

The Exotic F8 is a full range 8-inch driver designed for smooth, wide frequency response, high sensitivity, and low distortion.

The special paper cone is embedded with papyrus fibers to optimize stiffness and damping. An optimally matched whizzer cone extends high frequency response beyond 10kHz.

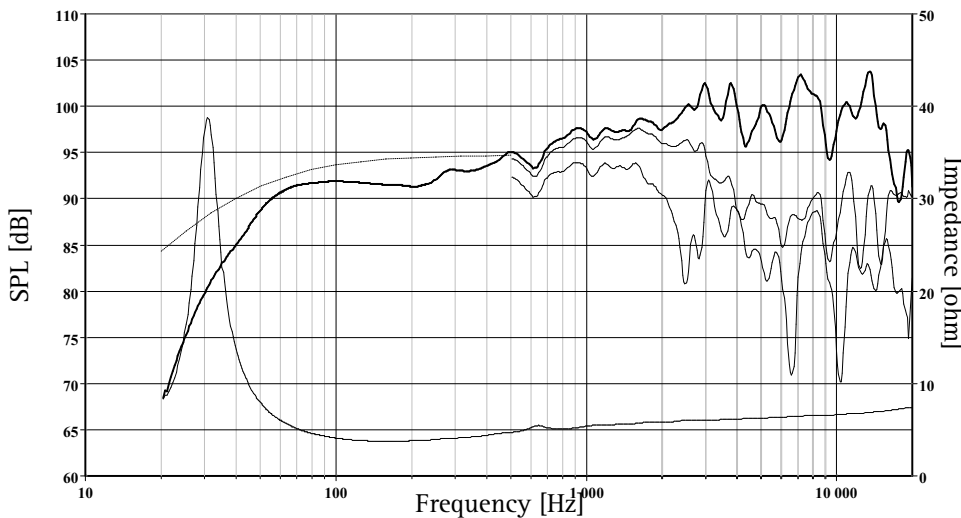
A special foam rubber surround reduces mass by 40% compared with conventional rubber surrounds, resulting in higher sensitivity and excellent damping properties.

A totally new and proprietary spider design dramatically improves the performance of this critical suspension part. By combining an extremely open weave with a new resin formulation, all noises normally created by the friction of the threads rubbing together are virtually eliminated. Additionally, the open weave is highly acoustically transparent, minimizing the reflections and resonances associated with conventional spider designs.

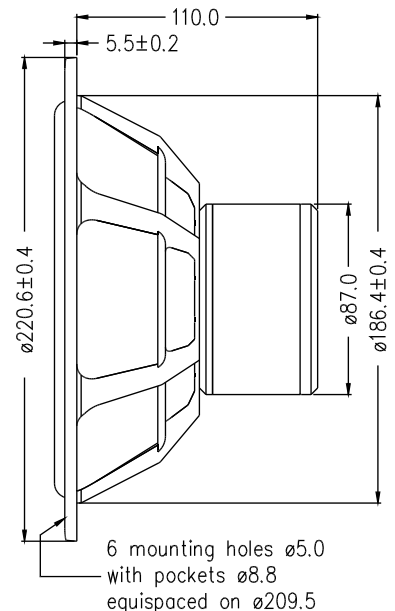
A high temperature copper voice coil is wound on a rigid, non-conductive glass fibre former.

The magnet system uses an Alnico V ring magnet for high sensitivity, excellent stability, and low distortion. A copper cap on the pole piece, combined with an under hung voice coil reduces non-linear distortion to a minimum.

New H2 lead-out wires eliminate noise due to roping and resonances.



The frequency responses above show measured free field sound pressure in 0, 30, and 60 degrees angle using a 60L closed box. Input 2.83 V_{RMS}, microphone distance 0.5m, normalized to SPL 1m. The dotted line is a calculated response in infinite baffle based on the parameters given for this specific driver. The impedance is measured in free air without baffle using a 2V sine signal.



Nominal Impedance	4 Ohms	Voice Coil Resistance	3.0 Ohms
Recommended Frequency Range	30 - 20000 Hz	Voice Coil Inductance	0.05 mH
Short Term Power Handling *	100 W	Force Factor	4.2 N/A
Long Term Power Handling *	35 W	Free Air Resonance	31 Hz
Characteristic Sensitivity (2,83V, 1m)	96.0 dB	Moving Mass	10.5 g
Voice Coil Diameter	26 mm	Air Load Mass In IEC Baffle	1.92 g
Voice Coil Height	7.8 mm	Suspension Compliance	2.5 mm/N
Air Gap Height	12 mm	Suspension Mechanical Resistance	0.57 Ns/m
Linear Coil Travel (p-p)	4.2 mm	Effective Piston Area	222 cm ²
Maximum Coil Travel (p-p)	14 mm	VAS	146 Litres
Magnetic Gap Flux Density	0.8 T	QMS	4.24
Magnet Weight	0.8 kg	QES	0.43
Total Weight	2.6 kg	QTS	0.39