

## KEY FEATURES



- High power handling and low distortion 18" 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 linear behaviour

- Weatherproof cone with treatment for both sides
- Double silicone spider
- 4" DUO double layer in/out copper voice coil
- Aluminium demodulating ring
- Extended controlled displacement:  $X_{max} \pm 11$  mm
- 48 mm peak-to-peak excursion before damage
- Optimized for direct radiation and band-pass subwoofer applications



## TECHNICAL SPECIFICATIONS

Nominal diameter	460 mm	18 in
Rated impedance		8 $\Omega$
Minimum impedance		5,8 $\Omega$
Power capacity <sup>1</sup>	1.200 W <sub>AES</sub>	
Program power <sup>2</sup>	2.400 W	
Sensitivity	98 dB	1W / 1m @ Z <sub>N</sub>
Frequency range	40 - 1.000 Hz	
Recom. enclosure (Bass/reflex design)	V <sub>b</sub> = 172 l F <sub>b</sub> = 42 Hz	
Voice coil diameter	101,6 mm	4 in
BI factor	26,4 N/A	
Moving mass	200 g	
Voice coil length	27 mm	
Air gap height	12 mm	
X <sub>damage</sub> (peak to peak)	48 mm	

Notes:

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

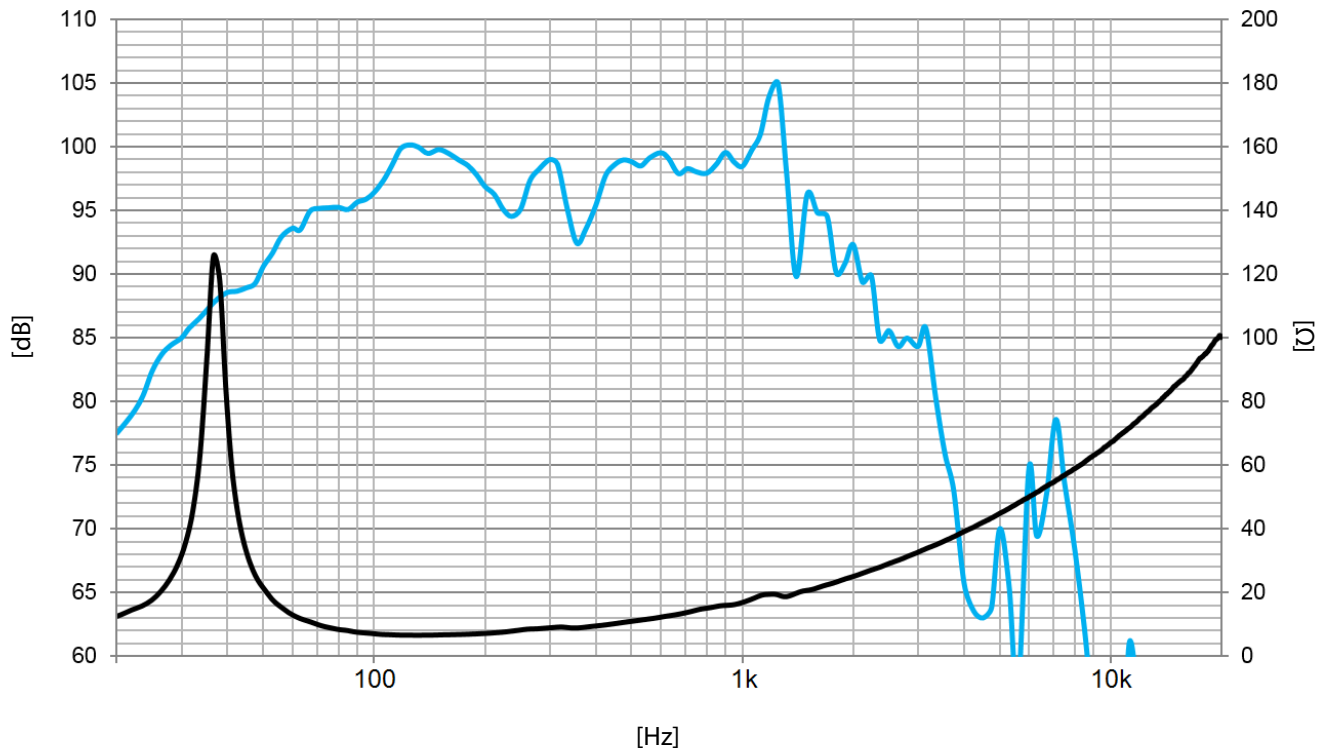
<sup>2</sup> Program power is defined as power capacity + 3 dB.

<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>	36 Hz
D.C. Voice coil resistance, R <sub>e</sub>	5,3 $\Omega$
Mechanical Quality Factor, Q <sub>ms</sub>	10,9
Electrical Quality Factor, Q <sub>es</sub>	0,35
Total Quality Factor, Q <sub>ts</sub>	0,33
Equivalent Air Volume to C <sub>ms</sub> , V <sub>as</sub>	219 l
Mechanical Compliance, C <sub>ms</sub>	0,1 mm / N
Mechanical Resistance, R <sub>ms</sub>	4,1 kg / s
Efficiency, $\eta_0$	2,8 %
Effective Surface Area, S <sub>d</sub>	1255 cm <sup>2</sup>
Maximum Displacement, X <sub>max</sub> <sup>4</sup>	11 mm
Displacement Volume, V <sub>d</sub>	1,3 l
Voice Coil Inductance, L <sub>e</sub>	1,7 mH



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

— Frequency response on axis

## MOUNTING INFORMATION

Overall diameter	462 mm	18,18 in
Bolt circle diameter	440 mm	17,32 in
Baffle cutout diameter:		
- Front mount	415 mm	16,33 in
Depth	225 mm	8,85 in
Net weight	9 kg	19,8 lb
Shipping weight	10,2 kg	22,5 lb

## DIMENSION DRAWING

