

VENT SILENCERS WITH MULTI-STAGE DIFFUSER

for safety valves / gate valves / control valves / by-pass / boiler /
condenser / plant blowdown /pressure control...

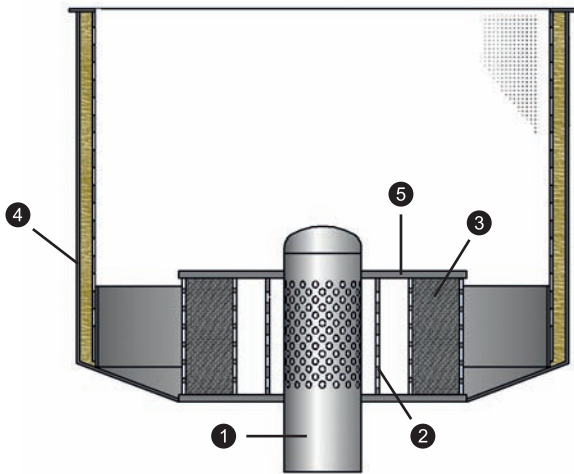
**Noise Reduction up to 50 dB
without absorbing materials**



GLAUNACH GMBH
VENT SILENCERS



DIFFUSER SILENCER

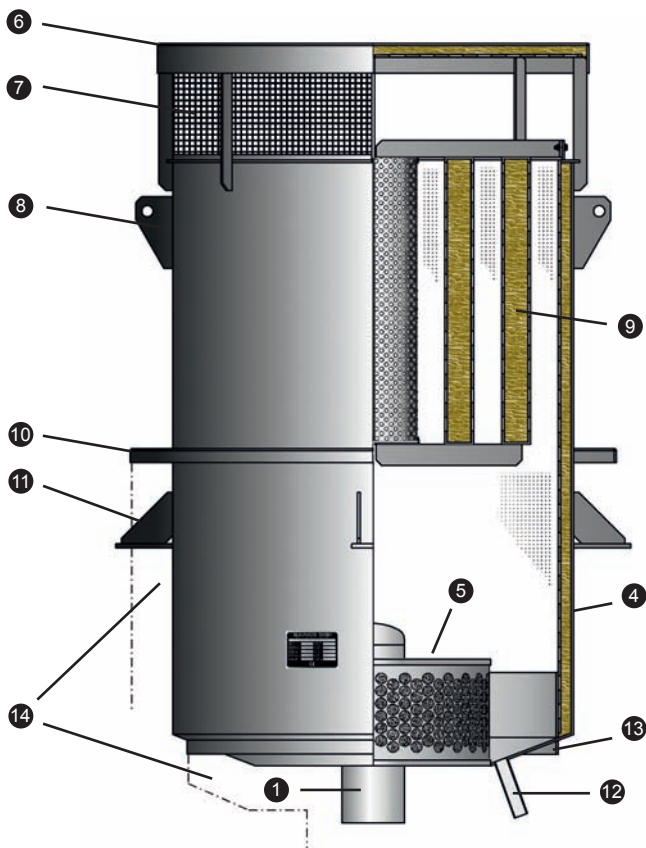


The gas flow expands through a diffuser pipe ① containing a specific number of small holes and – depending on the allowable pressure drop - further concentric expansion steps ② with an increasing number of holes. To avoid turbulence caused by these expansion steps, a flow-resistant stainless steel filler material ③ is placed after the diffuser, which reduces the flow noise.

The diffuser silencer partially transfers the pressure drop of the valve to the silencer which makes it easier to attenuate the noise. With this design a noise reduction of up to 50 dB(A) can be achieved without the need of absorbing materials at the silencer outlet.

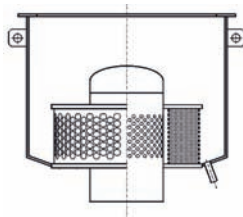
Only in case a higher noise reduction is required, or the allowed pressure drop of the silencer is very low, an additional absorber ⑨ can be installed on top of the diffuser silencer. Glaunach's combined silencers achieve almost any required noise reduction.

