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PROFESSIONAL LOUDSPEAKERS

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8P300Fe/N

LOW FREQUENCY TRANSDUCER

P200 Series

KEY FEATURES

- 600 W program power
- Sensitivity: 94 dB (1W / 1m)
- Extended controlled displacement: X_{max} ± 6 mm
- 24 mm peak-to-peak excursion before damage
- Copper shorting cap for low harmonic distortion
- CONEX spider
- Weatherproof carbon fiber loaded paper cone with Santoprene™ surround





TECHNICAL SPECIFICATIONS

Nominal diameter	200 mm	8 in
Rated impedance		8 Ω
Minimum impedance		6,7 Ω
Power capacity [1]		300 W_{AES}
Program power [2]		600 W
Sensitivity	94 dB	1W / 1m @ Z_N
Frequency range		60 - 7.000 Hz
Recom. enclosure		V_b = 16 l
(Bass-reflex design)		F_b = 71 Hz
Voice coil diameter	63,5 mm	2,5 in
Bl factor		11,6 N/A
Moving mass		0,025 kg
Voice coil length		15 mm
Air gap height		7 mm
X_{damage} (peak to peak)		24 mm

THIELE-SMALL PARAMETERS [3]

Resonant frequency, f_s	53 Hz
D.C. Voice coil resistance, R_e	5,2 Ω
Mechanical Quality Factor, Q_{ms}	14,3
Electrical Quality Factor, Q_{es}	0,32
Total Quality Factor, Q_{ts}	0,31
Equivalent Air Volume to C_{ms}, V_{as}	24,8 l
Mechanical Compliance, C_{ms}	362 μm / N
Mechanical Resistance, R_{ms}	0,58 kg / s
Efficiency, η_0	1,1 %
Effective Surface Area, S_d	0,022 m^2
Maximum Displacement, X_{max} [4]	6 mm
Displacement Volume, V_d	132 cm^3
Voice Coil Inductance, L_e	0,4 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.

Acústica Beyma SL - P.I. Moncada II, C/ Pont Sec, 1C - 46113 Moncada, Valencia (Spain) - Tel. +34 96 130 13 75 - beyma@beyma.com

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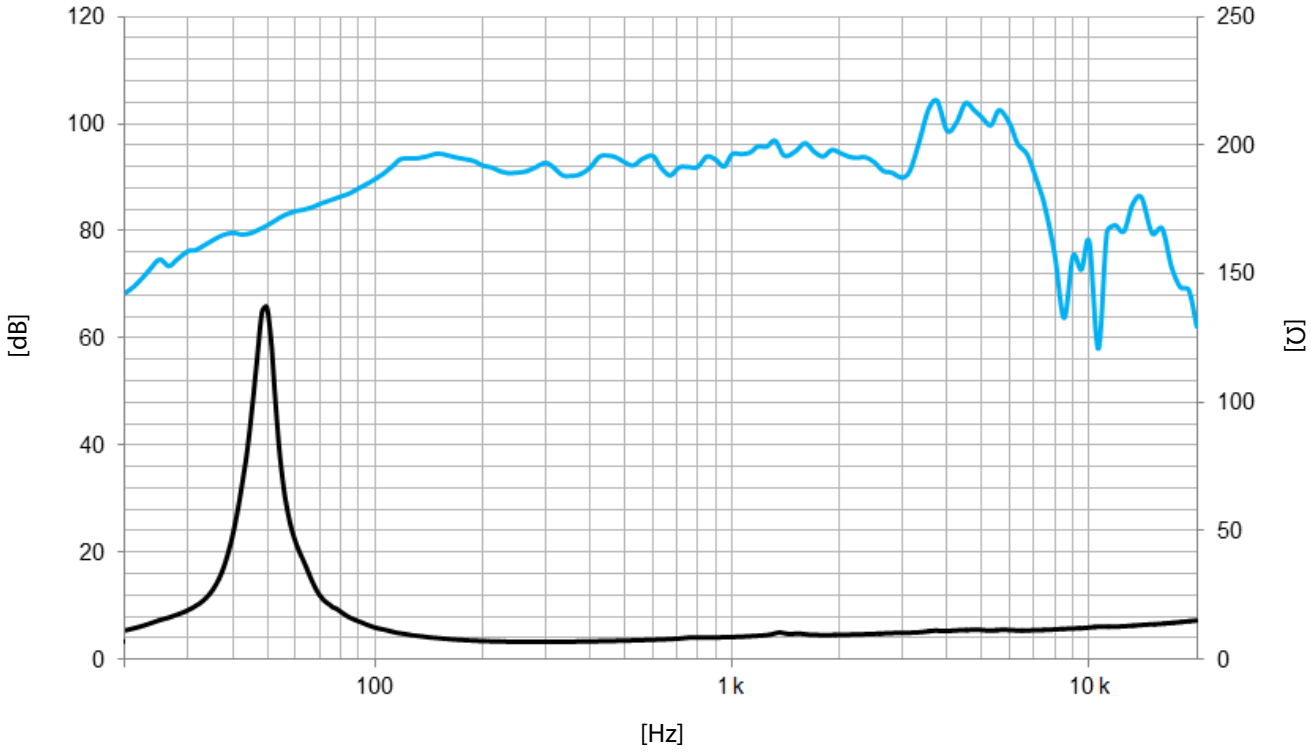
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Note: Frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1W @ 1m

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	97 mm	3,8 in
Net weight	4 kg	8,8 lb
Shipping weight	4,2 kg	9,4 lb

DIMENSION DRAWING

