



## Type RDAD Rectangular silencer

### Application

The TIO rectangular silencer type RDAD can be installed in the ducting for almost any application and medium. The RDAD silencer combines an excellent attenuation over a wide frequency range with an easy to use external shape; for example to be integrated in container generator or compressor sets.

### Design

The acoustical performance of the silencer type RDAD is mainly based on the absorption principal. The main part of the silencer is filled with highly efficient sound absorbing mineral wool. In this mineral wool the noise energy is transmitted into heat. Before reaching the absorption part of the silencer, the medium passes through a diffuser part. The diffuser part is built-up out of a perforated tube and can be in multiple stages. Built-in separate reflexion chambers or silencer are possible.

### Attenuation

The average attenuation is depending on the dimension of the silencer. The RDAD silencer is designed on project base. Maximum app. 45 dB(A)

### Gas velocity

The maximum allowable gas velocity is depending a.o. on the noise requirement. Recommended 35 – 50 m/s

### Pressure loss

Depending on the silencer configuration en project data

### Temperature

Maximum : 600 °C.

Special designs are available for higher temperatures.

### Material

Depending on the application.

TIO standard stock materials are CS S235JRG2, SS 1.4571 and SS 4301, Other materials are optional.

### Insulation

In order to avoid that noise radiation from the body of the silencer influences the required noise level, it is recommended to insulate the silencer acoustically. As the body temperature is more or less the same as the medium temperature, it is also recommended to insulate the silencer thermally.

### Paint

Standard one layer of zinc phosphate primer. Other painting systems are optional

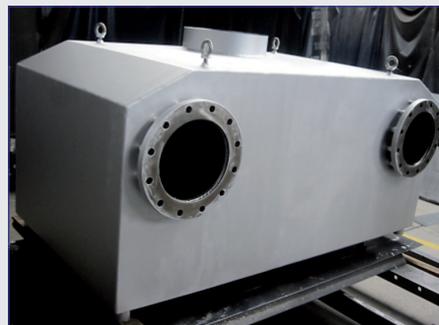
### Installation

Silencer type RDAD may be installed vertically, horizontally or in any position .Executions with a built-in raincap are suitable for fixed installation only.

### Options

For in- and outlet, special connections are available. Built-in raincaps are optional.

The RDAD silencer can be executed with a built- spark arrester.



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