

KEY FEATURES

- High power handling: 700 W_{AES}
- High sensitivity: 96 dB (1W / 1m)
- FEA optimized magnetic circuit
- CONEX spider for higher resistance and consistency
- Weatherproof cone with treatment for both sides of the cone
- 4" DUO double layer in/out voice coil
- Extended controlled displacement: X_{max} ± 10 mm
- 42 mm peak-to-peak excursion before damage



TECHNICAL SPECIFICATIONS

Nominal diameter	460 mm	18 in
Rated impedance		4 Ω
Minimum impedance		4,5 Ω
Power capacity ¹		700 W _{AES}
Program power ²		1.400 W
Sensitivity	96 dB	1W / 1m @ Z _N
Frequency range		40 - 1.000 Hz
Recom. enclosure (Bass-reflex design)		V _b = 250 l F _b = 35 Hz
Voice coil diameter	101,6 mm	4 in
BI factor		19,2 N/A
Moving mass		0,218 kg
Voice coil length		25 mm
Air gap height		10 mm
X _{damage} (peak to peak)		42 mm

THIELE-SMALL PARAMETERS³

Resonant frequency, f _s	36 Hz
D.C. Voice coil resistance, R _e	3,6 Ω
Mechanical Quality Factor, Q _{ms}	9,3
Electrical Quality Factor, Q _{es}	0,48
Total Quality Factor, Q _{ts}	0,46
Equivalent Air Volume to C _{ms} , V _{as}	221 l
Mechanical Compliance, C _{ms}	90 μm / N
Mechanical Resistance, R _{ms}	5,3 kg / s
Efficiency, η ₀	2 %
Effective Surface Area, S _d	0,132 m ²
Maximum Displacement, X _{max} ⁴	10 mm
Displacement Volume, V _d	1320 cm ³
Voice Coil Inductance, L _e @ 1 kHz	1,3 mH

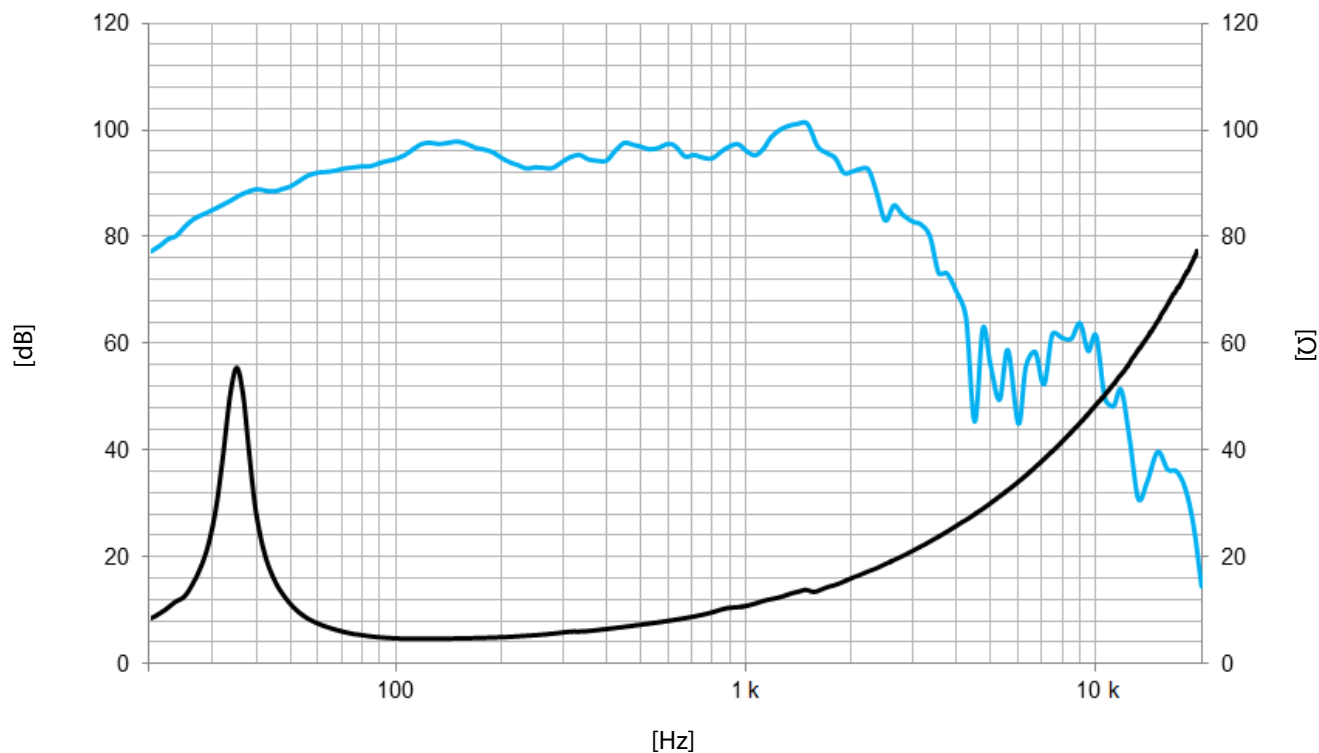
Notes:

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: On axis frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1W @ 1m

MOUNTING INFORMATION

Overall diameter	461 mm	18,2 in
Bolt circle diameter	438 mm	17,2 in
Baffle cutout diameter:		
- Front mount	415 mm	16,4 in
Depth	193 mm	7,6 in
Net weight	11,2 kg	25,8 lb
Shipping weight	12,5 kg	27,5 lb

DIMENSION DRAWING

