

KEY FEATURES

- High power handling: 1.200 W_{AES}
- High sensitivity: 98 dB (1W / 1m)
- Forced air convection circuit for low power compression
- FEA optimized neodymium magnetic circuit
- Aluminium demodulating ring
- 4" DUO technology copper voice coil
- Exclusive NCR membrane (Neck Coupling Reinforcement)
- Waterproof treatment for both sides of the cone
- Conex spider
- Extended controlled displacement: $X_{max} \pm 9,5$ mm
- 52 mm peak-to-peak excursion before damage



TECHNICAL SPECIFICATIONS

Nominal diameter	460 mm	18 in
Rated impedance		8 Ω
Minimum impedance		6 Ω
Power capacity ¹		1.200 W _{AES}
Program power ²		2.400 W
Sensitivity	98 dB	1W / 1m @ Z _N
Frequency range		40 - 2.000 Hz
Recom. enclosure vol.	80 / 200 l	2,8 / 7 ft ³
Voice coil diameter	101,6 mm	4 in
BI factor		26,3 N/A
Moving mass		0,199 kg
Voice coil length		25 mm
Air gap height		14 mm
X _{damage} (peak to peak)		52 mm

THIELE-SMALL PARAMETERS³

Resonant frequency, f _s	37 Hz
D.C. Voice coil resistance, R _e	5,3 Ω
Mechanical Quality Factor, Q _{ms}	10,4
Electrical Quality Factor, Q _{es}	0,35
Total Quality Factor, Q _{ts}	0,34
Equivalent Air Volume to C _{ms} , V _{as}	198 l
Mechanical Compliance, C _{ms}	93 μ m / N
Mechanical Resistance, R _{ms}	4,5 kg / s
Efficiency, η_0	2,7 %
Effective Surface Area, S _d	0,1255 m ²
Maximum Displacement, X _{max} ⁴	9,5 mm
Displacement Volume, V _d	1664 cm ³
Voice Coil Inductance, L _e	2,3 mH

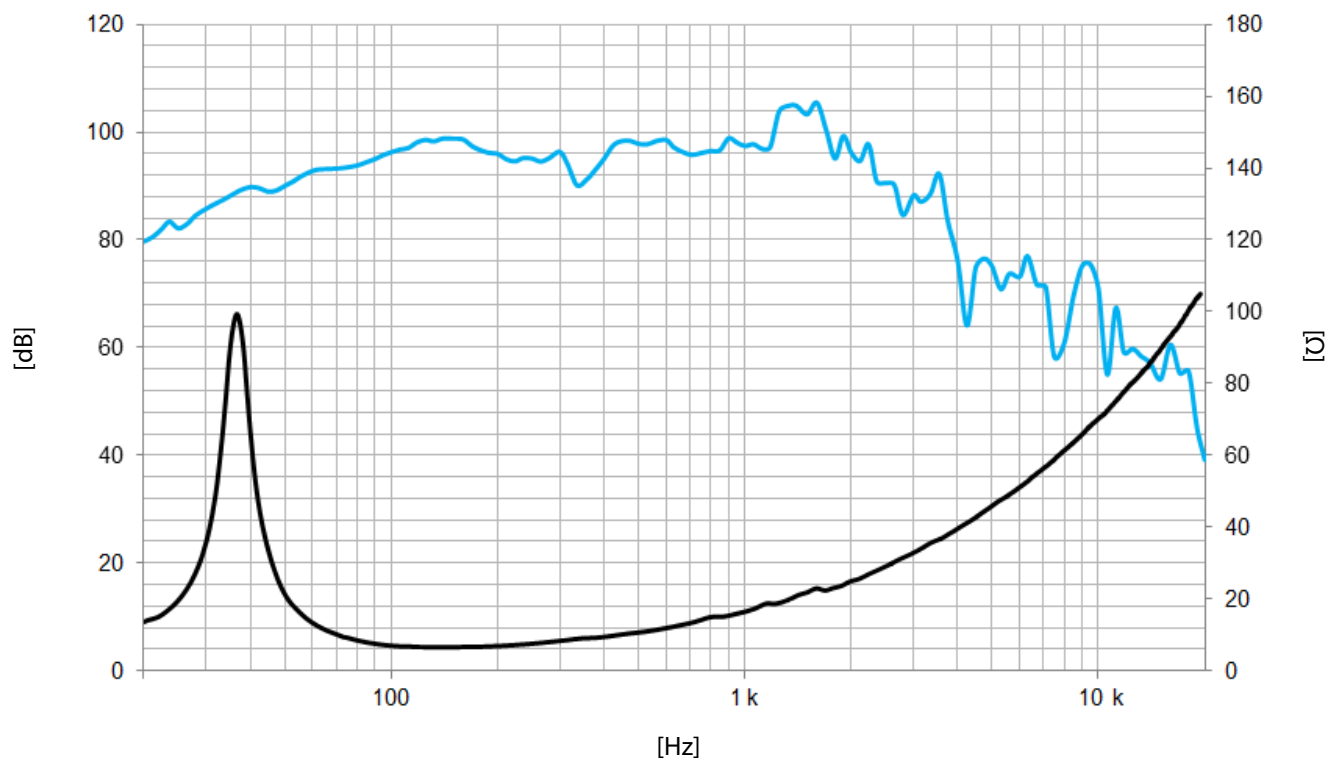
Notes:

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

MOUNTING INFORMATION

Overall diameter	462 mm	18,2 in
Bolt circle diameter	438 mm	17,2 in
Baffle cutout diameter:		
- Front mount	415 mm	16,3 in
Depth	205 mm	8,1 in
Net weight	8,5 kg	18,7 lb
Shipping weight	10 kg	22,0 lb

DIMENSION DRAWING

