

The 27A-SUB loudspeaker



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The 27A-SUB is a compact high performance cardioid subwoofer for use with d&b xA-Series loudspeakers. The cabinet houses two long excursion neodymium drivers in an integrated cardioid setup: a 15" driver in a bass-reflex design facing to the front and a 12" driver in a two chamber bandpass design radiating to the rear. The arrangement and tuning provide a cardioid dispersion pattern using a single amplifier channel.

The frequency response extends from 40 Hz to 100/140 Hz.

The enclosure is constructed from marine plywood with an impact resistant black paint finish. The front of the cabinet is protected by a rigid metal grill backed by an acoustically transparent foam and is Ball Impact Resistant according to DIN 18032-3.

The cabinet is equipped with an integrated rigging system for the design of vertical arrays. The 27A-SUB can be combined with 10A and 10AL loudspeakers.

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.

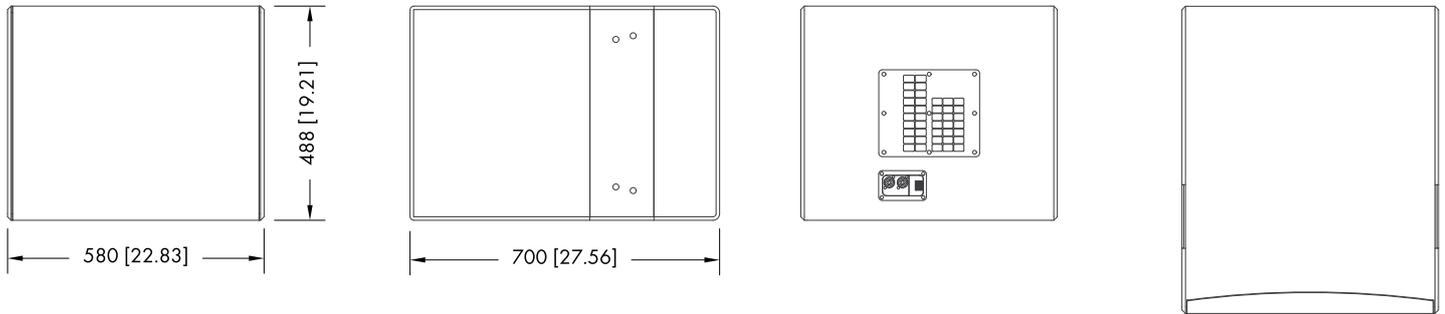
System data

Frequency response (-5 dB standard)	40 Hz - 140 Hz
Frequency response (-5 dB 100 Hz mode)	40 Hz - 100 Hz
Max. sound pressure (single cabinet, 1 m, free field)	
with 10D/D6	128 dB
with 30D/40D/D12/D20/D40/D80	131 dB
	(SPLmax peak, pink noise test signal with crest factor of 4)

Loudspeaker data

Nominal impedance	6 ohms
Power handling capacity (RMS/peak 10 ms)	500/2000 W
Components	1 x 15" driver
	1 x 12" driver
Connections	2 x NL4
	1 x screw terminal (ST - up to 4 mm ² /AWG 11)
	WR option: Faston type connector (2 x 6.3 mm)
Pin assignment	NL4: 2+/2-
	WR option: brown + / blue -
Weight	41 kg (90 lb)

The 27A-SUB loudspeaker



27A-SUB cabinet dimensions in mm [inch]

Architectural specifications

The loudspeaker shall be an integrated cardioid subwoofer consisting of a 15" driver in a bass-reflex design radiating to the front and a 12" driver in a two chamber bandpass design radiating to the rear, with both drivers to be powered by a single amplifier channel.

The enclosure shall be made from marine plywood with an impact resistant black paint finish. Special colours according to RAL table and a weather resistant option shall be available upon request.

The drivers shall be protected by a powder coated metal grill with an acoustically transparent foam.

The cabinet shall be Ball Impact Resistant according to DIN 18032-3 for schools and sports halls.

The cabinet shall be equipped with an integrated rigging system for the design of vertical arrays.

The connection panel on the back shall be recessed and fitted with two NL4 sockets and a two pole screw terminal block. A cover plate for protection of the connection panel shall be included.

The loudspeaker shall only be operated by a dedicated, compatible controller amplifier.

The power handling capacity shall be 500 W RMS and 2000 W peak (10 ms). The frequency response (-5 dB) measured on axis shall be 40 Hz to 140 Hz with a maximum sound pressure of at least 128 dB or 131 dB respectively when operated with one of its dedicated controller amplifiers. The dimensions (W x H x D) shall not exceed 580 x 488 x 700 mm (22.83" x 19.21" x 27.56") and shall weigh no more than 41 kg (90 lb).

The loudspeaker shall be the 27A-SUB by:
d&b audiotechnik GmbH & Co. KG.