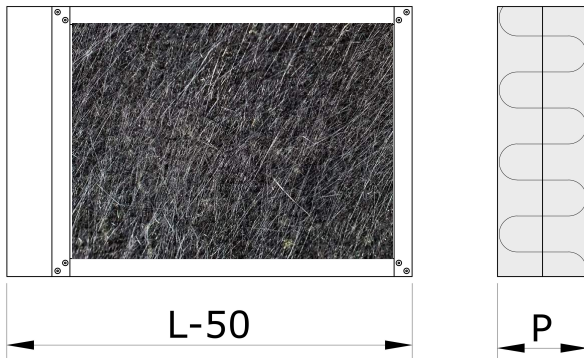
Surfaces is made with reinforcement, stiffened with transverse trapezoid corrugations. Ducts flanges come with a sealing gel. The gel meets the requirements of VDI 6022 standard. In a duct system, attenuators may only be installed when the bafflers are in a vertical position. If necessary, the attenuator elements can be cleaned dry or semi-wet. It is recommended that you do this with the aid of a vacuum cleaner. The amount of bafflers and their dimensions depend on the input data. To get sound data, use the silencer selection software on the manufacturer's website. The baffle is made of galvanized sheet metal frame, with mineral wool panels inside which are covered with black fibreglass lining. Wool density is 50-80 kg/m³. Attenuators bigger than 1500 mm, will be made of two equal parts.

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Technical data

The baffle is made of galvanized sheet metal frame with a mineral wool slab inside covered with black fibreglass. The fibreglass protects the wool from abrasion and dust at high air velocities in the attenuator. This type of attenuation baffle is used to suppress low to mid frequency noise. In the air inlet section, an airflow diverting triangle is placed on the bulkhead to reduce air pressure drop and airflow turbulence. Inside the SPTC silencer, a portion of the attenuation baffle is positioned sideways across the entire area to cover any possible attenuation area.



The dimensions of rectangular attenuators are equal 800, 900, 1200, 1500 mm. The bafflers are reduced by 50 mm to fit into the duct between flanges. If the attenuator is selected longer than 1500 mm, it is always split in half and two attenuators of equal length are produced.

Selection

For selecting rectangular attenuators, it's best to use the cloud application on the manufacturer's website. It allows you to input data and select the most appropriate attenuator.

The desired attenuation [dB] should be entered into the software data and the selection software will output the closest and better attenuators. Each data constraint reduces the choice of options, but the data must be all logical. The attenuators in the selection software are coded with unique codes, for example: SL-ULZMK61-500-300-1200, from which we can see only the overall dimensions. All other data can be decrypted upon arrival at the manufacturer's representative and obtained an order code, eg: SPTS500300L1250 P100T60.