

KEY FEATURES

- High power handling: 2.400 W program power
- 4" copper voice coil
- High sensitivity: 98 dB (1W / 1m)
- FEA optimized magnetic circuit
- Low power compression losses
- Weatherproof cone with treatment for both sides of the cone
- CONEX spider
- High excursion capabilities: $X_{\max} \pm 8$ mm
- Low frequency extension and high control



TECHNICAL SPECIFICATIONS

Nominal diameter	460 mm	18 in
Rated impedance		8 Ω
Minimum impedance		5,5 Ω
Power capacity ¹	1.200 W _{AES}	
Program power ²	2.400 W	
Sensitivity	98 dB	1W / 1m @ Z _N
Frequency range	30 - 2.000 Hz	
Recom. Enclosure	V _b = 180 l	
(Bass Reflex Desing)	F _b = 42Hz	
Voice coil diameter	101,6 mm	4 in
BI factor	26,8 N/A	
Moving mass	0,221 kg	
Voice coil length	21 mm	
Air gap height	12 mm	
X _{damage} (peak to peak)	52 mm	

Notes:

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

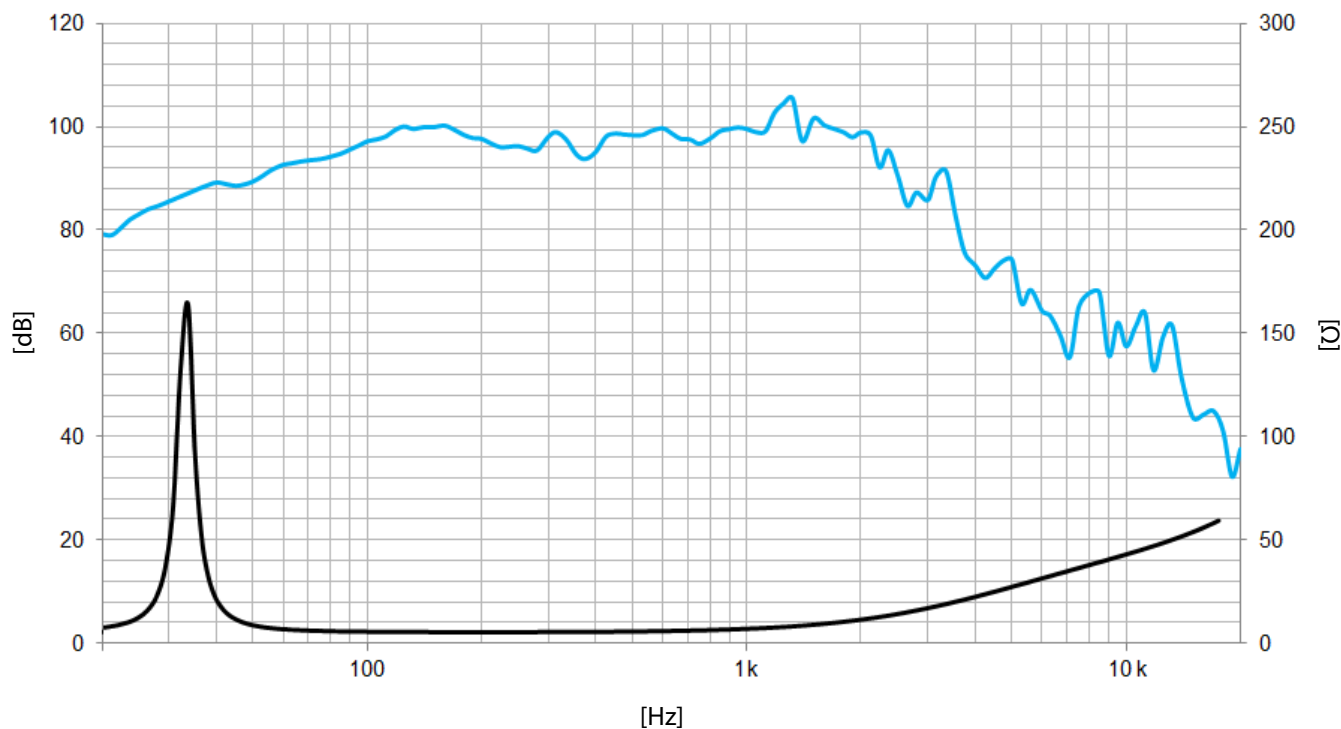
² Program power is defined as power capacity + 3 dB.

³ 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.

THIELE-SMALL PARAMETERS³

Resonant frequency, f_s	33 Hz
D.C. Voice coil resistance, R_e	5,2 Ω
Mechanical Quality Factor, Q_{ms}	10,5
Electrical Quality Factor, Q_{es}	0,33
Total Quality Factor, Q_{ts}	0,32
Equivalent Air Volume to C_{ms} , V_{as}	230 l
Mechanical Compliance, C_{ms}	105 $\mu\text{m} / \text{N}$
Mechanical Resistance, R_{ms}	4,4 kg / s
Efficiency, η_0	2,4 %
Effective Surface Area, S_d	0,1250 m ²
Maximum Displacement, $X_{\max}$ ⁴	8 mm
Displacement Volume, V_d	1000 cm ³
Voice Coil Inductance, L_e	1,75 mH



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

MOUNTING INFORMATION

Overall diameter	461 mm	18,1 in
Bolt circle diameter	438 mm	17,2 in
Baffle cutout diameter:		
- Front mount	415 mm	16,4 in
Depth	212 mm	8,3 in
Net weight	13,5 kg	29,8 lb
Shipping weight	15,8 kg	32,6 lb

DIMENSION DRAWING

