

## 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 neodymium magnetic circuit
- Ultra low air noise
- Optimized non-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
- Aluminium demodulating ring
- Extended controlled displacement:  $X_{max} \pm 14$  mm
- 65 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 $\Omega$
Minimum impedance		7,2 $\Omega$
Power capacity <sup>1</sup>	1.600 W <sub>AES</sub>	
Program power <sup>2</sup>	3.200 W	
Sensitivity	98 dB	1W / 1m @ Z <sub>N</sub>
Frequency range	30 - 1.000 Hz	
Recom. enclosure (Bass-reflex design)	V <sub>b</sub> = 150 l F <sub>b</sub> = 40 Hz	
Voice coil diameter	101,6 mm	4 in
BI factor	36,6 N/A	
Moving mass	0,393 kg	
Voice coil length	34,5 mm	
Air gap height	14 mm	
X <sub>damage</sub> (peak to peak)	65 mm	

Notes:

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

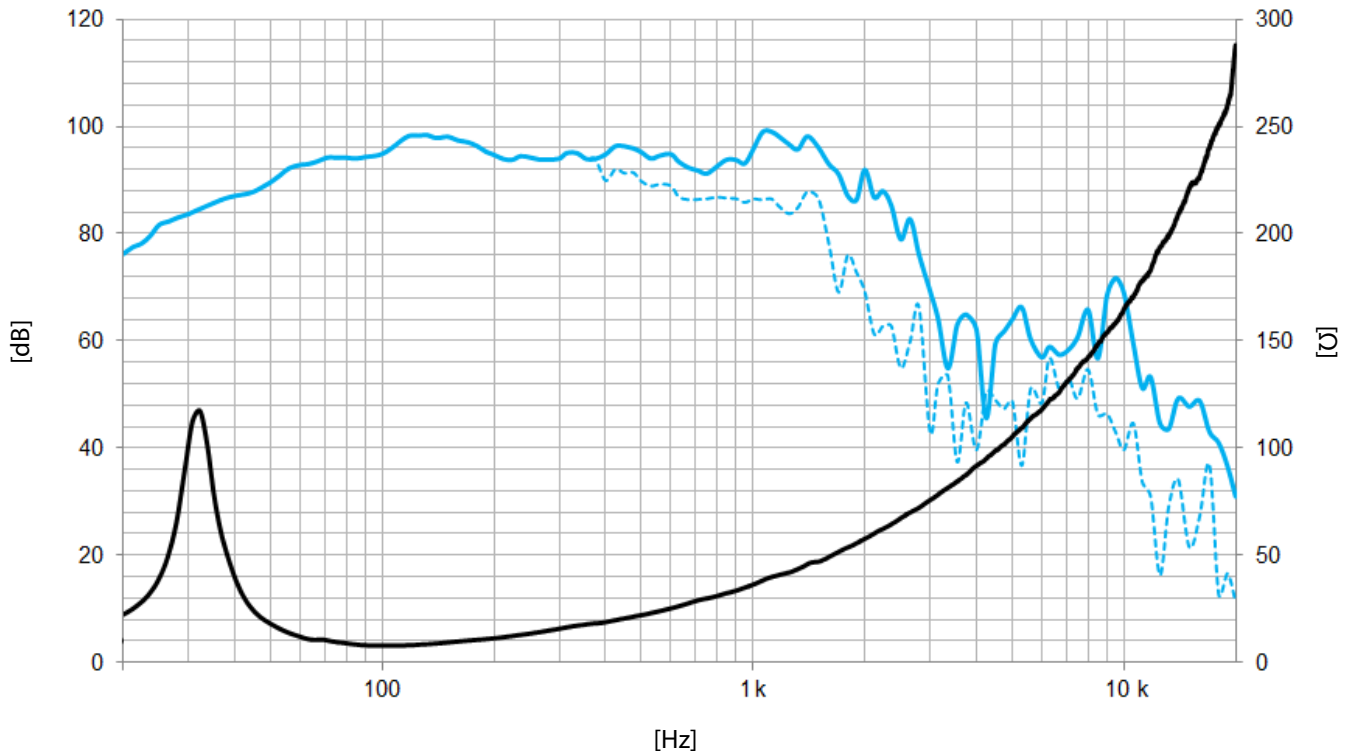
<sup>2</sup> Program power is defined as power capacity + 3 dB.

<sup>3</sup> 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).

<sup>4</sup> The X<sub>max</sub> is calculated as (L<sub>vc</sub> - H<sub>ag</sub>)/2 + (H<sub>ag</sub>/3,5), where L<sub>vc</sub> is the voice coil length and H<sub>ag</sub> is the air gap height.

## THIELE-SMALL PARAMETERS<sup>3</sup>

Resonant frequency, f <sub>s</sub>	30 Hz
D.C. Voice coil resistance, R <sub>e</sub>	5,4 $\Omega$
Mechanical Quality Factor, Q <sub>ms</sub>	8,6
Electrical Quality Factor, Q <sub>es</sub>	0,30
Total Quality Factor, Q <sub>ts</sub>	0,29
Equivalent Air Volume to C <sub>ms</sub> , V <sub>as</sub>	305 l
Mechanical Compliance, C <sub>ms</sub>	72 $\mu$ m / N
Mechanical Resistance, R <sub>ms</sub>	8,6 kg / s
Efficiency, $\eta_0$	2,7 %
Effective Surface Area, S <sub>d</sub>	0,1734 m <sup>2</sup>
Maximum Displacement, X <sub>max</sub> <sup>4</sup>	14 mm
Displacement Volume, V <sub>d</sub>	2428 cm <sup>3</sup>
Voice Coil Inductance, L <sub>e</sub> @ 1 kHz	4,7 mH



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

### MOUNTING INFORMATION

<b>Overall diameter</b>	545 mm	21,5 in
<b>Bolt circle diameter</b>	522,5 mm	20,6 in
<b>Baffle cutout diameter:</b>		
- Front mount	492 mm	19,4 in
<b>Depth</b>	268 mm	10,6 in
<b>Volume displaced by driver</b>	11.0 l	0,39 ft <sup>3</sup>
<b>Net weight</b>	11,8 kg	26,0 lb
<b>Shipping weight</b>	14,3 kg	31,5 lb

### DIMENSION DRAWING

