

Product Description

The Peltor Optime II range of passive earmuffs is available in headband, neckband, foldable or helmet mounted versions. These products are designed to provide a moderate to high level of attenuation that meets the needs of many industrial applications where high levels of noise may be encountered.

When correctly selected and worn these products help reduce exposure to hazardous levels of noise and loud sounds.

The helmet mounted version is designed to fit a wide range of industrial safety helmets (see below for further details).

NOTE: Two options are available in the Optime II range; high visibility and dielectric.

Key Features

- Modern, stylish slim line cup design
- Liquid sealing rings for improved comfort
- Unique low profile headband design helps maintain constant pressure thus providing confidence in protection
- Large space inside cup helps reduce moisture and heat build-up
- Soft wide cushions help reduce pressure around the ears and improve comfort and wearability
- Easy to replace cushions and inserts help keep them hygienically clean
- Easy to understand attenuation symbol to help ensure correct product selection
- Helmet mounted version fits directly to many industrial safety helmets without the need for an adapter.

Helmet mounted approved combination:

Helmet Manufacturer	Model	Combination size range according to EN352-3			
		P3 Adaptor	H520 (Optime II)		
3M	1465	Е	NL		
Auboueix	Brennus	F	SNL		
Auboueix	Fondelec	F	SNL		
Auboueix	Iris	E	NL		
Auboueix	Iris 2	E	NL		
Sofop Taliaplast	Oceanic	E	NL		
Sofop Taliaplast	Opus	Е	NL		
Berendsen Safety	Balance HD	N	SNL		
Centurion	1125/ARCO Plus	Н	SNL		
Centurion	1100/ARCO Type 2	Н	SNL		
Centurion	1540/ARCO	Α	NL		
Evert Larsson	Robust	E	SNL		
Evert Larsson	Balance	E	NL		
Evert Larsson	Balance AC	Е	NL		
Kemira	Top Cap	Α	SNL		
LAS	LP2002	E	SNL		
LAS	LP2006	E	SNL		
MSA	Super V-Gard II	Е	SNL		
MSA	V-Gard	Е	SNL		
Peltor	G2000	K,E	SNL		
Peltor	G22 (Basic Set)	Е	SNL		

*Protector Style 300 includes all 300-versions of this helmet.

Helmet Manufacturer	Model	Combination EN352-3	Combination size range according to EN352-3				
		P3 Adaptor	H520 (Optime II)				
Peltor	G3000	E	SNL				
Petzl	Vertex	E	SNL				
Protector	Style 300*	E	SNL				
Protector	Style 600	G	SNL				
Protector	Tuffmaster II	E,G	NL				
Romer	Bravo 2 Nomaz	В	SNL				
Romer	Marcus Top 2 Atlas Nomaz	В	SNL				
Romer	N2 Atlas Nomaz	BB	SNL				
Romer	Profi Expo	E	SNL				
Romer	Profi Nomaz	E	SNL				
Romer	Top Expo Atlas	В	SNL				
Schuberth	BEN	BB	SNL				
Schuberth	BER80/WPC80	EA	SNL				
Schuberth	BER S	E	SNL				
Schuberth	BOP R	В	SNL				
Schuberth	PIONIER	В	SNL				
Schuberth	SH91/WP91	EB	SNL				
Schuberth	SW1	EB	NL				
Uvex	Airwing	E	SNL				
Voss	Inap 88	E	SNL				
Voss	Inap Master	E	NL				
Voss	Inap Star	E	NL				
Voss	Inap PCG	G	NL				





Applications

The Peltor Optime II range of earmuffs is ideal for protection against noise arising from a wide range of applications in the workplace and leisure activities. Examples of typical applications include:-

- Airports
- Automotive
- Cement manufacture Construction
- Chemical & pharmaceutical manufacture
- Construction
- Heavy engineering
- Metal processing
- Printing
- Textile manufacture
- Woodworking

Standard & Approval

The Peltor Optime II range or earmuffs has been tested and CE approved against the European Standard EN352- 1:1993 (headband, neckband and foldable version) and EN352-3:2002 (helmet mounted version). These products meet the Basic Safety Requirements as laid out in Annex II of the European Community Directive 89/686/EEC. These products have been examined at the design stage by the Finnish Institute of Occupational Health (FIOH), Topeliuksenkatu 41aA, FIN- 00250 Helsinki, Finland (Notified Body number 0403).

