

ELAC
FINEST GERMAN ENGINEERING

proudSpeaker

FS 509 VX-JET



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Even at first glance the new ELAC FS 509 VX-JET escapes the beaten tracks. Its true size is not only shown in the several small details, but this speaker even shows, what amazes the human ear.

Nearly invisible but acoustically tremendous, the most innovative feature presents itself: The ELAC VX-JET. Basis for this innovative driver is the famous ELAC X-JET driver, a combination of the well reputed JET tweeter coaxially surrounded by the midrange driver. The innovation of the VX-JET is the variably adjustable position of the driver, therefore the name VX-JET.



By means of an adjusting knob at the rear side of the speaker the whole VX-JET driver may be moved 8 mm out (in front of the baffle) or 8 mm in (behind the baffle). The idea behind is the fact that each room has its own acoustical behaviour and the same speaker produces different sounds in different rooms. The wish of “one speaker for all rooms” has

been a myth ... until today. Because now, it is possible to adapt the speaker to the room.

By varying the position of the VX-JET, the directivity pattern of the mid-/high-frequency range can be adjusted. The result is not a variation of the sound of the speaker but a variation of the ratio between direct and reflected sound at the listening position.

For the first time the VX-JET allows a constant spaciousness over a number of different rooms and listening distances. If there is too much reflected sound at the listening position (the result is an indifferent and diffuse sound), e.g. caused by room architecture with many acoustically hard surfaces (e.g. glass) or by a large distance between speaker and listening position, the positioning of the VX-JET behind the baffle will help. The ratio of the reflected sound which reaches the ear of the listener will be reduced. The result is a vivid reproduction allowing differentiated locating.

If on the other hand the ratio of reflected sound is too low, e.g. caused by a large quantity of sound absorbing objects in the room, or a very short distance between speaker and listening position, which reduces the impression of room and the feeling to be part of the action, it is a good idea to move the VX-JET out (in front of the baffle). Now the ratio of reflected sound at the listening position will be increased. The result is a spacious sound impression which is unlimited by the distance between the loudspeakers.





Nothing was left to chance to support the performance of the VX-JET in all aspects, so you can find even more innovations at the front baffle.

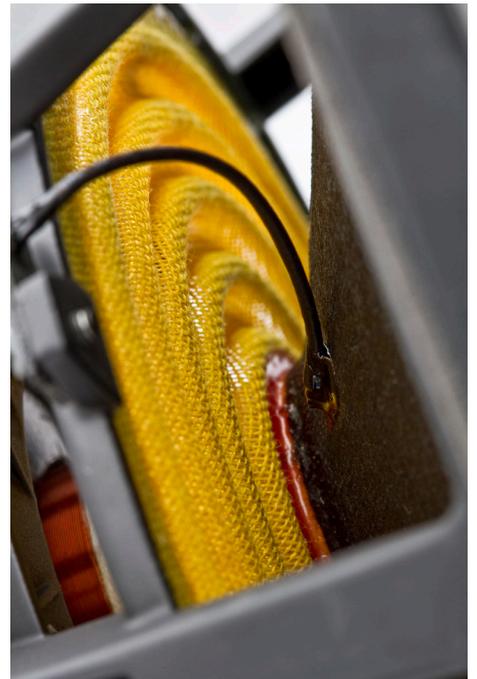
However the two new woofer drivers will catch your eyes. With a diameter of 220 mm the woofers not only let expect their performance. The symbiosis of crystal membrane technology and impressive drive system present a deep and absolutely precise bass reproduction, not depending on the selected volume.

A new woofer/mid-range driver, equipped with all the well known ELAC technologies including crystal membrane- and LLD technology completes the driver arrangement and guarantees that no detail of the recording gets lost.

