The 27S subwoofer

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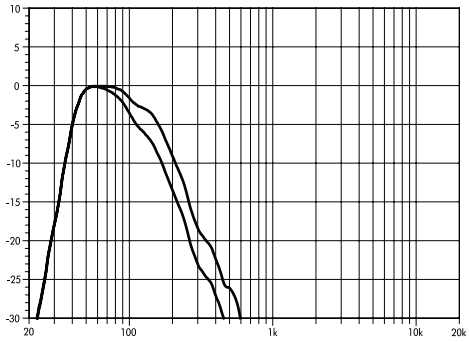
The 27S-SUB is a compact high performance cardioid subwoofer for use with the xS-Series and xA-Series loudspeakers. The cabinet houses two long excursion neodymium drivers in an integrated cardioid setup: a 15" driver in a bass-reflex design facing to the front and a 12" driver in a two chamber bandpass design radiating to the rear. The arrangement and tuning provide a cardioid dispersion pattern using a single amplifier channel. It can be used stand-alone, stacked or individually flown.
The enclosure is constructed from marine plywood with an impact resistant black paint finish and is Ball Impact Resistant according to DIN 18032-3 for schools and sports halls. The front of the loudspeaker cabinet is protected by a rigid metal grill backed by an acoustically transparent foam. The side panels incorporate a pair of M10 threaded inserts.

System data

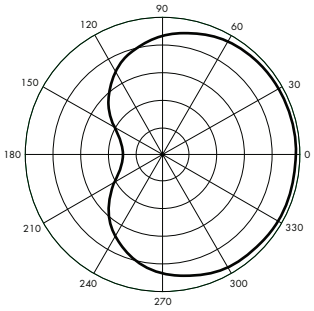
Frequency response (–5 dB standard).....40 Hz - 140 Hz
Frequency response (–5 dB 100 Hz mode).....40 Hz - 100 Hz
Max. sound pressure (single cabinet, 1 m, free field)[1] .....
with D6.....128 dB
with D12 .....131 dB

Loudspeaker data

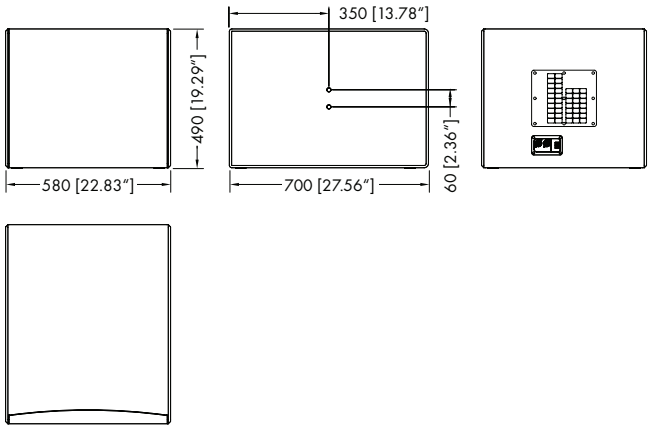
Nominal impedance.....6 ohms
Power handling capacity (RMS/peak 10 ms).....500 W/2000 W
Components..... 15" driver with neodymium magnet
..... 12" driver with neodymium magnet
Connections .....2 x NL4
..... screw terminal block
Pin assignments.....NL4: 2+/2–
Weight..... 41 kg (90 lb)



27S-SUB frequency response, standard and 100 Hz modes



Cardioid polar pattern



27S-SUB cabinet dimensions in mm (inch)

[1] Broadband measurement, pink noise, crest factor 4, peak measurement, linear weighting