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ceramic drivers - carefully made in Germany by Thiel & Partner GmbH, D-50259 Pulheim

ACCUTON C²44-8

item number: #C44-A8/30/4.5/1-3F72/15-T390



ferrofluid filled midrange with 50 mm light weight concave ceramic dome. Perfect choice for 3-way or 4-way systems as high-midrange driver. Very high resolution and very good dispersion up to 15 kHz. Low resonance frequency allows first order filtering and a crossover frequency as low as 800 Hz.

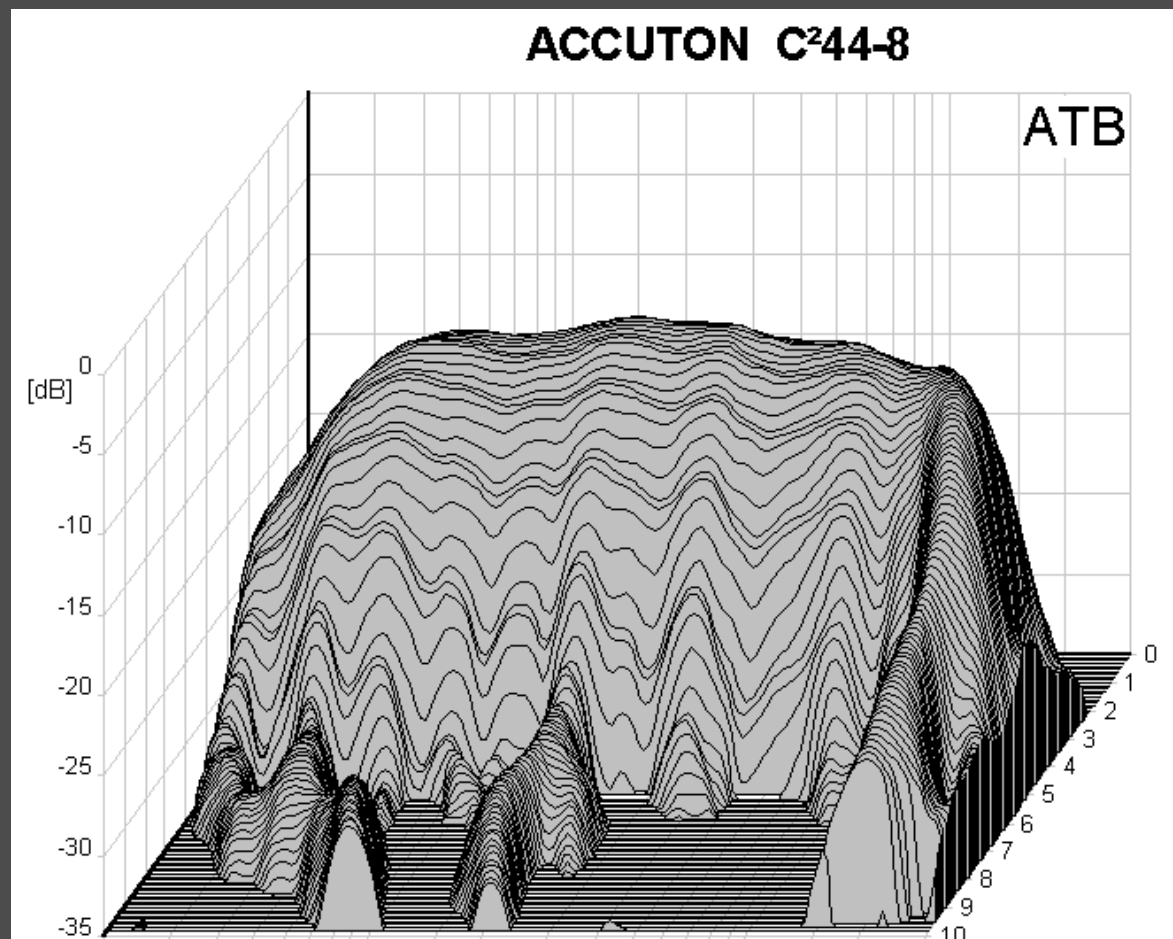
The ultra hard ceramic dome material moves like a piston well above the audible frequency band and the high internal sound velocity features very low distortion and virtually no coloration.



recommended frequency range: 800 Hz - 15 kHz

Thiele/Small Parameters:			
Sensitivity	E	88.5	dB
DC-resistance	R	8.2	Ohm
resonance frequency	fres	390	Hz
Equivalent volume of air	Vas	0.11	l
mechanical Q	Qms	1.19	
electrical Q	Qes	2.2	
total Q	Qts	0.77	
effective piston area	S	24.6	cm ²
moving mass	Mms	1.3	g
Suspension Compliance	Cms	0.13	mm/N
mechanical restance	Rms	2.72	kg/s ⁻¹

Voice coil / Magnet Data:			
Power Handling, filtered	P	120	Watt
Voice coil diameter	D	30.4	mm
Voice coil former		Al	
Voice coil height	h	4.5	mm
Number of layers		1	
Voice coil inductance	Lbm	0.06	mH
pole plate thickness		3.0	mm
linear excursion	Xmax	±0.8	mm
Flux density	B	1.2	T
Force factor	BL	3.47	NA ⁻¹
Ferrofluid filling		yes	



200 500 1k 2k 5k 10k 20k [Hz]

Spectral decay (waterfall) plot with Z-axis in periods. Signal is 6 Volt cosine burst with a length of 5 periods.
Some irregularities at 1.8 - 3 kHz due to reflections in the measuring room

Mechanical Dimensions:		
Outer Dimensions	106 x 106	mm
Cutout Dimensions	89 x 89	mm
Frontplate Thickness	6,5	mm
Overall Depth	67	mm
Mounting hole diam.	5.0	mm
Mounting hole distance	92 x 92	mm
Frontplate corner radius	7.0	mm
Cutout hole corner radius	24.5	mm

Shipping information:		
net weight / piece	680	g
gross weight / pair	1550	g
box size / pair	29 x 9.5 x 14	cm
quantity shipping unit	18	pcs
weight shipping unit	15.5	kg
size shipping unit	45 x 30 x 31	cm
shipping box	carton	

Click below for more technical information of this driver:

[» C²44-8 ATB K₂ and K₃ distortion measurements - HTML-22 KByte](#)

opens next window with ATB measurements of K₂ and K₃ distortion.
Measurements made by Bernhard Thiel with IEC norm baffle.

[» C²44-8 MLSSA measurements - HTML-24 KByte](#)

opens next window with MLSSA measurements made in box by Dipl.Ing. Bernd Timmermanns, former chief editor of "Klang & Ton", now chief editor of "Hobby Hifi", the German speaker builder magazine. Measurements include amplitude (SPL), impedance, step response and spectral decay plot (waterfall diagram).

[» C²44-8 ATB measurements - PDF-18 KByte](#)

opens a PDF file with ATB measurements of amplitude, on axis and 30 degrees, impedance, step response, K₂ and K₃ distortion. Measurements made by Bernhard Thiel with IEC norm baffle. You will need Adobe Acrobat Reader 4.0 to view this file.

[» C²44-8 technical drawing - PDF-42 KByte](#)

opens a PDF file with technical drawing of this driver. You will need Adobe Acrobat Reader 4.0 to view this file.

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