

KEY FEATURES



- High power handling and low distortion 15" subwoofer
- High force factor design for top performance applications
- Exclusive Malt Cross® Technology Cooling System
- Low power compression losses
- High sensitivity: 96 dB (1W / 1m)
- FEA optimized ceramic magnetic circuit
- Aluminium demodulating ring
- Ultra low air noise
- Optimized linear behaviour
- Exclusive NCR membrane (Neck Coupling Reinforcement)
- Waterproof cone with treatment for both sides
- Double silicone spider
- 4" QUATTRO in/out copper voice coil
- Extended controlled displacement: $X_{max} \pm 13$ mm
- 60 mm peak-to-peak excursion before damage
- Optimized for direct radiation and band-pass subwoofer applications



TECHNICAL SPECIFICATIONS

Nominal diameter	380 mm	15 in
Rated impedance		8 Ω
Minimum impedance		6,3 Ω
Power capacity ¹	1.600 W _{AES}	
Program power ²	3.200 W	
Sensitivity	96 dB	1W / 1m @ Z_N
Frequency range	35 - 1.000 Hz	
Recom. enclosure	$V_b = 80$ l	
(Bass-reflex design)	$F_b = 40$ Hz	
Voice coil diameter	101,6 mm	4 in
BI factor	35,6 N/A	
Moving mass	0,254 kg	
Voice coil length	32 mm	
Air gap height	15 mm	
X_{damage} (peak to peak)	60 mm	

Notes:

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

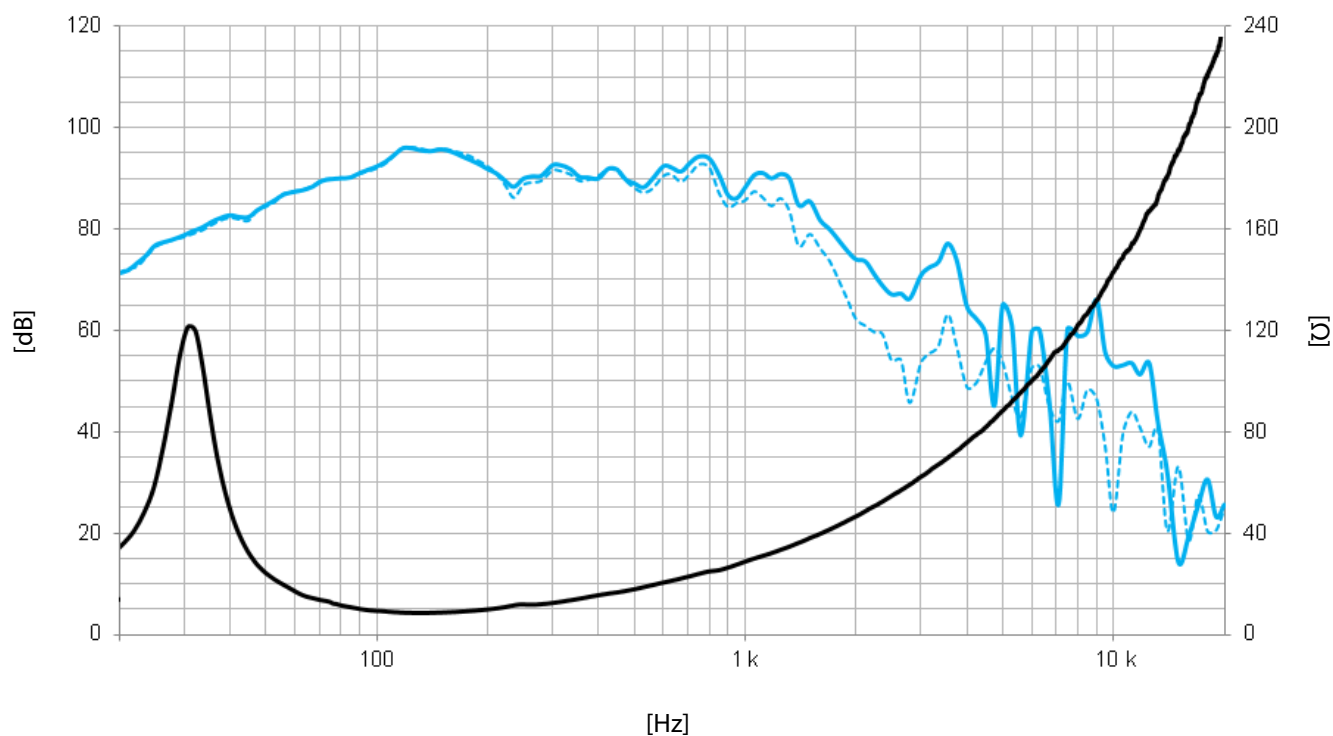
² Program power is defined as power capacity + 3 dB.

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	5,3 Ω
Mechanical Quality Factor, Q_{ms}	6,3
Electrical Quality Factor, Q_{es}	0,22
Total Quality Factor, Q_{ts}	0,21
Equivalent Air Volume to C_{ms} , V_{as}	102 l
Mechanical Compliance, C_{ms}	93 $\mu\text{m} / \text{N}$
Mechanical Resistance, R_{ms}	8,3 kg / s
Efficiency, η_0	1,6 %
Effective Surface Area, S_d	0,088 m ²
Maximum Displacement, X_{max} ⁴	13 mm
Displacement Volume, V_d	1144 cm ³
Voice Coil Inductance, L_e	3,7 mH



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	393 mm	15,5 in
Bolt circle diameter	373 mm	14,7 in
Baffle cutout diameter:		
- Front mount	352 mm	13,9 in
Depth	191 mm	7,5 in
Volume displaced by driver	5,5 l	0,19 ft ³
Net weight	13,9 kg	30,6 lb
Shipping weight	14,9 kg	32,8 lb

DIMENSION DRAWING

