

## 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 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	460 mm	18 in
Rated impedance		8 $\Omega$
Minimum impedance		6,5 $\Omega$
Power capacity <sup>1</sup>	1.000 W <sub>AES</sub>	
Program power <sup>2</sup>	2.000 W	
Sensitivity	98 dB	1W / 1zm @ Z <sub>N</sub>
Frequency range	35 - 1.000 Hz	
Recom. enclosure (Bass-reflex design)	V <sub>b</sub> = 200 l F <sub>b</sub> = 39 Hz	
Voice coil diameter	88,9 mm	3,5 in
Bl factor		22 N/A
Moving mass	0,185 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.

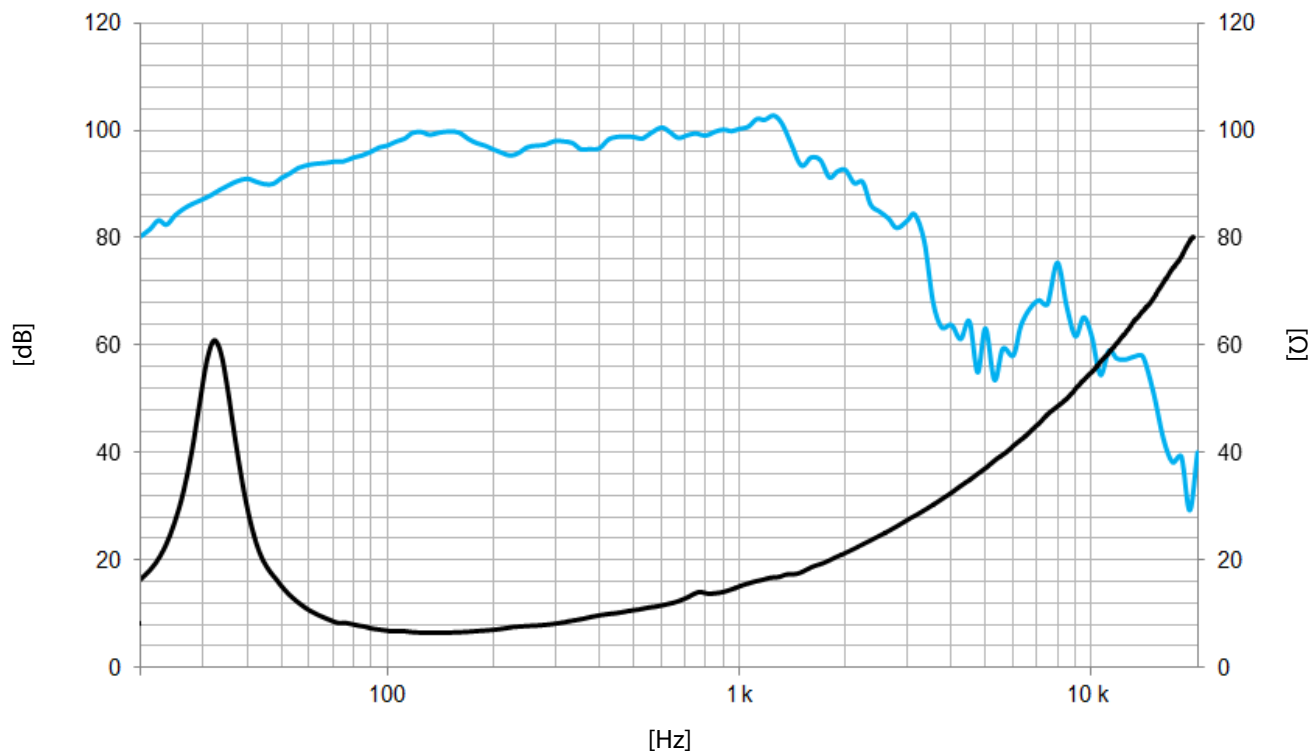
<sup>2</sup> Program power is defined as power capacity + 3 dB.

<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>	34 Hz
D.C. Voice coil resistance, R <sub>e</sub>	5,1 $\Omega$
Mechanical Quality Factor, Q <sub>ms</sub>	5,6
Electrical Quality Factor, Q <sub>es</sub>	0,42
Total Quality Factor, Q <sub>ts</sub>	0,39
Equivalent Air Volume to C <sub>ms</sub> , V <sub>as</sub>	260 l
Mechanical Compliance, C <sub>ms</sub>	117 $\mu$ m / N
Mechanical Resistance, R <sub>ms</sub>	7,1 kg / s
Efficiency, $\eta_0$	2,4 %
Effective Surface Area, S <sub>d</sub>	0,1255 m <sup>2</sup>
Maximum Displacement, X <sub>max</sub> <sup>4</sup>	10 mm
Displacement Volume, V <sub>d</sub>	1255 cm <sup>3</sup>
Voice Coil Inductance, L <sub>e</sub>	1,6 mH



Note: 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	233 mm	9,2 in
Volume displaced by driver	7,0 l	0,25 ft <sup>3</sup>
Net weight	7,3 kg	16,1 lb
Shipping weight	8,6 kg	19,0 lb

### DIMENSION DRAWING

