

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)
- Weatherproof 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.

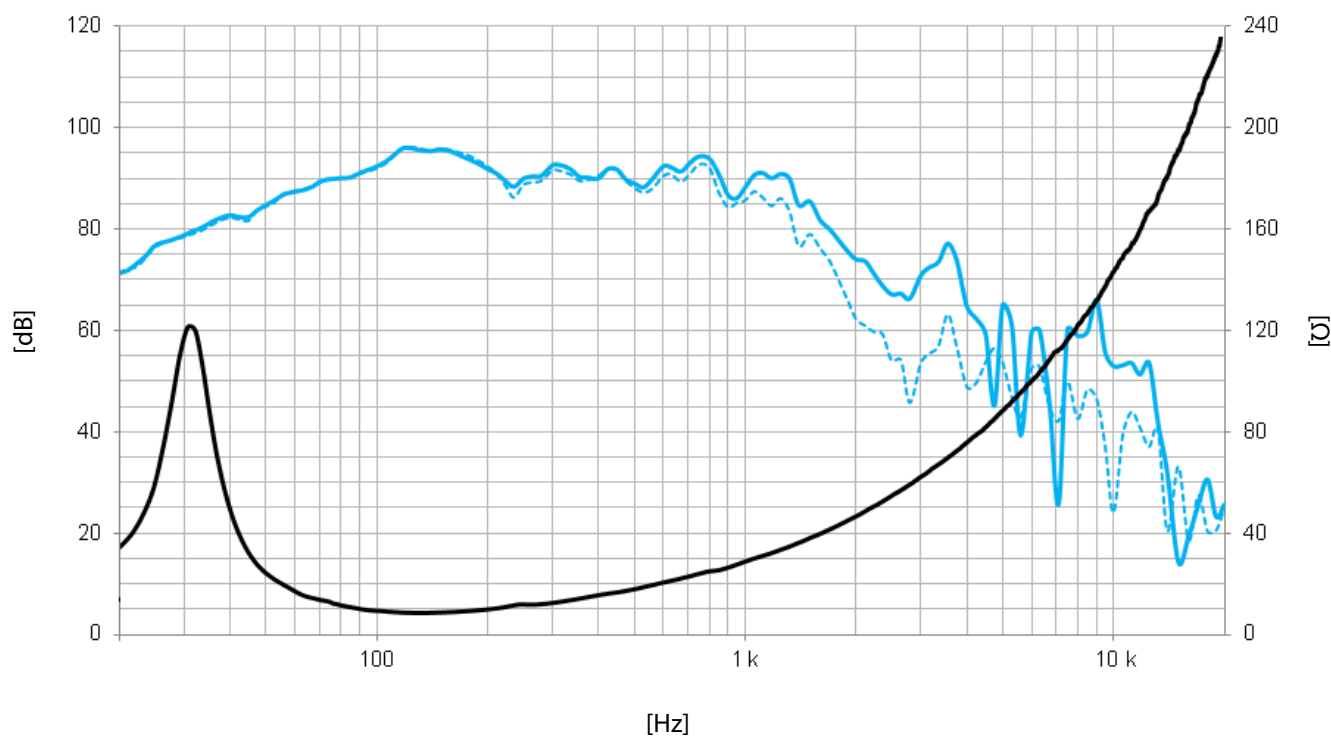
² Program power is defined as power capacity + 3 dB.

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 μ m / 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

