

Axiom

The Electric Guitar Sound

The design of loudspeakers for the electric guitar is a distinct art. Unlike those engineered for most other applications, the guitar loudspeaker is not required simply to reproduce sound, but is itself part of the sound-producing mechanism. The characteristics of the speaker play an active and significant role in determining the tonal qualities and the power and attack of both the player and the instrument.

The best musical instrument loudspeaker must therefore incorporate the highest possible electro-acoustic conversion efficiency and must be precisely contoured in terms of frequency response and transient capability to suit the type of instrument and application and to align with required tonal characteristics in guitar sound. Fane audio design engineers have for many decades monitored the musical world through constant contact with professional artists worldwide, ensuring that the requirements of the modern professional can be translated into acoustic reality through Fane professional instrument loudspeakers. Vintage manufacturers such as Carlsbro, Custom Sound, HiWatt, Jennings, Laney, Orange, Sound City, Studiomaster, Trace Elliot, Vox and W.E.M., and many others, could all testify to the accuracy of these claims. Consequently, our **AXIOM Guitar Series** represents an expanded range of precision-designed, superbly engineered, high-powered musical instrument loudspeakers, each model individually and painstakingly researched and developed by professionals for professionals, to provide ultimate performance and ultimate satisfaction, for artist and audience alike.

The Alnico Magnet Loudspeaker

Much of the unique sound of the legendary guitarists of the sixties Rock scene originated from the now long-extinct cobalt magnet speaker with its fragile paper voice-coil, which gave a near-ideal mix of tonal nuance and overdrive harmonics. Rising material costs and the demand for higher power units saw the permanent demise from the music scene of these revered relics of a fabulous decade in music legend. Since then, despite many attempts, few really successful replacements have been produced. However, new design technology allied with field trials by leading and respected guitarists has produced a speaker which faithfully recreates, with power and economy, the subtle tonal colours and overdrive characteristics of the most sought-after guitar sounds of all time. Two models now feature prominently in Fane's **AXIOM Guitar Series**, each sporting the distinctive vintage steel magnet cover.



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AXA-10

Nominal Chassis Diameter	10 inch/254 mm
Power Handling (A.E.S.)	100 W
Frequency Response	75 Hz-6 kHz
Sensitivity (in above range) 1 W/1 m	100 dB
Magnet Weight	Alnico 34 oz.
Voice Coil	1.75 inch
Suggested Applications	2 x 10, Combos
Resonant Frequency fs	90 Hz
D.C Resistance Re	6.4 Ω
Total Q Qts	0.52
Electromagnetic Q Qes	0.58
Mechanical Q Qms	4.68
Mms (grams)	31
Cms (microns per Newton)	1
BL Product	19.4 Tesla metres
Compliance Eq.Volume - Vas	18 litres
Peak Diaph. Disp. - Vd	0.32 litres

AXA-12

Nominal Chassis Diameter	12 inch/304.8 mm
Power Handling (A.E.S.)	100 W
Frequency Response	70 Hz-5.5 kHz
Sensitivity (in above range) 1 W/1 m	101 dB
Magnet Weight	Alnico 34 oz.
Voice Coil	1.75 inch
Suggested Applications	2 & 4 x 12, Vintage Valve
Resonant Frequency fs	85 Hz
D.C Resistance Re	6.5 Ω
Total Q Qts	0.65
Electromagnetic Q Qes	0.75
Mechanical Q Qms	4.87
Mms (grams)	53
Cms (microns per Newton)	0.7
BL Product	24.2 Tesla metres
Compliance Eq.Volume - Vas	25 litres
Peak Diaph. Disp. - Vd	0.48 litres

AX15-300B

Nominal Chassis Diameter	15 inch/381 mm
Power Handling (A.E.S.)	300 W
Frequency Response	40 Hz-6.5 kHz
Sensitivity (in above range) 1 W/1 m	100 dB
Magnet Weight	Ferrite 84 oz.
Voice Coil	3 inch
Suggested Applications	1 x 15, Bass
Resonant Frequency fs	49 Hz
D.C Resistance Re	6.5 Ω
Total Q Qts	0.35
Electromagnetic Q Qes	0.37
Mechanical Q Qms	7.37
Mms (grams)	95
Cms (microns per Newton)	1
BL Product	20.2 Tesla metres
Compliance Eq.Volume - Vas	110 litres
Peak Diaph. Disp. - Vd	0.78 litres