

# FA 500 Custom Professional in-ear monitors

PRODUCT SPECIFICATION (V1.0)



## FEATURES

- Ultra-lightweight, customized acrylic housing and ear mold design for perfect, secure fit and consistently high sound isolation, with excellent wearing comfort and steady sound
- True phase linearity due to the single 7 mm TrueResponse® transducer covering the entire frequency range
- Virtually distortion-free with only < 0,08 % total harmonic distortion
- Reliable audio reproduction even at maximum SPL
- Replaceable, twisted-pair connection cable with excellent structure-borne noise resistance, rotatable shock-proof plug connection

## In-ear monitoring starts with the right transducer technology

A single unimpeded sound source coupled directly to the ear offers the greatest potential for the most natural, powerful, and highly nuanced audio experience, as compared to multi-way systems found in many loudspeakers and conventional IEM systems with balanced armature drivers.

In multi-way systems, crossover in individual frequency ranges of the sound source for bass, midrange and treble frequencies leads to phase coherence problems and thus to a compromised sound quality. In addition, balanced armature drivers have a significantly higher degree of distortion than a dynamic driver.

To solve this problem Sennheiser engineered the key component called the TrueResponse® technology, made of a precision-crafted broadband transducer that covers the entire spectrum, enabling maximum dynamics with the lowest distortion factor.

For us, the heart of any in-ear monitor design is the smallest element - the transducer - that makes the biggest difference, especially in the small, confined space of the ear.

## PRODUCT VARIANTS



## DELIVERY INCLUDES

- FA 500 Custom
- transport case
- cleaning tool
- instruction manual
- safety guide

## Hear and feel the FA 500 Custom difference

1. Download the Order Form
2. Have ear impressions taken at a local audiologist or one of Fischer Amp's acoustic partners
3. Send your ear impressions or digital ear scans (.stl file), together with the completed order form including your design wishes to Fischer Amps
4. Your masterpiece in-ear monitor will be crafted accurately in every detail and in combination with high-precision 3D printing technology in approximately two to three weeks
5. Your FA 500 Custom will be sent with free shipping
6. Enjoy unmatched sound with a perfect fit.

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## SPECIFICATIONS

Frequency response	6 - 20,000 Hz
Impedance	16 Ω
Sound pressure level (SPL)	126 dB (1 kHz / 1 V <sub>rms</sub> )
Total harmonic distortion (THD)	< 0.08 % (1 kHz, 94 dB)
Attenuation	up to 26 dB
Transducer technology	TrueResponse® technology (7 mm wideband transducer)
Transducer principle	dynamic
Cable length	1.3 m
Connection cable	3.5 mm jack plug, detachable
Country of origin	Made in Germany



### The best of two brands combined in one custom in-ear monitor: Sennheiser x Fischer Amps

Motivated by and together with our customers, the FA 500 Custom in-ear monitors were born, mating the sonic perfection of Sennheiser's TrueResponse® transducer technology with Fischer Amps' precise, custom-fit enclosures that provide the level of comfort and isolation that professional artists and sound engineers demand.



Shaping the future of audio and creating unique sound experiences for customers – this aim unites Sennheiser employees and partners worldwide. Founded in 1945, Sennheiser is one of the world's leading manufacturers of headphones, loudspeakers, microphones and wireless transmission systems. Since 2013, Sennheiser has been managed by Daniel Sennheiser and Dr. Andreas Sennheiser, the third generation of the family to run the company. In 2019, the Sennheiser Group generated turnover totaling €756.7 million.

[www.sennheiser.com](http://www.sennheiser.com)



TrueResponse® is a trademark of Sennheiser electronic GmbH & Co. KG, registered in the U.S. and other countries.

#### Sennheiser electronic GmbH & Co. KG

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Amplify your dreams.

Based on 20 years of experience in pro audio, Fischer Amps are the suppliers for solutions for sound engineers and artists.

From year one, Fischer Amps have been striving to simplify the work for artists and their sound engineers, to enable them to focus on their show and joy for music during live performances. In collaboration with renowned sound engineers and artists Fischer Amps are constantly developing new products which satisfy the requirements on stage and which show their reliability on stage. Convenient handling, top workmanship and sturdiness are distinctive features of all Fischer Amps products, which is achieved also by design and manufacturing in Germany which also applies to the in-ear earphones of the FA- and Rhapsody series.

[www.fischer-amps.de](http://www.fischer-amps.de)

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