

KEY FEATURES

- Power handling: 250 / 50 W_{AES} (LF / HF)
- Sensitivity: 97 / 106 dB (1W / 1m) (LF / HF)
- Common neodymium magnet system design
- Low weight and mounting depth
- CONEX spider

- Shorting cup for low harmonic distortion
- Extended controlled displacement: Xmax ± 6 mm
- 24 mm peak-to-peak excursion before damage
- PM4 diaphragm
- 70° coverage horn for HF dispersion control



TECHNICAL SPECIFICATIONS

| | | |
|--|---------------------------|--|
| Nominal diameter | 200 mm | 8 in |
| Rated impedance (LF/HF) | | 8 / 8 Ω |
| Minimum impedance (LF/HF) | | 6,9 / 5,4 Ω |
| Power capacity ¹ (LF/HF) | 250 / 50 W _{AES} | |
| Program power ² (LF/HF) | | 500 / 100 W |
| Sensitivity (LF/HF) ³ | 97 dB | 1W / 1m @ Z _N |
| | 106 dB | 1W / 1m @ Z _N |
| Frequency range | | 90 - 20.000 Hz |
| Recom. HF crossover | | 1,5 kHz or higher (12 dB/oct min slope) |
| Voice coil diameter (LF/HF) | 63,5 mm | 2,5 in |
| | 44,4 mm | 1,75 in |
| BL factor | | 13,2 N/A |
| Moving mass | | 0,021 kg |
| Voice coil length | | 15 mm |
| Air gap height | | 7 mm |
| X_{damage} (peak to peak) | | 24 mm |

Notes:

¹ The power capacity is determined according to AES2-1984 (r2003) standard.

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

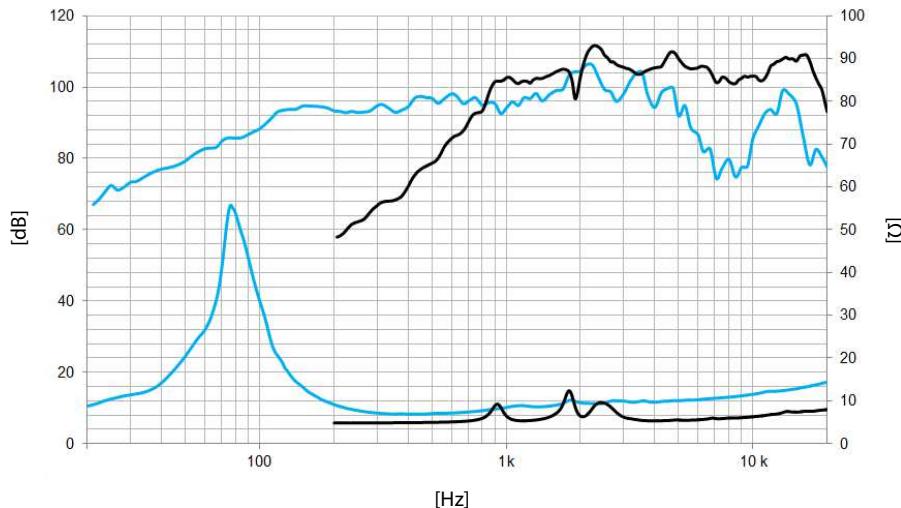
³ Sensitivity was measured at 1m distance, on axis, with 1W input, averaged in the range 2 - 10 kHz

⁴ 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).

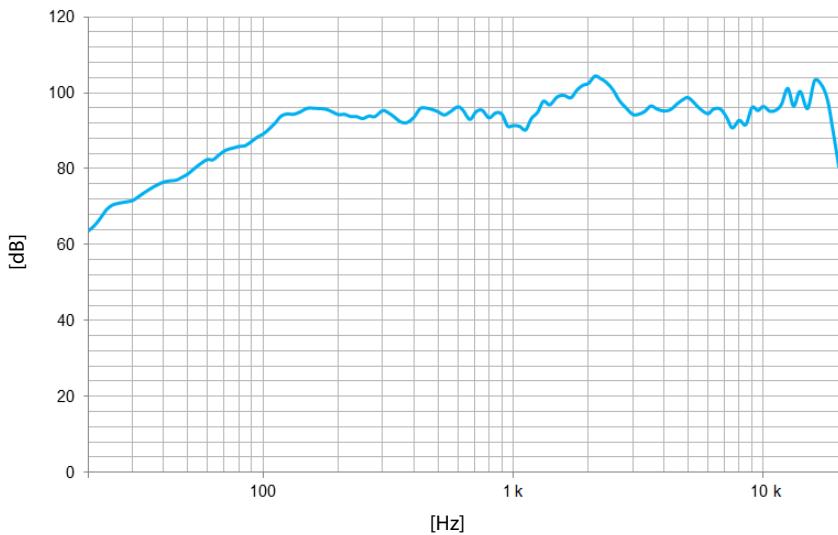
⁵ The X_{max} is calculated as (L_{vc} - H_{ag})/2 + (H_{ag}/3,5), where L_{vc} is the voice coil length and H_{ag} is the air gap height.

THIELE-SMALL PARAMETERS⁴

| | |
|--|----------------------|
| Resonant frequency, f_s | 85 Hz |
| D.C. Voice coil resistance, R_e | 5 Ω |
| Mechanical Quality Factor, Q_{ms} | 3,3 |
| Electrical Quality Factor, Q_{es} | 0,33 |
| Total Quality Factor, Q_{ts} | 0,30 |
| Equivalent Air Volume to C_{ms}, V_{as} | 11,2 l |
| Mechanical Compliance, C_{ms} | 164 μm / N |
| Mechanical Resistance, R_{ms} | 3,4 kg / s |
| Efficiency, η₀ | 2,1 % |
| Effective Surface Area, S_d | 0,022 m ² |
| Maximum Displacement, X_{max}⁵ | 6 mm |
| Displacement Volume, V_d | 132 cm ³ |
| Voice Coil Inductance, L_e | 0,2 mH |



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



Note: Frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1W @ 1m with FD-2CX

MOUNTING INFORMATION

| | | |
|--------------------------------|--------|--------|
| Overall diameter | 212 mm | 8,3 in |
| Bolt circle diameter | 198 mm | 7,8 in |
| Baffle cutout diameter: | | |
| - Front mount | 180 mm | 7,1 in |
| Depth | 106 mm | 4,2 in |
| Net weight | 2,8 kg | 6,2 lb |
| Shipping weight | 3,0 kg | 6,6 lb |

DIMENSION DRAWING