Materials

The following materials are used in the manufacture of this product.

	Component	Material		
	Headband/Neckband/Foldable	Stainless Steel Wire, PVC, Acetal		
Headhand Nealthand and Faldahla	Headband padding	PVC		
Headband, Neckband and Foldable version	Cups	ABS		
VEISION	Inserts	Polyether		
	Cushions	Polyether		
	Cushion cover	PVC		
	Helmet attachment arm	Stainless Steel Wire, PVC, Acetal, Polyamid		
	Cups	ABS		
Helmet mounted version	Inserts	Polyether		
	Cushions	Polyether		
	Cushion cover	PVC		



Attenuation values

Optime II Headband Version (H520A)

Frequency (Hz)	63	125	250	500	1000	2000	4000	8000
Mf (dB)	16.2	14.6	20.2	32.5	39.3	36.4	34.4	40.2
sf (dB)	1.9	1.6	2.5	2.3	2.1	2.4	4.0	2.3
APVf (dB)	14.3	13.0	17.7	30.2	37.2	34.0	30.4	37.9



H = 34dB

M = 29dB L = 20dB

Optime II Neckband Version (H520B)

Frequency (Hz)	63	125	250	500	1000	2000	4000	8000
Mf (dB)	15.9	14.7	20.4	32.3	39.6	36.2	35.4	40.2
sf (dB)	2.1	1.8	2.6	2.5	2.2	2.4	4.2	2.4
APVf (dB)	13.8	12.9	17.8	29.8	37.4	33.8	31.2	37.8



H = 34dB

M = 29dB L = 20dB

Optime II Foldable Version (H520F)

Frequency (Hz)	63	125	250	500	1000	2000	4000	8000
Mf (dB)	16.1	14.5	20.3	32.6	39.1	35.1	34.7	39.8
sf (dB)	2.0	1.8	2.6	2.4	2.5	2.3	2.7	2.5
APVf (dB)	14.1	12.7	17.7	30.2	36.6	32.8	32.0	37.3

SNR = 31dB

H = 34dB

M = 28dB

L = 20dB

Optime II Helmet Mounted Version (H520P3)

Frequency (Hz)	63	125	250	500	1000	2000	4000	8000
Mf (dB)	15.1	14.1	19.4	32.0	39.9	36.2	35.4	39.2
sf (dB)	2.1	2.3	2.7	2.7	2.4	2.6	4.4	2.6
APVf (dB)	13.0	11.8	16.7	29.3	37.5	33.6	31.0	36.6

SNR = 30dB

H = 34dB

M = 28dB

L = 19dB











Accessories/Replacement Parts

The cushions and inserts on the Optime range II can be replaced with the HY52 Hygiene Kit for improved comfort and reassured protection.

The HY100A and HY100A-01 Hygiene Pads can be placed on the cushions to help absorb moisture and sweat.

Key

APVf = Assumed Protection Value

Mf = Mean attenuation value

sf = Standard deviation

H = High-frequency attenuation value (predicted noise level reduction for noise with L(C) - L(A) = -2dB)

M = Medium-frequency attenuation value (predicted noise level reduction for noise with L(C) - L(A) = +2dB)

L = Low-frequency attenuation value (predicted noise level reduction for noise with L(C) - L(A) = +10dB)

SNR = Single Number Rating (the value that is subtracted from the measured C-weighted sound pressure level, L(C) in order to estimate the effective A-weighted sound pressure level inside the ear).

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