

KEY FEATURES



- Low distortion 18" subwoofer
- Power handling 1.200 W program power
- Exclusive Malt Cross[®] Technology Cooling System
- High sensitivity: 97 dB (1W / 1m)
- FEA optimized ferrite magnetic circuit
- Ultra low air noise
- Optimized linear behaviour

- Weather resistant cone with treatment on both sides
- 3" copper voice coil
- Optimized pressed steel frame
- Extended controlled displacement: $X_{\text{max}} \pm 8,5$ mm
- 53 mm peak-to-peak excursion before damage
- Optimized for direct radiation subwoofer applications



TECHNICAL SPECIFICATIONS

Nominal diameter	460 mm	18 in
Rated impedance		8 Ω
Minimum impedance		6,5 Ω
Power capacity ¹	600 W _{AES}	
Program power ²	1.200 W	
Sensitivity	97 dB	1W / 1m @ Z _N
Frequency range	35 - 1.000 Hz	
Voice coil diameter	76,2 mm	3 in
Bl factor		19 N/A
Moving mass	0,178 kg	
Voice coil length	21,5 mm	
Air gap height	9,5 mm	
X _{damage} (peak to peak)	53 mm	

THIELE-SMALL PARAMETERS³

Resonant frequency, f _s	30 Hz
D.C. Voice coil resistance, R _e	5,2 Ω
Mechanical Quality Factor, Q _{ms}	13,8
Electrical Quality Factor, Q _{es}	0,48
Total Quality Factor, Q _{ts}	0,47
Equivalent Air Volume to C _{ms} , V _{as}	354 l
Mechanical Compliance, C _{ms}	159 $\mu\text{m} / \text{N}$
Mechanical Resistance, R _{ms}	2,4 kg / s
Efficiency, η_0	1,9 %
Effective Surface Area, S _d	0,1255 m ²
Maximum Displacement, X _{max} ⁴	8,5 mm
Displacement Volume, V _d	1130 cm ³
Voice Coil Inductance, L _e @ 1 kHz	1,3 mH

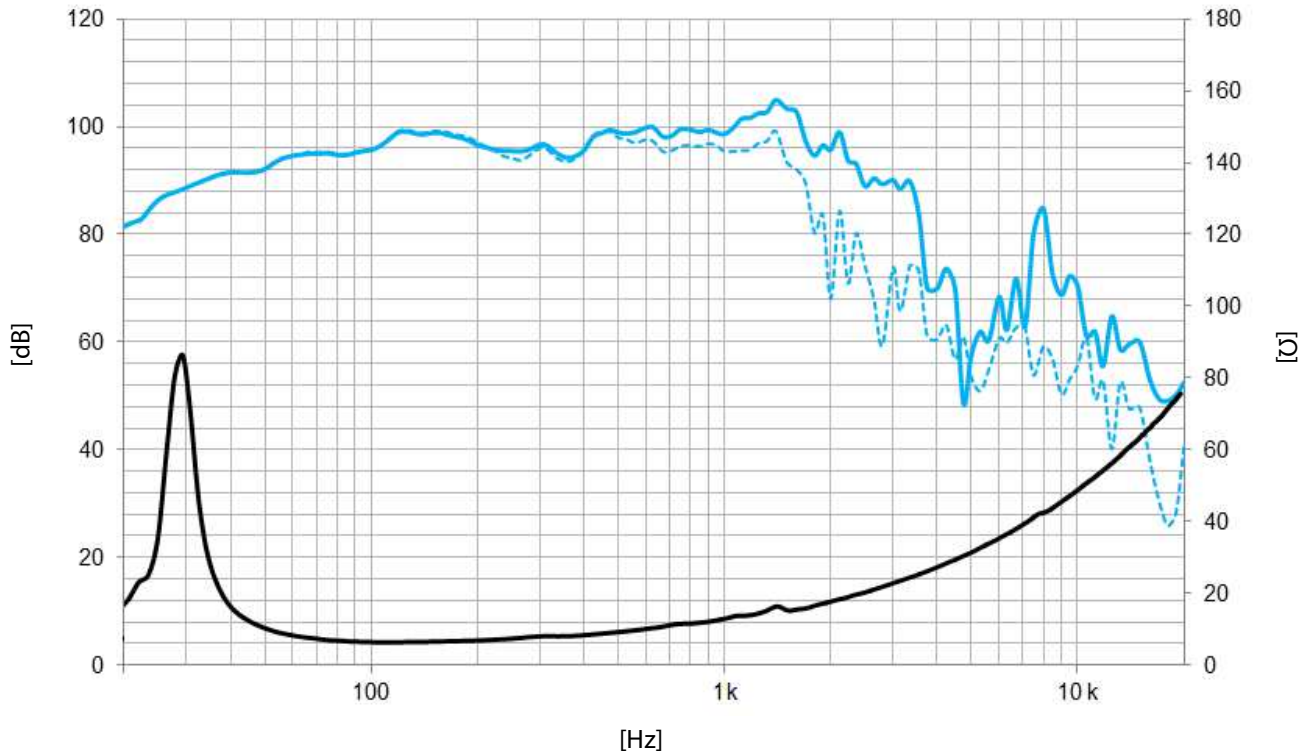
Notes:

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

— Frequency response on axis
- - - Frequency response 45° off axis

MOUNTING INFORMATION

Overall diameter	457 mm	17,99 in
Bolt circle diameter	437,5 mm	17,22 in
Baffle cutout diameter:		
- Front mount	425 mm	16,73 in
Depth	218 mm	8,58 in
Net weight	8,7 kg	19,2 lb
Shipping weight	10 kg	22 lb

DIMENSION DRAWING

