

## KEY FEATURES



- High power handling and low distortion 18" subwoofer
- Exclusive Malt Cross® Technology Cooling System
- Low power compression losses
- High sensitivity: 96 dB (1W / 1m)
- FEA optimized neodymium magnetic circuit
- Ultra low air noise
- Designed with MMSS technology
- Optimized non-linear behavior

- Exclusive NCR membrane (Neck Coupling Reinforcement)
- Waterproof cone with treatment for both sides
- Double silicone spider
- 4" DUO double layer in/out copper voice coil
- Aluminium demodulating ring
- Extended controlled displacement:  $X_{max} \pm 14,5$  mm
- 65 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		7 $\Omega$
Power capacity <sup>1</sup>	1.600 W <sub>AES</sub>	
Program power <sup>2</sup>	3.200 W	
Sensitivity	96 dB	1W / 1m @ Z <sub>N</sub>
Frequency range	35 - 1.000 Hz	
Voice coil diameter	101,6 mm	4 in
BI factor	24,5 N/A	
Moving mass	0,229 kg	
Voice coil length	35 mm	
Air gap height	14 mm	
X <sub>damage</sub> (peak to peak)	65 mm	

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

Resonant frequency, f <sub>s</sub>	33 Hz
D.C. Voice coil resistance, R <sub>e</sub>	5,8 $\Omega$
Mechanical Quality Factor, Q <sub>ms</sub>	11,4
Electrical Quality Factor, Q <sub>es</sub>	0,45
Total Quality Factor, Q <sub>ts</sub>	0,43
Equivalent Air Volume to C <sub>ms</sub> , V <sub>as</sub>	231 l
Mechanical Compliance, C <sub>ms</sub>	104 $\mu$ m / N
Mechanical Resistance, R <sub>ms</sub>	4,1 kg / s
Efficiency, $\eta_0$	1,7 %
Effective Surface Area, S <sub>d</sub>	0,1255 m <sup>2</sup>
Maximum Displacement, X <sub>max</sub> <sup>4</sup>	14,5 mm
Displacement Volume, V <sub>d</sub>	1820 cm <sup>3</sup>
Voice Coil Inductance, L <sub>e</sub> @ 1 kHz	1,9 mH

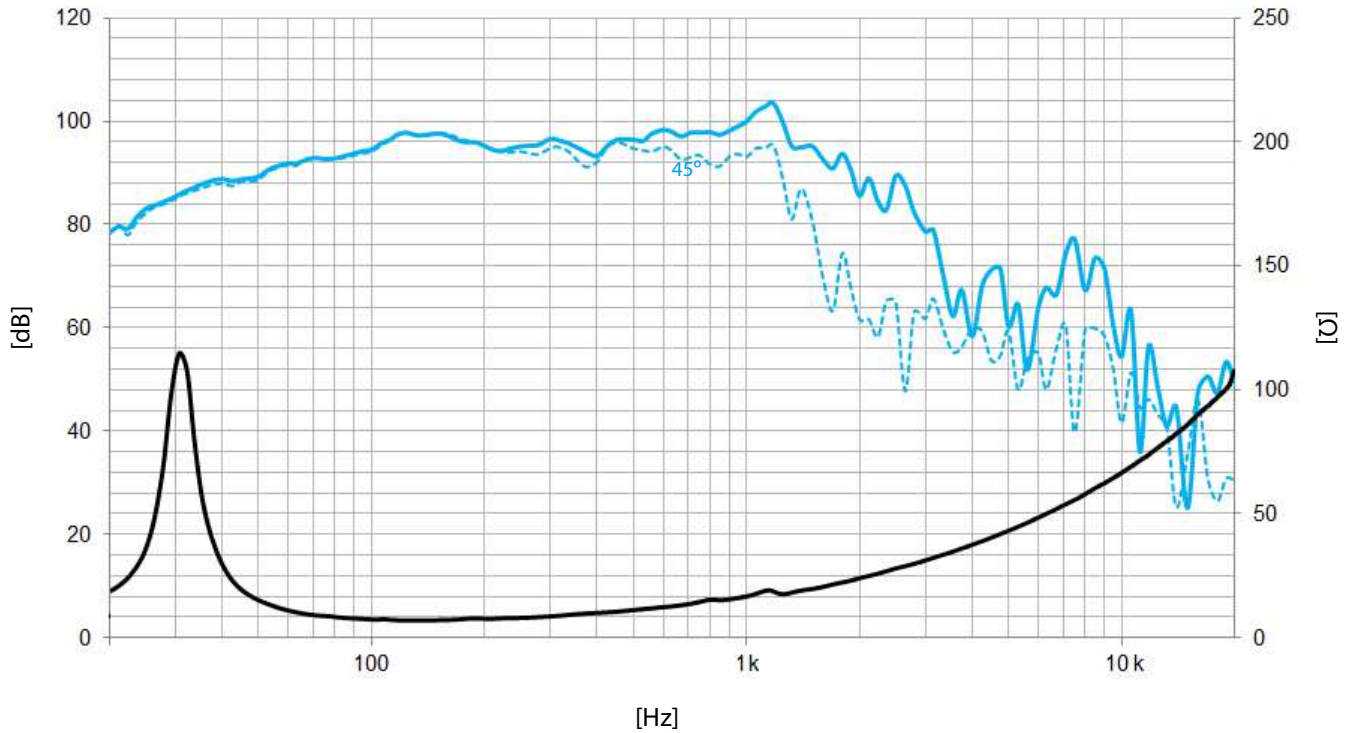
### Notes:

<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.



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

### MOUNTING INFORMATION

Overall diameter	462 mm	18,2 in
Bolt circle diameter	441 mm	17,4 in
Baffle cutout diameter:		
- Front mount	426 mm	16,8 in
Depth	236 mm	9,3 in
Net weight	9,5 kg	20,9 lb
Shipping weight	10,8 kg	23,8 lb

### DIMENSION DRAWING

