

KEY FEATURES



- High power handling and low distortion 21" subwoofer
- Exclusive Malt Cross® Technology Cooling System
- Low power compression losses
- High sensitivity: 98 dB (1W / 1m)
- FEA optimized ceramic magnetic circuit
- Aluminium demodulating ring
- Ultra low air noise
- Optimized linear behaviour
- 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	540 mm	21 in
Rated impedance		8 Ω
Minimum impedance		6,3 Ω
Power capacity ¹		1.600 W _{AES}
Program power ²		3.200 W
Sensitivity	98 dB	1W / 1m @ Z _N
Frequency range		30 - 1.000 Hz
Recom. enclosure		V _b = 170 l
(Bass-reflex design)		F _b = 38 Hz
Voice coil diameter	101,6 mm	4 in
BI factor		36,4 N/A
Moving mass		0,388 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.

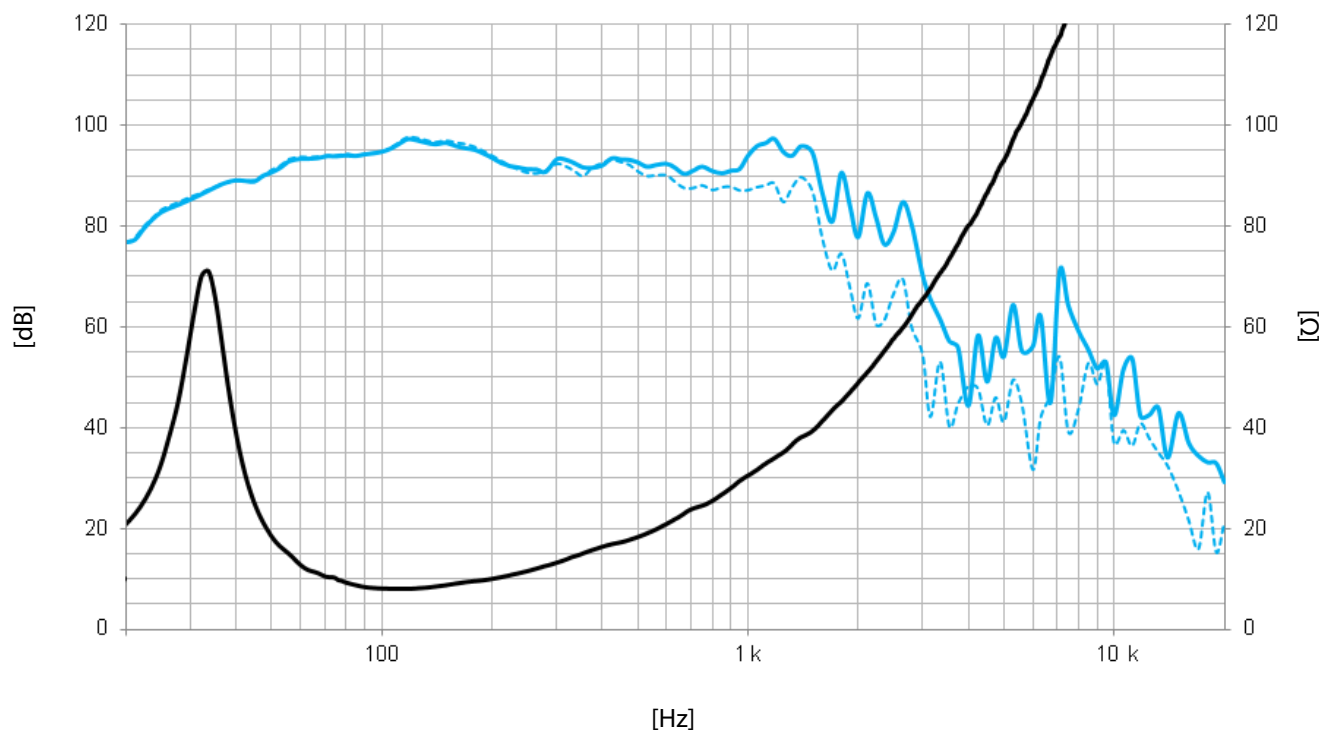
² Program power is defined as power capacity + 3 dB.

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	30 Hz
D.C. Voice coil resistance, R _e	5,4 Ω
Mechanical Quality Factor, Q _{ms}	4,5
Electrical Quality Factor, Q _{es}	0,30
Total Quality Factor, Q _{ts}	0,28
Equivalent Air Volume to C _{ms} , V _{as}	309 l
Mechanical Compliance, C _{ms}	72 μ m / N
Mechanical Resistance, R _{ms}	16,2 kg / s
Efficiency, η_0	2,7 %
Effective Surface Area, S _d	0,1734 m ²
Maximum Displacement, X _{max} ⁴	13 mm
Displacement Volume, V _d	2254 cm ³
Voice Coil Inductance, L _e	4 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	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	266 mm	10,5 in
Volume displaced by driver	11,5 l	0,40 ft ³
Net weight	17,1 kg	37,6 lb
Shipping weight	19,6 kg	43,1 lb

DIMENSION DRAWING

