

### KEY FEATURES



- High power handling and low distortion 15" subwoofer
- Exclusive Malt Cross® Technology Cooling System
- Low power compression losses
- High sensitivity: 97 dB (1W / 1m)
- FEA optimized neodymium magnetic circuit
- Ultra low air noise
- Optimized non-linear behaviour
- Waterproof cone with treatment for both sides
- 3,5" DUO double layer in/out copper voice coil
- Extended controlled displacement:  $X_{max} \pm 10$  mm
- 65 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 $\Omega$
Minimum impedance		6,8 $\Omega$
Power capacity <sup>1</sup>		1.000 W <sub>AES</sub>
Program power <sup>2</sup>		2.000 W
Sensitivity	97 dB	1W / 1m @ Z <sub>N</sub>
Frequency range		40 - 1.500 Hz
Recom. enclosure (Bass-reflex design)		V <sub>b</sub> = 115 l F <sub>b</sub> = 40 Hz
Voice coil diameter	88,9 mm	3,5 in
BI factor		21,9 N/A
Moving mass		0,147 kg
Voice coil length		25 mm
Air gap height		12 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.

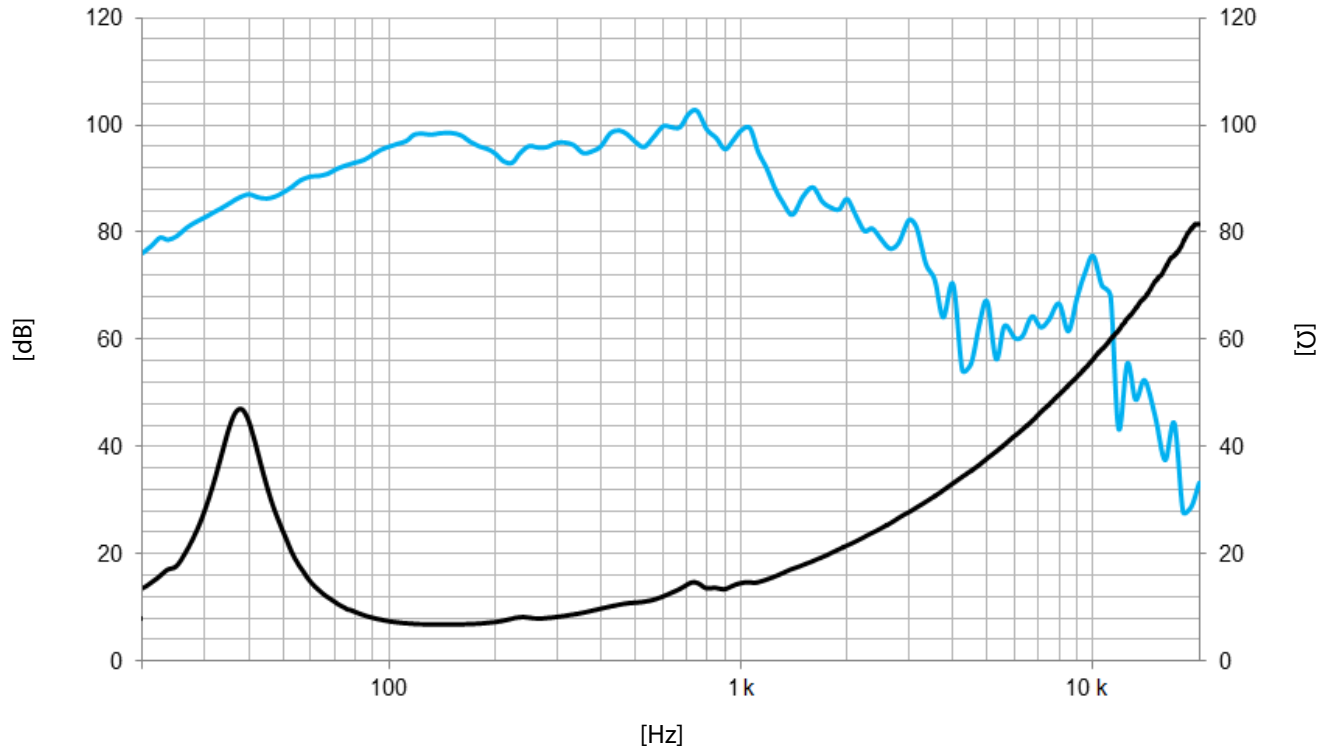
<sup>2</sup> Program power is defined as power capacity + 3 dB.

<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>	41 Hz
D.C. Voice coil resistance, R <sub>e</sub>	5,2 $\Omega$
Mechanical Quality Factor, Q <sub>ms</sub>	3,9
Electrical Quality Factor, Q <sub>es</sub>	0,41
Total Quality Factor, Q <sub>ts</sub>	0,37
Equivalent Air Volume to C <sub>ms</sub> , V <sub>as</sub>	113 l
Mechanical Compliance, C <sub>ms</sub>	103 $\mu$ m / N
Mechanical Resistance, R <sub>ms</sub>	9,7 kg / s
Efficiency, $\eta_0$	1,8 %
Effective Surface Area, S <sub>d</sub>	0,088 m <sup>2</sup>
Maximum Displacement, X <sub>max</sub> <sup>4</sup>	10 mm
Displacement Volume, V <sub>d</sub>	880 cm <sup>3</sup>
Voice Coil Inductance, L <sub>e</sub>	1,1 mH



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

## MOUNTING INFORMATION

<b>Overall diameter</b>	393 mm	15,5 in
<b>Bolt circle diameter</b>	373 mm	14,7 in
<b>Baffle cutout diameter:</b>		
- Front mount	352 mm	13,9 in
<b>Depth</b>	189 mm	7,4 in
<b>Volume displaced by driver</b>	4,5 l	0,16 ft <sup>3</sup>
<b>Net weight</b>	6,7 kg	14,8 lb
<b>Shipping weight</b>	7,7 kg	17,0 lb

## DIMENSION DRAWING

