

FS 249: When striving for perfection, you must break new ground



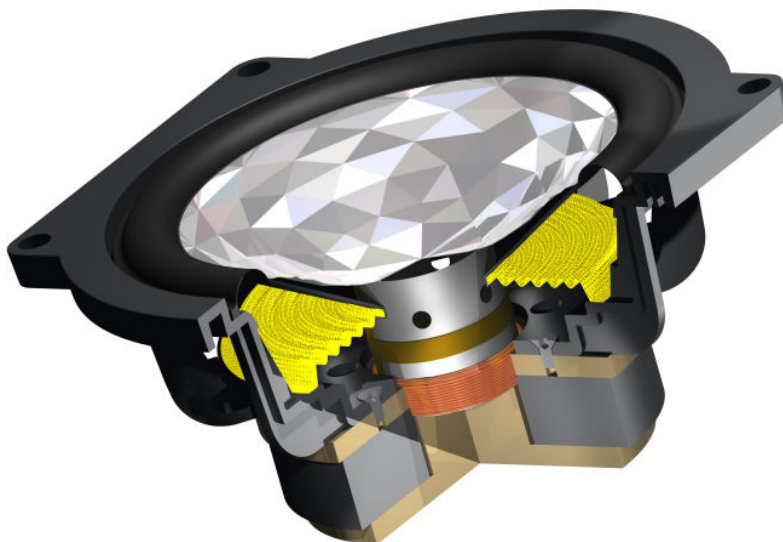
Experience music, be right in the middle of it, soak up the atmosphere, “see”, feel and sense each instrument, each voice – this is how speakers should reproduce music.

In order to reproduce music authentically, vividly and naturally, the ELAC R&D engineers have paid special attention to three-dimensional sound radiation patterns. Their aim: to acoustically “energize” the room in a consistent and harmonised way.

To this end, ELAC has developed new transducer systems for the bass and midrange, and has calibrated the crossover frequency to optimise sound radiation characteristics across the entire frequency range. The result is a uniquely precise and musical three dimensional soundscape.

Technical features and characteristics:

- The design of the new patent-pending woofer is based on the renowned ELAC aluminium sandwich technology which, by combining the different resonant characteristics of cellulose and aluminium, leads to a marked reduction in harmonic vibrations.
- The crystal-like surface of the new aluminium membrane catches both the eye & the ear. Harmonic vibrations are significantly reduced by the angled crystalline surface structure. In addition, by using a press formed structure, the membrane is more rigid and has lower distortion which not only prevents partial vibrations in the crossover zone but also reduces harmonic distortion.



Due to the high rigidity of the aluminium membrane, it is now possible to attach the solenoid not only to the cone neck but also directly to the aluminium membrane. This significantly extends the cone's bandwidth right across the frequency range giving a noticeably more even & continuous frequency response.

FS 249

Product Information





- The FS 249 also stands out with a newly developed mid-range speaker that is equipped with a dual-wave (full-roll) absorbent fabric surround. The specially designed surround absorbs & dampens lateral cone oscillations ensuring exceptionally pure output in the very sensitive mid-range area. This endows vocals in particular with a smoothness & articulation which is truly riveting.

- In the treble, ELAC uses its class leading JET tweeter, recognised worldwide as one of the very finest available. Its internal design has been reworked, which has resulted in an even more linear frequency response and improved harmonic distortion.

- A key new feature is an acoustic tuning element made from porous foam called the “JET DC” (JET Dispersion Control) This allows the treble to be adapted to particular room settings – especially for hall-like spaces with a lot of glass, wood floors, etc. The JET DC incorporates both a directional characteristic as well as a frequency response correction, so that instruments and voices can be pinpointed precisely - even in difficult room settings with many reverberant surfaces.



- Each FS 249 is equipped with 2 bass reflex tubes. One radiates sound toward the back, one downward onto the base plate. This arrangement allows for deeper bass tuning and can also be used as an acoustic low-pass filter. The rear projection bass reflex tube comes closed off with a bass control plug . By removing it, the bass reproduction can be intensified.

- The FS 249's beautifully built cabinet features massive internal bracing to minimise resonances.

- High-quality ELAC bi-wiring terminals are used with separate connections for bass and middle/treble drivers. The angled adapter terminations are easily accessible and are especially suitable for larger cables (16 mm²) and high-quality spade terminals (e.g. WBT products).



- The FS 249 is equipped with an elegant base plate and easily adjustable ELAC spikes/rubber feet. For acoustic reasons, since one of the bass reflex openings radiates sound downwards, the base plate must be securely fitted before use.

Finishes: Mocha, Cherry Veneer, Black High Gloss

Specifications ELAC FS 249

Dimensions			
Height (with/without base plate/spikes)	1060/1118/1147		
Width (with/without base plate)	200/260		
Depth (with/without frame/base plate)	308/323/368 mm	Crossover Frequency	500/3200 Hz
Weight	31 kg	Nominal Power handling	200 W
Type	3-way, bass reflex	Peak Power Handling	250 W
Woofer	2 x 180 mm AS-XR cone	Frequency Range	28 - 50000 Hz
Midrange	140 mm AS-XR cone	Sensitivity	89 dB/2.8V/m
Tweeter	JET III (?)	Nominal impedance	4 ohms
Rec. Amplifier Power at nominal impedance	30 – 400 W / Channel	Minimum impedance	3.0 ohms at 120 Hz