# The 24C loudspeaker





## 24C loudspeaker

The 24C is a passive 2-way column loudspeaker housing six 4" neodymium drivers and an HF array comprising six 1.1" dome tweeters.

The 4" drivers are arranged in a unique cardioid setup radiating through waveguide elements at the front and damped ports at the rear of the cabinet.

This design provides a constant directivity pattern of 90  $^\circ$  in the horizontal plane with an average broadbad attenuation to the rear of approx. 18 dB.

In the vertical plane, the beam produced by the low-mid drivers is tilted downwards by  $-5^{\circ}$  and provides significant directivity down to 370 Hz.

The HF array has a nominal vertical dispersion of 20° and its main axis can be adjusted continuously between 0° and -14° (when using ArrayCalc, adjustment in 1° increments).

The loudspeaker cabinet is based on an extruded aluminum profile with a metal grill protecting the front of the loudspeaker.

## d&b amplifiers

The d&b audiotechnik loudspeaker range is designed exclusively for operation with d&b amplifiers. These provide power as well as comprehensive control and protection functions tailored to achieve the performance, reliability and longevity associated with the d&b system approach.

#### System data

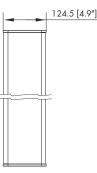
Frequency response (-5 dB standard) 110 Hz - 17 kHz
Frequency response (-5 dB CUT mode) 150 Hz - 17 kHz
Max. sound pressure (1 m, free field)
24C with 10D/30D/40D/D6/D12/D20/D40/D80 126 dB
(SPLmax peak, pink noise test signal with crest factor of 4)

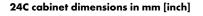
## Loudspeaker data

	12 ohms
tity (RMS/peak 10 ms)	125/600 W
ngle (h x v)	
mid beam	5°
HF array	0° to -14°
6 x 4″ driver w	vith neodymium magnet
1" dome tweeter mounte	ed in vertical horn array
Pa	ssive crossover network
4-pin Phoenix Eur	oblock and 1 x NL4 M
Phoenix plug type	: MSTB 2,5/ 2-ST-5,08
Phoenix	: 1: + / 2: - (3/4: n.c.)
	NL4 M: 1+/1-
Extruded aluminum, me	
	9 kg (19.8 lb)
Dual-rail 8 mm	T-slot profile at the rear
	ity (RMS/peak 10 ms) mgle (h x v) mid beam HF array 6 x 4" driver w 1" dome tweeter mounte Pa 4-pin Phoenix Eur Phoenix plug type Phoenix



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## **Architectural specifications**

The 2-way passive column loudspeaker shall consist of six 4" neodymium drivers and an HF array comprising six 1.1" dome tweeters.

In the vertical plane, the beam produced by the low-mid drivers shall be tilted downwards by -5° and shall provide directivity pattern control down to 370 Hz.

The loudspeaker shall be extendable by a dedicated extender unit to allow the vertical dispersion control to be extended downwards by another octave to 190 Hz.

The HF array shall have a nominal vertical dispersion of 20° and its main axis shall be adjustable continuously between 0° and -14°. The 4" drivers shall be arranged in a unique cardioid setup radiating through waveguide elements at the front and damped ports at the rear of the cabinet and shall provide a constant directivity pattern of 90° in the horizontal plane with a broadband attenuation to the rear of the column of, on average, approx. 18 dB.

The loudspeaker cabinet shall be based on an extruded aluminum profile with a metal grill protecting the front of the loudspeaker. Two continuous rails (8 mm T-slot profiles) shall be provided at the rear for attaching a wall mount bracket.

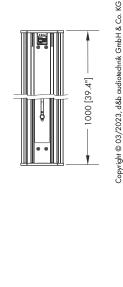
The connection panel on the back shall be recessed and fitted with a 4-pin Phoenix Euroblock terminal and shall allow a cross-section of up to 4 qmm / AWG 11.

In addition a NL4 M connetor socket shall be provided. The power handling capacity shall be 125 W RMS and 600 W peak (10 ms).

The frequency response ( -5dB) measured on axis shall be 110 Hz to 17 kHz with a maximum sound pressure of at least 126 dB. The dimensions (W x H x D) shall not exceed 125 x 1000 x 124 mm (4.9" x 39.4" x 4.9") and the loudspeaker shall weigh no more than 9 kg (19.8 lb).

The loudspeaker shall be the 24C by: d&b audiotechnik GmbH & Co. KG.





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