

KEY FEATURES

- High sensitivity: 102 dB (1W / 1m)
- Power handling: 250 W_{AES}
- Double cone for an extended bandwidth coverage
- Special treated surround to obtain an extremely linear frequency response
- 2" aluminium voice coil
- Copper shorting cap for low harmonic distortion
- Designed for high quality full-range reproduction and music instruments reinforcement



TECHNICAL SPECIFICATIONS

Nominal diameter	300 mm	12 in
Rated impedance		8 Ω
Minimum impedance		6,8 Ω
Power capacity ¹		250 W _{AES}
Program power ²		500 W
Sensitivity	102 dB	1W / 1m @ Z _N
Frequency range		100 - 18.000 Hz
Voice coil diameter	50,8 mm	2 in
BI factor		10 N/A
Moving mass		0,034 kg
Voice coil length		9 mm
Air gap height		7 mm
X _{damage} (peak to peak)		24 mm

THIELE-SMALL PARAMETERS³

Resonant frequency, f _s	90 Hz
D.C. Voice coil resistance, R _e	6,2 Ω
Mechanical Quality Factor, Q _{ms}	14,8
Electrical Quality Factor, Q _{es}	1,26
Total Quality Factor, Q _{ts}	1,16
Equivalent Air Volume to C _{ms} , V _{as}	34 l
Mechanical Compliance, C _{ms}	87 μm / N
Mechanical Resistance, R _{ms}	1,3 kg / s
Efficiency, η ₀	2,1 %
Effective Surface Area, S _d	0,053 m ²
Maximum Displacement, X _{max} ⁴	3 mm
Displacement Volume, V _d	159 cm ³
Voice Coil Inductance, L _e	0,6 mH

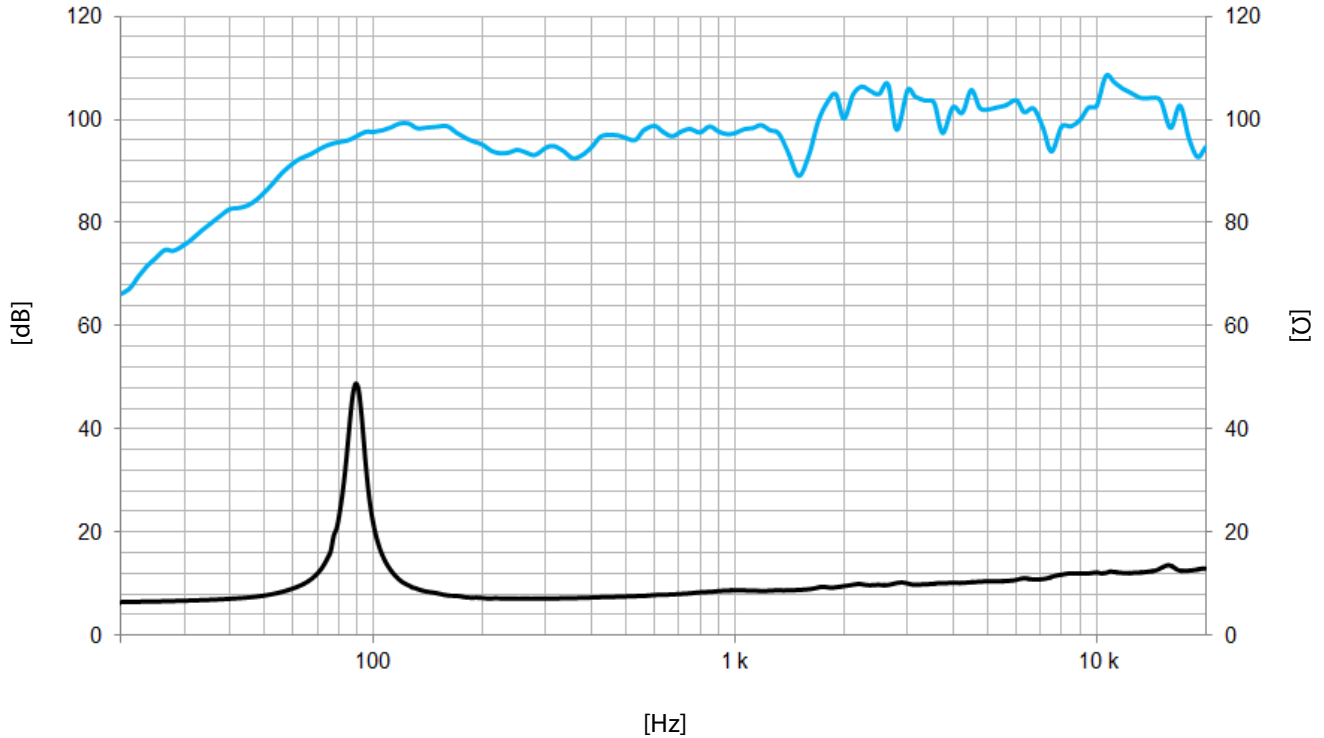
Notes:

¹ The power capacity 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.



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

MOUNTING INFORMATION

Overall diameter	312 mm	12,3 in
Bolt circle diameter	294,5 mm	11,6 in
Baffle cutout diameter:		
- Front mount	278 mm	10,9 in
Depth	139 mm	5,5 in
Net weight	3,5 kg	7,7 lb
Shipping weight	4 kg	8,8 lb

DIMENSION DRAWING

