

KEY FEATURES

- High power handling: 400 / 80 W program power
- High sensitivity: 92 / 103 dB (1W / 1m) (LF / HF)
- 2" / 1,75" voice coil (LF/HF)
- Common neodymium magnet system design
- Waterproof paper cone with Santoprene™ surround
- CONEX spider
- Shorting cap for extended response
- Extended controlled displacement: $X_{\max} \pm 5,5$ mm
- 26 mm peak-to-peak excursion before damage
- Excellent off-axis response
- 70° coverage horn for HF dispersion control



TECHNICAL SPECIFICATIONS

Nominal diameter	165 mm	6,5 in
Rated impedance (LF/HF)	8 / 8 Ω	
Minimum impedance (LF/HF)	5,4 / 5,0 Ω	
Power capacity ¹ (LF/HF)	200 / 40 W _{AES}	
Program power ² (LF/HF)	400 / 80 W	
Sensitivity (LF/HF ³)	92 dB	1W / 1m @ Z _N
	103 dB	1W / 1m @ Z _N
Frequency range	65 - 20.000 Hz	
Recom. HF crossover	2,5 kHz or higher (12 dB/oct min slope)	
Voice coil diameter (LF/HF)	50,8 mm	2 in
	44,4 mm	1,75 in
BI factor	10,5 N/A	
Moving mass	0,016 kg	
Voice coil length	14 mm	
Air gap height	7 mm	
X_{damage} (peak to peak)	26 mm	

Notes:

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

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

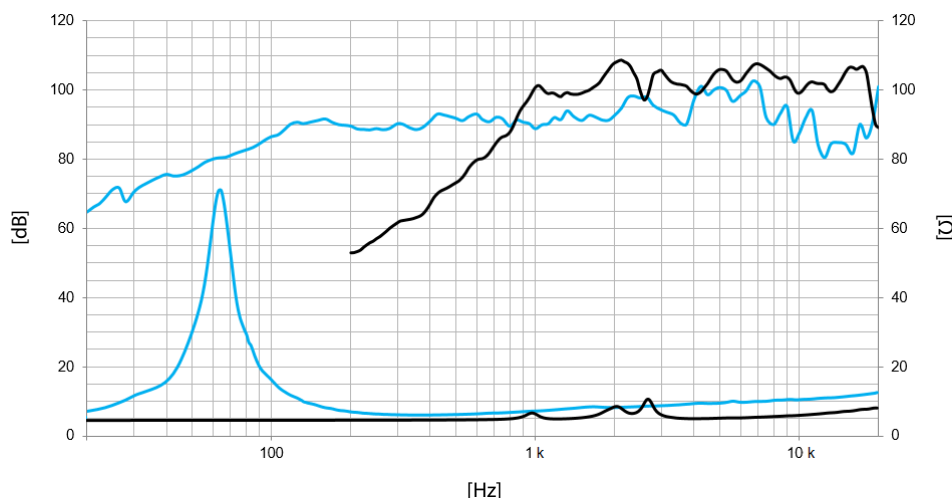
³ Sensitivity was measured at 1m distance, on axis, with 1W input, averaged in the range 1 - 7 kHz.

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.

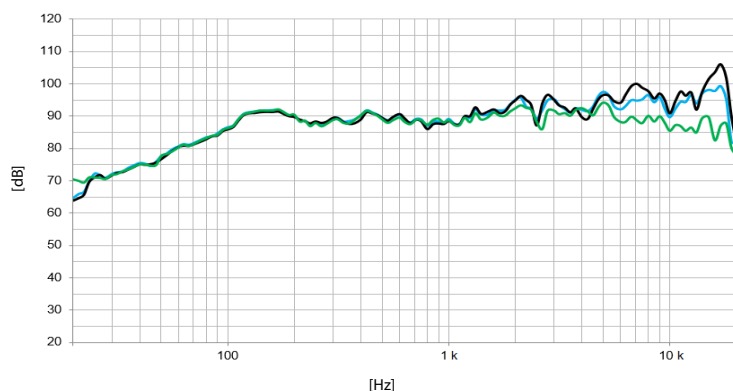
THIELE-SMALL PARAMETERS⁴

Resonant frequency, f_s	65 Hz
D.C. Voice coil resistance, R_e	5,0 Ω
Mechanical Quality Factor, Q_{ms}	3,9
Electrical Quality Factor, Q_{es}	0,29
Total Quality Factor, Q_{ts}	0,27
Equivalent Air Volume to C_{ms}, V_{as}	9,4 l
Mechanical Compliance, C_{ms}	366 μ m / N
Mechanical Resistance, R_{ms}	1,7 kg / s
Efficiency, η_0	0,9 %
Effective Surface Area, S_d	0,0135 m ²
Maximum Displacement, X_{max}⁵	5,5 mm
Displacement Volume, V_d	69 cm ³
Voice Coil Inductance, L_e	0,24 mH



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

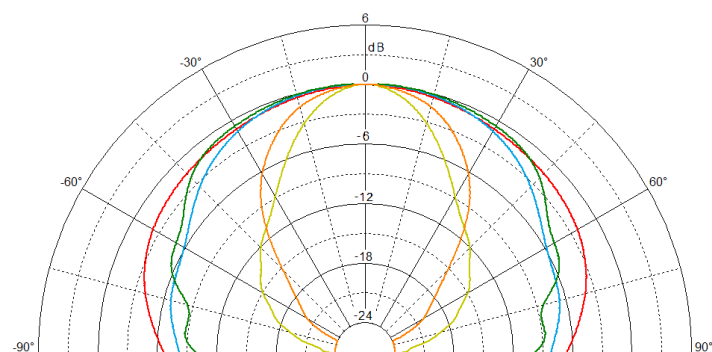
FILTERED FREQUENCY RESPONSE



— 0 degrees — 35 degrees — 70 degrees

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

POLAR PATTERN



— 1 kHz — 2 kHz — 4 kHz — 8 kHz — 16 kHz

MOUNTING INFORMATION

Overall diameter	188 mm	7,4 in
Bolt circle diameter	172 mm	6,8 in
Baffle cutout diameter:		
- Front mount	145 mm	5,7 in
Depth	104 mm	4,1 in
Volume displaced by driver	0,55 l	0,02 ft ³
Net weight	2,0 kg	4,4 lb
Shipping weight	2,2 kg	4,9 lb

DIMENSION DRAWING

