

KEY FEATURES



- High power handling and low distortion 21" subwoofer
- Exclusive Malt Cross® Technology Cooling System
- Low power compression losses
- High sensitivity: 98,5 dB (1W / 1m)
- FEA optimized ferrite magnetic circuit
- Optimized non-linear behaviour

- Waterproof cone with treatment for both sides
- Double silicone spider
- 4" DUO double layer in/out copper voice coil
- Aluminium demodulating ring
- Extended controlled displacement: $X_{max} \pm 10$ mm
- 55 mm peak-to-peak excursion before damage



TECHNICAL SPECIFICATIONS

Nominal diameter	540 mm	21 in
Rated impedance		8 Ω
Minimum impedance		6,6 Ω
Power capacity ¹	1.400 W _{AES}	
Program power ²	2.800 W	
Sensitivity	98,5 dB	1W / 1m @ Z _N
Frequency range	35 - 2.000 Hz	
Recom. enclosure vol.	100 / 250 l	3,5 / 9 ft ³
Voice coil diameter	101,6 mm	4 in
Bl factor		31,6 N/A
Moving mass		0,357 kg
Voice coil length		25 mm
Air gap height		12 mm
X _{damage} (peak to peak)		55 mm

THIELE-SMALL PARAMETERS³

Resonant frequency, f _s	33 Hz
D.C. Voice coil resistance, R _e	4,9 Ω
Mechanical Quality Factor, Q _{ms}	4,1
Electrical Quality Factor, Q _{es}	0,36
Total Quality Factor, Q _{ts}	0,33
Equivalent Air Volume to C _{ms} , V _{as}	272 l
Mechanical Compliance, C _{ms}	64 μ m / N
Mechanical Resistance, R _{ms}	18 kg / s
Efficiency, η_0	2,6 %
Effective Surface Area, S _d	0,1734 m ²
Maximum Displacement, X _{max} ⁴	10 mm
Displacement Volume, V _d	1734 cm ³
Voice Coil Inductance, L _e @ 1 kHz	1,3 mH

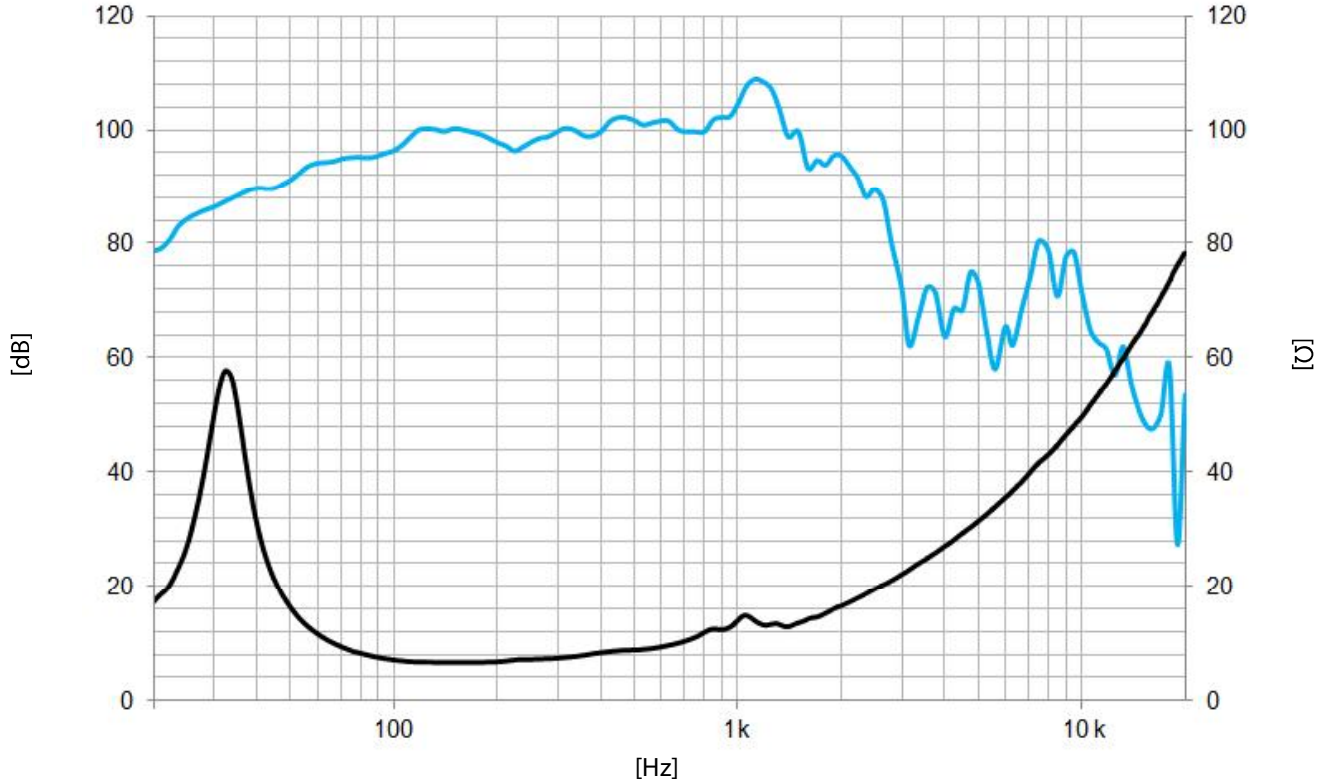
Notes:

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

MOUNTING INFORMATION

Overall diameter	545 mm	21,5 in
Bolt circle diameter	522,5 mm	20,6 in
Baffle cutout diameter:		
- Front mount	492 mm	19,4 in
Depth	260 mm	10,2 in
Net weight	19,2 kg	42,3 lb
Shipping weight	21,9 kg	48,3 lb

DIMENSION DRAWING

