

## Modular hearing protection

Serenity SP is a custom-made modular hearing protection system. This modularity allows different interchangeable acoustic filters and/or headsets to be inserted into a user's ear shells, for example to change the attenuation level or use another Serenity device.

## Serenity SP

Features :

- Custom molded nylon ear shells (eShells) :
  - Outstanding comfort
  - Skin friendly (no sweating, no irritation)
  - Feather light
  - Highly robust
  - Cost-effective to replace
- Acoustic attenuation filters fitted into the earJacks :
  - several noise attenuation values
  - perception of loud warning signals maintained



- Protection level verifiable
- Compatible with helmets, masks and glasses
- Upgradeable with communication

## General Features

Weight	10 g
Marking	Unique user ID on each eShell
Accessories	Silicone cord with safety breaks Attachment clip Metal detection (optional) Carrying case

# Hearing Protection Specifications

Serenity SP complies with the regulation (EU) 2016/425 and is tested and certified according to EN 352-2:2020 and ANSI S3.19-1974.

Certification values (dB)

Phonak Serenity SP white or anthracite filter 110WH / 110AN										
SNR (dB)	32	H	30	M	30	L	30	NRR (dB)	25	
SNR <sub>m</sub> (dB)	33.6	H <sub>m</sub>	32.2	M <sub>m</sub>	32.9	L <sub>m</sub>	33.1			
SNR <sub>s</sub> (dB)	2.0	H <sub>s</sub>	2.0	M <sub>s</sub>	2.7	L <sub>s</sub>	3.2			

Phonak Serenity SP orange filter 105OR										
SNR (dB)	31	H	30	M	29	L	26	NRR (dB)	22	
SNR <sub>m</sub> (dB)	33.2	H <sub>m</sub>	32.5	M <sub>m</sub>	32.2	L <sub>m</sub>	29.8			
SNR <sub>s</sub> (dB)	2.7	H <sub>s</sub>	2.7	M <sub>s</sub>	3.1	L <sub>s</sub>	3.5			

CE Certification data according to EN 352-2:2020								
F (Hz)	63	125	250	500	1000	2000	4000	8000
MA (dB)	28.1	34.0	32.8	34.8	34.5	33.6	31.5	40.7
SD (dB)	2.4	3.8	3.3	5.4	3.9	4.1	2.8	5.1
APV (dB)	25.7	30.2	29.5	29.4	30.6	29.5	28.7	35.6

CE Certification data according to EN 352-2:2020								
F (Hz)	63	125	250	500	1000	2000	4000	8000
MA (dB)	22.9	26.8	28.3	31.5	34.4	33.9	31.9	42.6
SD (dB)	3.7	3.9	5.6	4.4	4.5	4.6	4.7	4.8
APV (dB)	19.2	22.9	22.7	27.1	29.9	29.3	27.2	37.8

Certification data according to ANSI S3.19-1974									
F (Hz)	125	250	500	1000	2000	3150	4000	6300	8000
MA (dB)	34.0	33.4	35.3	34.7	34.6	38.3	32.3	40.4	41.3
SD (dB)	4.4	4.5	4.1	4.3	4.2	5.7	3.6	4.1	4.5

Certification data according to ANSI S3.19-1974									
F (Hz)	125	250	500	1000	2000	3150	4000	6300	8000
MA (dB)	26.4	27.2	31.4	33.4	33.6	38.0	30.0	38.4	41.4
SD (dB)	4.1	4.4	5.0	5.0	4.7	4.7	4.4	5.2	2.9

Phonak Serenity SP Yellow filter 100YE										
SNR (dB)	29	H	30	M	27	L	21	NRR (dB)	21	
SNR <sub>m</sub> (dB)	31.1	H <sub>m</sub>	32.8	M <sub>m</sub>	29.3	L <sub>m</sub>	23.9			
SNR <sub>s</sub> (dB)	2.5	H <sub>s</sub>	2.9	M <sub>s</sub>	2.6	L <sub>s</sub>	2.5			

**Key:** L Low-frequency attenuation value  
M Medium-frequency attenuation value  
H High-frequency attenuation value  
SNR Single Number Rating attenuation value  
F Frequency  
MA Mean Attenuation  
SD Standard Deviation  
APV Assumed Protection Value  
NRR Noise Reduction Rating attenuation value

CE Certification data according to EN 352-2:2020								
F (Hz)	63	125	250	500	1000	2000	4000	8000
MA (dB)	14.5	19.3	20.8	27.5	33.4	33.7	31.5	41.8
SD (dB)	2.3	2.8	2.5	3.4	4.2	4.1	3.9	4.5
APV (dB)	12.2	16.5	18.3	24.1	29.2	29.6	27.6	37.3

Certification data according to ANSI S3.19-1974									
F (Hz)	125	250	500	1000	2000	3150	4000	6300	8000
MA (dB)	18.1	20.1	26.8	31.9	33.1	38.5	31.4	37.6	43.2
SD (dB)	3.0	2.9	3.7	3.4	3.5	5.1	5.0	7.1	3.9