

Elacin SoloCom Tube

Because of the applicable requirements, both SoloCom and BoomMic may not be used in hazardous areas. In order to provide a solution for this application, Elacin introduces an expansion of the modular SafeSound • SoloCom concept, **Elacin SoloCom Tube**.



Potentially explosive environments

In hazardous areas, such as the petrochemical industry, Ex -certified audio sets are equipped with a widely used sound tube. This sound tube comes standard with a lamellar shaped cap that is pushed into the ear. A solution that offers no protection against ambient noise, while in many cases this is a requirement by Health & Safety regulations. Another disadvantage is that due to insufficient attenuation of ambient noise, the user tends to increase the volume of the two-way radio higher than what is safe for the hearing. In addition there is the annoyance of the lamellar cap that regularly comes loose from the ear.

With the arrival of the SoloCom Tube, we offer a solution to these concerns. It is a variant of the SoloCom, where the speaker is omitted and a connection for the tube is made. The ambient noise is excluded which results in a better speech intelligibility. This ensures that the volume of the two-way radio can be reduced and therewith the risk of damage to the ears is minimized.

Noise filter

As with the other SoloCom products, the SoloCom Tube will be combined with a SafeSound pair of custom-made hearing protectors. The combination is available in four attenuation values. The value can be adjusted to the prevailing noise level. This prevents over attenuation and thus the feeling of being closed off, which, besides being a nuisance, can also lead to dangerous situations. Due to the attenuation of the ambient noise it's user will naturally decrease the volume of the two-way radio, so that the hearing is loaded considerably less.

Conclusion

The combination of a SafeSound hearing protector on one side and a SoloCom Tube on the other side, ensures good communication with the surrounding area and a much better speech intelligibility of the two-way radio or telephone. Moreover, the hearing is much better protected against environmental noise.

Filters

Depending the noise level there is a choice of four filter combinations^{*)}:

- AT25 filter + Elacin RC19 filter
- AT25 filter + Elacin RC18 filter
- AT20 filter + Elacin RC17 filter
- AT20 filter + Elacin RC15 filter

*) See also SafeSound

Application of use

- Safe communication in the workplace, without having to take the hearing protection out of the ear.
- Access to wireless communication in a noisy (work) environment.
- Anyone who wants to combine hearing protection and communication.
- Where (Otto or Motorola) listening devices are already in use.
- The wearing comfort of the listening device hinders.
- The environmental noise makes hearing protection necessary.

Suitable for

- Industrial environments
- Construction
- Assembly and carpentry companies
- Shipyards
- Emergency services
- Security

Benefits

- Custom-made, perfect fit
- Choice of various filter types; no over attenuation
- Optimal speech intelligibility
- Safe and comfortable
- High wearing comfort

Attenuation values

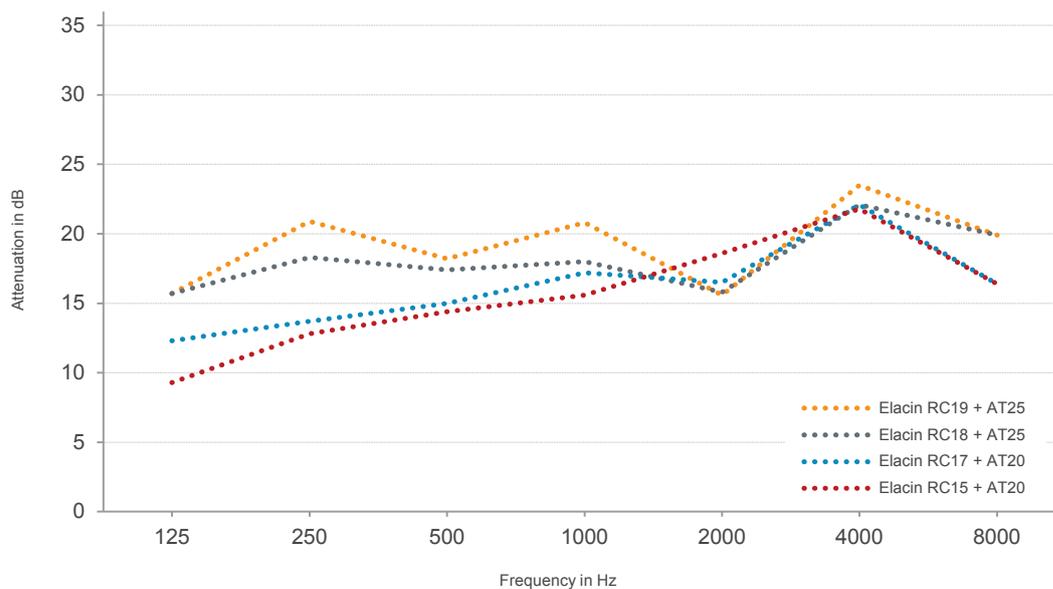
f in Hz		125	250	500	1000	2000	4000	8000	H	M	L	SNR
APVf [dB]	Elacin RC19 + AT25	15,7	20,9	18,2	20,8	15,6	23,5	19,9	18	19	19	20
	Elacin RC18 + AT25	15,7	18,3	17,4	18,0	15,8	22,1	19,9	18	18	17	20
	Elacin RC17 + AT20	12,3	13,7	15,0	17,2	16,5	22,1	16,4	18	17	15	19
	Elacin RC15 + AT20	9,3	12,8	14,4	15,6	18,6	21,8	16,4	19	16	14	19

f in Hz		125	250	500	1000	2000	4000	8000
Mf [dB]	Elacin RC19 + AT25	19,0	23,3	20,2	23,3	20,1	26,1	24,6
	Elacin RC18 + AT25	19,0	20,6	20,7	20,4	20,0	26,8	24,6
	Elacin RC17 + AT20	14,5	15,9	17,8	19,3	19,9	25,3	21,7
	Elacin RC15 + AT20	12,6	14,5	17,1	18,3	22,1	26,1	21,7

f in Hz		125	250	500	1000	2000	4000	8000
Sf [dB]	Elacin RC19 + AT25	3,3	2,4	2,0	2,5	4,5	2,6	4,7
	Elacin RC18 + AT25	3,3	2,3	3,3	2,4	4,2	4,7	4,7
	Elacin RC17 + AT20	2,2	2,2	2,8	2,1	3,4	3,2	5,3
	Elacin RC15 + AT20	3,3	1,7	2,7	2,7	3,5	4,3	5,3

Attenuation curve

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Electrical data (EN352-6)

Elacin SoloCom Tube combined with Otto or Motorola Surveillance kit

Input [mV]	24
Output [dB(A)]	82