

ALTO III c

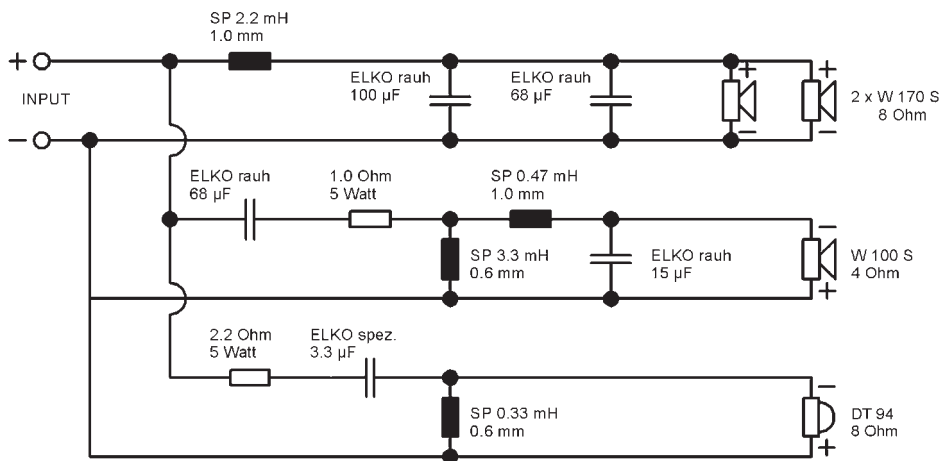


Characteristics and sound properties

The ALTO III c has been designed as a 3-way column speaker with an inside volume of no less than 55 litres. The twin bass arrangement using two W 170 S 8 Ohm drivers in parallel guarantees very powerful low-ranging bass reproduction, that comes across crisply and impressively even with hard-hitting beat.

From around 450 Hz upwards, the 10 cm mid-range cone W 100 S 4 Ohm takes over, mounted in its 3 litre enclosure. Single instruments and solo voices are reproduced throughout the mid-range in a most tangible, crisp fashion, where the precise definition of virtual sound sources and their associated range layering, so typical for good mid-range cones, comes across well.

Above about 3500 Hz, the sound character is rounded off neatly by the crisp 19 mm tweeter DT 94 8 Ohm. The exuberance demonstrated by the ALTO III c promises to put listeners in a good mood and keep them there for several hours of musical pleasure.



Technical Data:

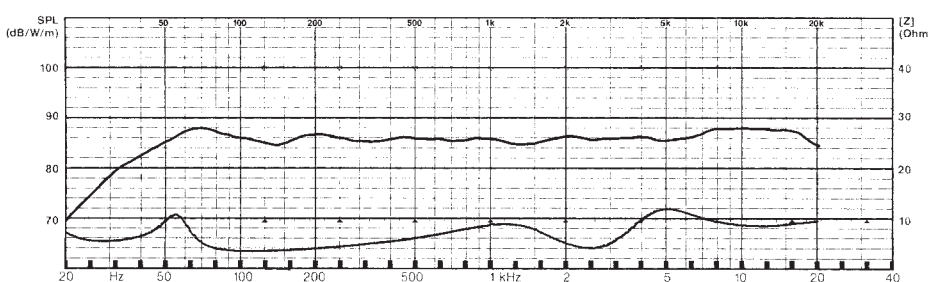
Nominal power handling:	100 Watt
Peak power handling:	180 Watt
Nominal impedance:	4 Ω
Frequency response:	35 – 22.000 Hz
Mean sound pressure (nominal) (1 W/1 m):	86 dB
Cut-off frequency:	450 Hz, 3500 Hz

Principle of Housing: Bassreflex

Net volume: 44 l and 3 l

Outer dimension:

height:	1000 mm
width:	230 mm
depth:	300 mm



Component parts list for 1 box:

Tweeter:	DT 94	8 Ω	1 piece
Midrange driver:	W 100 S	4 Ω	1 piece
Woofer:	W 170 S	8 Ω	2 pieces
Crossover:	„Alto III c“,		
Bass reflex tube:	BR 15.34	(full length)	1 piece
Terminal:	ST 77		1 piece
Damping material:			4 bag
Wood screws:			
3,5 x 19 mm			3 pieces
Countersunk screws:			
3,5 x 25 mm			19 pieces
Cable:			
2 x 1,5 mm ²			3,5 m

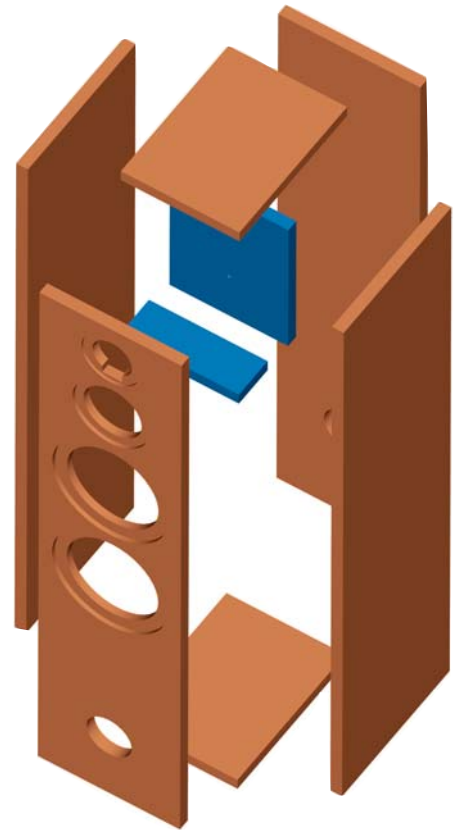
Accessories:

Protective grille:			
NG 4" (für W 100 S)			1 piece
NG 6,5" (für W 170 S)			2 pieces

Cabinet parts list for 1 box

Material: 19 mm chipboard or MDF

Parts	Size (mm)	Quantity
Top and bottom panel	192 x 262	2
Side panel	262 x 1000	2
Front panel	230 x 1000	1
Rear panel	230 x 1000	1
Midrange rear panel	192 x 250	1
Midrange bottom	192 x 70	1



Building instructions

The cabinet consists of boards stuck together (butt jointed), making construction a simple matter. The two boards for the closed mid-range compartment are fitted inside the cabinet before the last side panel is glued in place. Before this, an 8 mm hole has to be drilled in the rear panel of the mid-range enclosure for the connection leads. The crossover unit is mounted on the rear panel behind the upper bass cut-out.

Inner damping

The damping of the speaker uses eight mats of damping material pushed into the cabinet. To this end, the mats are folded once longways and once crossways and pushed into the cabinet in such a way that the space behind the bass tubes remains free and the rest of the space inside the cabinet is loosely filled.