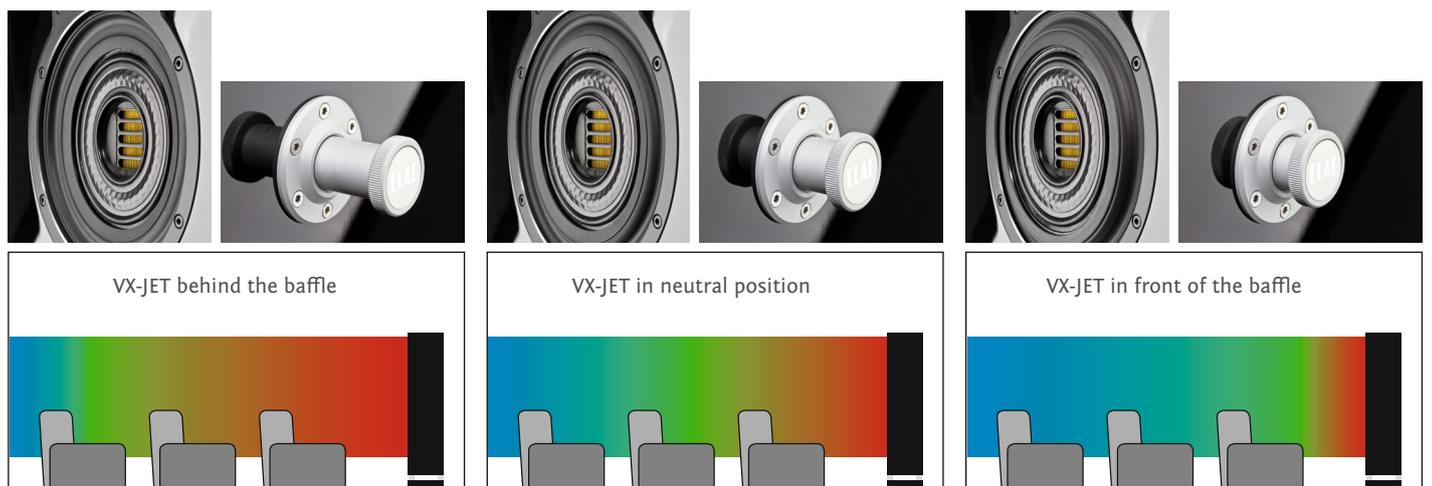
All speaker drivers are equipped with an aluminum die cast frame. Regarding the choice of the crossover components, even the last doubts will subside. High grade, sound neutral air coils and film capacitors manage the assignment of the different frequency bands and guarantee a maximum sound transparency.

As a result the FS 509 VX-JET presents a sovereignty in reproducing sound of each superior music material. Doesn't matter if Fortissimo or Pianissimo ... the verve rises with every single beat and exceeds all expectations.

Why all these innovations?
Because music wants to be lived and this shouldn't be lost.



Coloured areas in the graphic:
RED: dominant direct sound
GREEN: natural balance between direct and reflected sound
BLUE: dominant reflected sound



Technical Data of ELAC FS 509 VX-JET

Height without / with spikes	1,330 / 1,373 mm
Width without / with base plate	250 / 330 mm
Depth without / with grille / with adjusting knob	400 / 426 / 466 mm
Weight	ca. 50 kg
Type	4-way, bassreflex
Woofer Bass reflex port	2 x 220 mm Ø, AS-XR, cone 1 x 100 mm Ø
Mid/Low driver	1 x 180 mm Ø, AS-XR, cone, LLD
Midrange	1 x 50 mm / 105 mmØ, AS-XR, honeycomb ring radiator
Tweeter	JET III
Crossover frequency	120 / 600 / 2,800 Hz
Nominal power handling	280 W
Peak power handling	359 W
Frequency range (IEC 268-5)	24 bis 50,000 Hz
Frequency response +/-3 dB	45 - 40,000 Hz
Lower critical frequency -6 dB	36 Hz
Efficiency	86 dB/W/m
Sensitivity Maximum sound pressure	89 dB / 2.83 V/m 110.5 dB/1m
Suitable for amplifiers from ... to	4 - 8 Ω
Nominal impedance	4 Ω
Minimum impedance	3.1 / 75 Ω/Hz
Recommended amplifier power	80 - 600 W/Channel
Finish	Black High Gloss



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