

KEY FEATURES



- High power handling and low distortion 18" subwoofer
- Exclusive Malt Cross® Technology Cooling System
- Low power compression losses
- High sensitivity: 97 dB (1W / 1m)
- FEA optimized ceramic magnetic circuit
- Ultra low air noise
- Optimized linear behaviour

- Weatherproof cone with treatment for both sides
- Double silicone spider
- 4" DUO double layer in/out copper voice coil
- Aluminium demodulating ring
- Extended controlled displacement: $X_{max} \pm 11$ mm
- 48 mm peak-to-peak excursion before damage
- Optimized for direct radiation and band-pass subwoofer applications



TECHNICAL SPECIFICATIONS

Nominal diameter	460 mm	18 in
Rated impedance		8 Ω
Minimum impedance		5,8 Ω
Power capacity ¹	1.200 W _{AES}	
Program power ²	2.400 W	
Sensitivity	97 dB	1W / 1m @ Z _N
Frequency range	40 - 1.000 Hz	

Voice coil diameter	101,6 mm	4 in
BI factor	23,2 N/A	
Moving mass	0,2 kg	
Voice coil length	27 mm	
Air gap height	12 mm	
X _{damage} (peak to peak)	48 mm	

Notes:

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

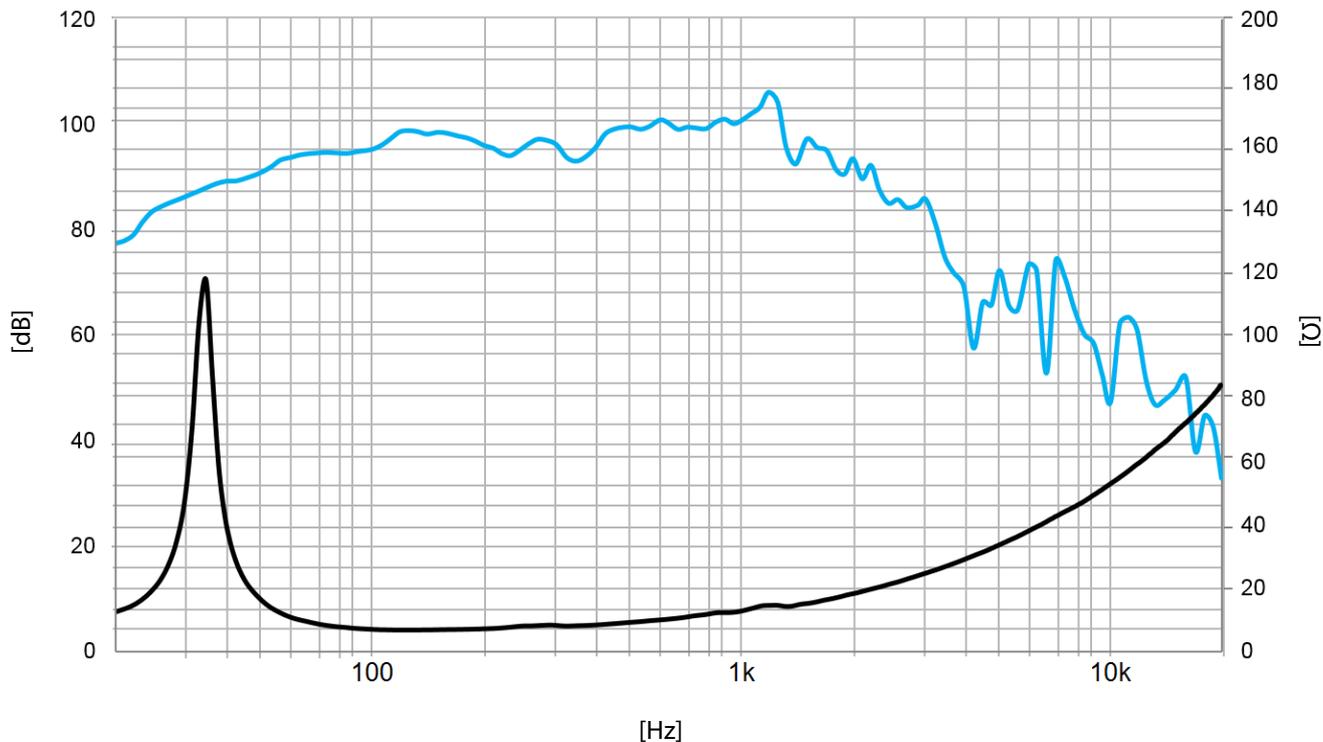
² Program power is defined as power capacity + 3 dB.

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	32 Hz
D.C. Voice coil resistance, R _e	5,3 Ω
Mechanical Quality Factor, Q _{ms}	12,2
Electrical Quality Factor, Q _{es}	0,39
Total Quality Factor, Q _{ts}	0,38
Equivalent Air Volume to C _{ms} , V _{as}	277 l
Mechanical Compliance, C _{ms}	124 μ m / N
Mechanical Resistance, R _{ms}	3,2 kg / s
Efficiency, η_0	2,2 %
Effective Surface Area, S _d	0,1255 m ²
Maximum Displacement, X _{max} ⁴	11 mm
Displacement Volume, V _d	1372 cm ³
Voice Coil Inductance, L _e	1,21 mH



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

— Frequency response on axis

MOUNTING INFORMATION

Overall diameter	462 mm	18,18 in
Bolt circle diameter	440 mm	17,32 in
Baffle cutout diameter:		
- Front mount	415 mm	16,33 in
Depth	225 mm	8,85 in
Net weight	14 kg	30,8 lb
Shipping weight	15,2 kg	33,5 lb

DIMENSION DRAWING