In comparison to standard absorbing silencers, this technology provides better noise attenuation in a substantially smaller and lighter design.

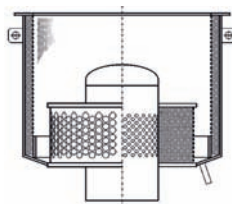


- ① diffuser pipe: 1st expansion step
- ② diffuser pipe: 2nd expansion step
- ③ diffuser filling
- ④ silencer shell
- ⑤ diffuser
- ⑥ weather hood
- ⑦ bird screen
- ⑧ lifting lugs
- ⑨ sound absorber
- ⑩ collar sheet (insulation limit)
- ⑪ brackets
- ⑫ dewatering pipe
- ⑬ eaves ring (insulation limit)
- ⑭ acoustic insulation (on site)

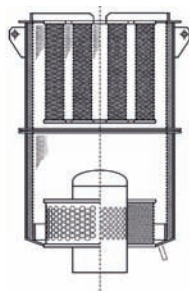
PRODUCT RANGE



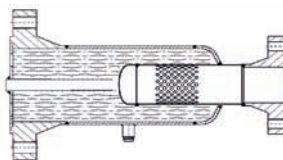
D
diffuser silencer



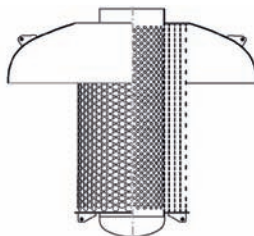
DA
diffuser silencer with acoustical
and thermal shell insulation



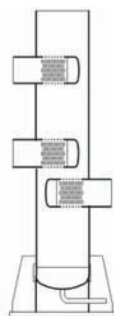
DAA
combined silencer with diffuser
and sound absorber



INLINE
diffuser silencer for closed
systems



DUMP TUBE
for air cooled condensers



INLET MANIFOLD
collection of gas flows from two
or more pipes

REFERENCES

AAF	Electrabel	Merk	Solvay
ABB	Emerson Process	Mittal	Standardkessel
Akzo Nobel	Flowserve	Mitsubishi	Stein Heurtey
Alstom	Foster Wheeler	MOL	Stora Enso
Andritz	Hitachi	Mondi	Sulzer
Babcock	Hora	Nooter Eriksen	Technip
BASF	Kawasaki	OMV Gas GmbH	Uhde
Bopp & Reuther	Krupp Thyssen	Samson	Voest Alpine
CCI	KTI	Shell	Von Roll
Degussa	Kvaerner	Siemens	Washington Group
Dow Chemical	Lurgi	Snamprogetti	Weir Valves

And more than 500 other happy customers

Our silencers are produced according to American and European codes and standards	AMERICA	EUROPE
Certified Quality Assurance Code / Guideline Harmonized Standards Welder Performance Qualific. Welding Procedure Specification Approval of welding procedures Marking Inlet Pipe Materials Non Destructive Testing Sandblasting Primer Coating Top Coating	ISO 9001 : 2008 ASME Section VIII Div.1; B31.1 NBEP - ASME Section IX ASME Section IX - - ASTM, ASME ASNT SNT-TC-1A-VT, PT, RT, MT, UT SSPC-SP 10 Carbozinc 11(CARBOLINE) Thermaline 4700(CARBOLINE)	ISO 9001 : 2008, EN 729-2 PED 97/23/EC AD-2000, TRD, EN 13480 EN 287-1/ A1 EN 288-3 / A1 EN ISO 3834-2, AD2000-HP0, TRD 201 PED 97/23/EC Kat I,II,III EN, DIN ISO-EN 473 VT, PT, RT, MT, UT ISO 12944/4- SA 2½ Remosil OM 101 (ALTANA COATING) Remosil S ALU (ALTANA COATING)

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