
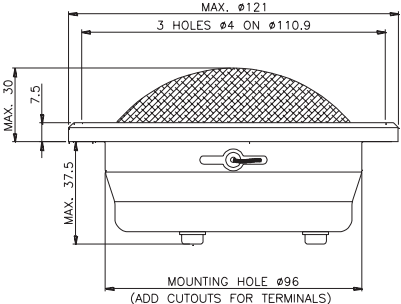


Similar to the MD 102 tweeter in principle, the new Esotec MD 142 is a 75mm (3-inch) diameter soft dome midrange design intended for high performance three- and four-way audio systems.

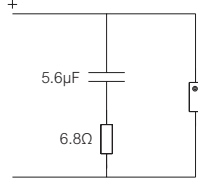
As typical of all Dynaudio tweeters and soft-dome midrange units, the MD 142 features a large diameter aluminum voice coil with a centered magnet housed in a relatively compact and shallow enclosure. Suspended in ferrofluid for controlled damping, an extremely light aluminium voice coil drives the dome. Aluminium has proven to be an ideal material for Dynaudio's oversized voice coils due to its extremely low mass, which in turn allows a larger coil diameter and more windings as compared to conventional designs. The heat produced by the voice coil is dissipated to the magnet system with the help of ferrofluid cooling liquid. The precisely optimized dome geometry and the low mass of the internal moving parts ensure a very transparent and detailed reproduction of all frequencies. In most dome driver designs, the surround of the driver and the outer edge of the driver membrane are moving in opposite phase and canceling each other's output at various frequencies. Dynaudio has undertaken extensive research into the shaping of these parts to ensure that the long linear excursions essential to high output levels are maintained without this type of interference.


The Esotec MD 142 is housed in a compact self-contained enclosure with a vented pole piece and damped rear chamber. It includes an integrated protective grille, and requires no additional airspace for installation. It thus may easily be integrated into a wide range of install applications and locations, including kick-panel, in-dash, in-door or rear deck mount placement. In tandem with the incredibly powerful Neodymium magnet, the sound reproduced by the MD 142 is smooth, detailed, dynamic and simply amazing.

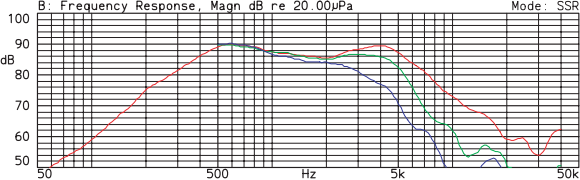


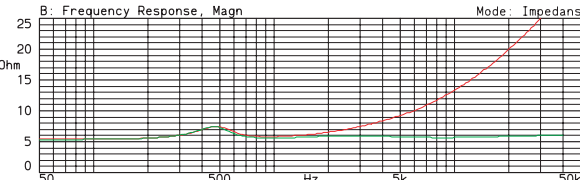


Thiele Small Parameters		
Nominal impedance	Znom	8 Ω
DC resistance	Re	5.3 Ω
Voice coil inductance	Le	- mH
Resonance frequency	fs	475 Hz
Mechanical Q factor	Qms	-
Electrical Q factor	Qes	-
Total Q factor	Qts	-
Mechanical resistance	Rms	- kg/s
Moving mass (incl. air load)	Mms	- g
Suspension compliance	Cms	- mm/N
Effective dome diameter	d	- mm
Effective piston area	Sd	52 cm²
Equivalent volume	Vas	- l
Force factor	BL	- Tm
Recommended frequency range		700–6000 Hz
Magnet and Voice Coil Properties		
Voice coil diameter	dc	75 mm
Voice coil height	hc	5.5 mm
Linear excursion, peak to peak		2.5 mm
Max. excursion, peak to peak		5 mm
Power Handling		
Nominal long term IEC		100 W
Transient (10 ms)		1000 W
Mechanical Properties		
Net weight		0.75 kg
Overall dimension		Ø 121 x 66 mm









SPL

Red line: on-axis response
Green line: 30° horizontal
Blue line: 60° horizontal

Measurement conditions:
Level: 2.83 V
Distance: 1 m
Measured in a large baffle

Impedance
(with and without impedance correction circuit)

Red line: impedance, free air
Green line: impedance, free air with compensation.

Measurement conditions:
Level: 3.16 V, 50 ohm
Driver in free air

Facts

- Coated textile dome
- Large 75 mm voice coil ensures high power handling and low compression
- Internal magnet structure with vented pole piece
- Aluminium voice coil wire results in a low moving mass
- Shallow mounting depth
- Integrated protective grille
- Ferrofluid adds damping and increases power handling