



**eneva**

Energy Engineering

# STEAM VENT SILENCER

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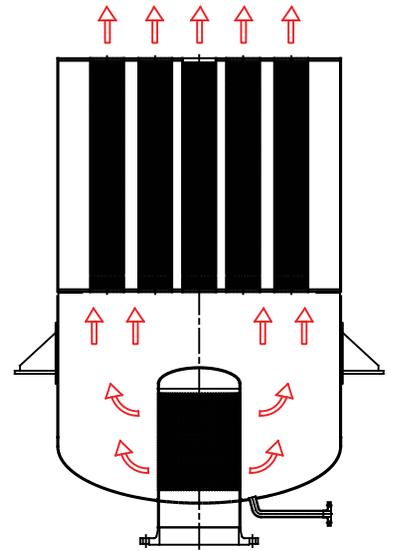
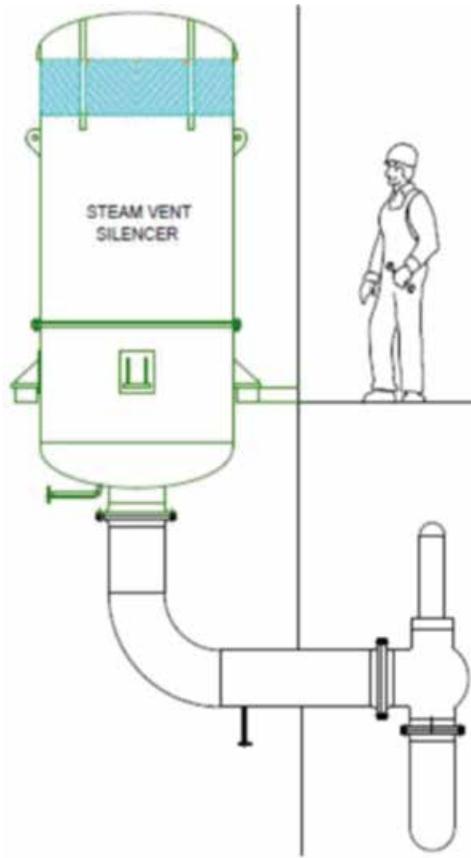
ENEVA Steam Vent Silencers combine absorptive and reactive principles to reduce the noise produced by the expansion of steam or gas from the elevated pressure level to the atmospheric pressure level. (For example safety valve discharge)

Our silencers are designed to attenuate high as well as low frequency noise level to the optimum sound level criteria at a given distance from the silencer. Steam silencer dimensions (diameter and height) are functions of noise reduction level and volumetric steam flow. Each silencer is designed considering noise reduction as well as permissible back pressure limits. Steam mainly expands in diffuser section and then, in the upper part of the silencer there are sound-absorbing passages, which reduce the noise of the valve and the flow noise according to the sound requirements. The design and calculation process requires the following data: medium type, mass flow, pressure and temperature upstream of the valve. Sound power level can be determined by the valve supplier or calculated by our engineers using formulas based on international standards.

Selection of silencer is based on back pressure and the pipe sizes with regard to flow velocity, pressure drop, flow noise and costs of the total system.

Design of the support and guiding system with regard to the thermal movements and all external loads are under consideration of existing steel structures.

Our silencers are considered as pressure vessels and designed as per EN13445 or ASME codes in case of any need.



## PRODUCT SPECIFICATION

- Vent diffuser and absorption section combined
- Sound Attenuation up to 50 dB(A)
- Operation Up to 500 oC steam temperatures
- Inlet Diameters Between DN25 to DN500
- Optimized Back Pressures for Equipments
- 2014/68 EU PED Compability
- Outer Surface Carbon Steel/Stainless Steel
- Internals P265 GH Carbon Steel/Stainless Steel

## APPLICATION AREAS

- Safety Valve Vents
- Blow-down Vents
- Pressure Control & Reducing Valve Vents
- Start-up & Purge Valve Vents
- Turbine By Pass and Warm-up Vents

## STANDARD DELIVERY

- Diffuser and Absorber
- Bird Screen
- Rain Hood
- Leg Supports
- Drain Nozzle
- Lifting Lugs