

Woofer Esotar² 430

The Esotar² 430 is a midrange designed for 2-way or 3-way systems. It delivers an impressive clarity and natural reproduction in almost any application.

The driver exhibits a very linear frequency response and a good dispersion from 200Hz and up to 7kHz, even 60 degrees off-axis. This, combined with the low distortion and the linear impedance, makes it possible to achieve excellent results.

The driver is a simple load for the amplifier and the use of an impedance correction circuit will make it even simpler. The low suspension compliance makes the driver suitable for small enclosures normally used in cars.

- Diaphragm and dust cap moulded as one piece
- Internal double magnet system with vented pole piece
 Magnetsystem with neodymium magnet and vented
- pole piece
 Aluminium voice coil wire provides for a low moving mass, wound on aluminium former
- Rigid die-cast chassis with aerodynamically shaped ribs
- Materials and parameters are optimized for the harsh environmental conditions in a car
- Smooth high-frequency roll-off
- Natural midrange reproduction

	Ø110 mm
12 mm	6 holes Ø4mm on Ø101mm
4mm	
42 mm	
	🛥 90 mm 🗕

Thiele Small Parameters							
Nominal impedance	Znom	4	Ω				
DC resistance	Re	4	Ω				
Voice coil inductance	Le	0,19	mН				
Resonance frequency	Fs	64	Hz				
Mechanical Q factor	Qms	1,5					
Electrical Q factor	Qes	0,21					
Total Q factor	Qts	0,18					
Mechanical resistance	Rms	1,3	kg/s				
Moving mass (incl. air load)	Mms	4,9	g				
Suspension compliance	Cms	1,2	mm/N				
Effective cone diameter	D	75	mm				
Effective piston area	Sd	45	cm ²				
Equivalent volume	Vas	3,5					
Force factor	BI	6,2	Tm				
Recommended frequency range	2	00-7000	Hz				
Recommended closed box volume		0,5-4					

Magnet and Voice Coil Properties					
Voice coil diameter	dc	34 mm			
Voice coil height	hc	9,5 mm			
Voice coil layers	nc	2			
Magnetic gap height	hg	5 mm			
Linear excursion, peak to peak		4,9 mm			
Max. excursion, peak to peak		21 mm			
Magnet weight:					
Neodymium	wm	0.1 ka			

Power Handling						
Nominal long term IEC	150 W					
Nominal long term IEC, with 250Hz high pass filter	200 W					
Transient (10 ms)	1000 W					

Mechanical Properties						
Net weight	0,47	kg				
Overall dimension	Ø110x49	mm				

All specifications subject to change without notice

Dynaudio A/S, 8660 Skanderborg, Denmark

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

Measurement conditions Level: 2.83 V Distance: 1 m Box volume: 4 I



Red line: on-axis response Green line: 2nd harmonic Blue line: 3rd harmonic

<u>Measurement conditions</u> Level: 2.83 V Distance: 1 m Box volume: 4 I

Impedance • with and without impedance correction circuit



Red line: impedance, free air green line: impedance, free air with compensation. See drawing below.

Measurement conditions Level: 3,16 V, 50 ohm Driver in free air

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Impedance correction circuit



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