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PROFESSIONAL LOUDSPEAKERS
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8BR40/N

LOW FREQUENCY TRANSDUCER

KEY FEATURES

- Power handling: 100 W program power
- Sensitivity: 91 dB (1W / 1m)
- 1" copper voice coil
- Rubber surround
- Ferrite magnet
- Die cast aluminum basket
- Flat response and low harmonic distortion
- Extended controlled displacement: X_{max} ± 6,7 mm
- 20 mm peak-to-peak excursion before damage





TECHNICAL SPECIFICATIONS

Nominal diameter	200 mm	8 in
Rated impedance		8 Ω
Minimum impedance		6,4 Ω
Power capacity [1]		50 W_{RMS}
Program power [2]		100 W
Sensitivity	91 dB	1W / 1m @ Z_N
Frequency range		30 - 6.000 Hz
Recom. enclosure vol.	20 / 60 l	0,7 / 2,1 ft^3
Voice coil diameter	25,4 mm	1 in
Bl factor		6,8 N/A
Moving mass		0,021 kg
Voice coil length		16 mm
Air gap height		6 mm
X_{damage} (peak to peak)		20 mm

THIELE-SMALL PARAMETERS [3]

Resonant frequency, f_s	30 Hz
D.C. Voice coil resistance, R_e	5,5 Ω
Mechanical Quality Factor, Q_{ms}	2,1
Electrical Quality Factor, Q_{es}	0,48
Total Quality Factor, Q_{ts}	0,39
Equivalent Air Volume to C_{ms}, V_{as}	89,1 l
Mechanical Compliance, C_{ms}	1300 μm / N
Mechanical Resistance, R_{ms}	2 kg / s
Efficiency, η_0	0,5 %
Effective Surface Area, S_d	0,022 m^2
Maximum Displacement, X_{max} [4]	6,7 mm
Displacement Volume, V_d	147 cm^3
Voice Coil Inductance, L_e	0,5 mH

Notes:

[1] The power capaticty is determined according to AES2-1984 (r2003) standard.

[2] Program power is defined as power capacity + 3 dB.

[3] T-S parameters are measured after an exercise period using a preconditioning power test. The measurements are carried out with a velocity-current laser transducer and will reflect the long term parameters (once the loudspeaker has been working for a short period of time).

[4] The X_{max} is calculated as $(L_{vc} - H_{ag})/2 + (H_{ag}/3,5)$, where L_{vc} is the voice coil length and H_{ag} is the air gap height.

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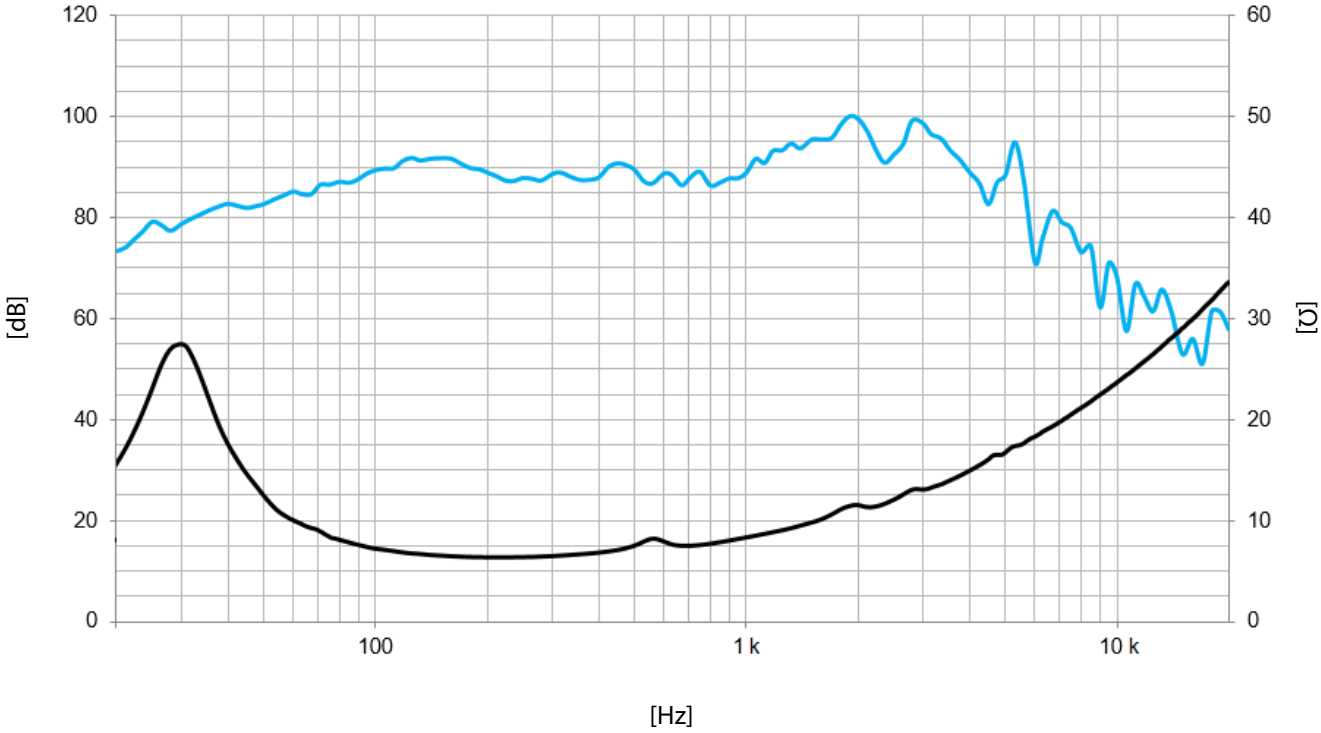
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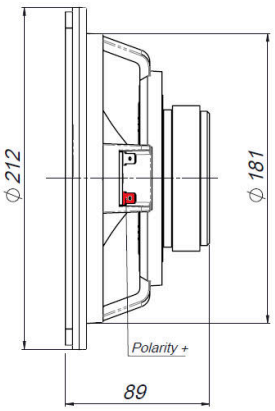


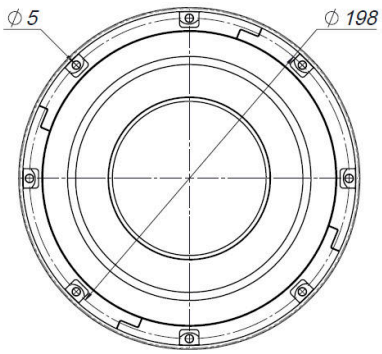
Note: Frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1W @ 1m

MOUNTING INFORMATION

Overall diameter	212 mm	8,3 in
Bolt circle diameter	198 mm	7,8 in
Baffle cutout diameter:		
- Front mount	181 mm	7,1 in
Depth	89 mm	3,5 in
Volume displaced by driver	1,5 l	0,05 ft³
Net weight	1,3 kg	2,9 lb
Shipping weight	1,5 kg	3,3 lb

DIMENSION DRAWING





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