

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 Ω
Minimum impedance		6,5 Ω
Power capacity ¹	1.000 W _{AES}	
Program power ²	2.000 W	
Sensitivity	98 dB	1W / 1m @ Z _N
Frequency range	35 - 1.000 Hz	
Recom. enclosure (Bass-reflex design)	V _b = 200 l F _b = 39 Hz	
Voice coil diameter	88,9 mm	3,5 in
BI factor		22 N/A
Moving mass	0,185 kg	
Voice coil length	25 mm	
Air gap height	12 mm	
X _{damage} (peak to peak)	65 mm	

Notes:

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

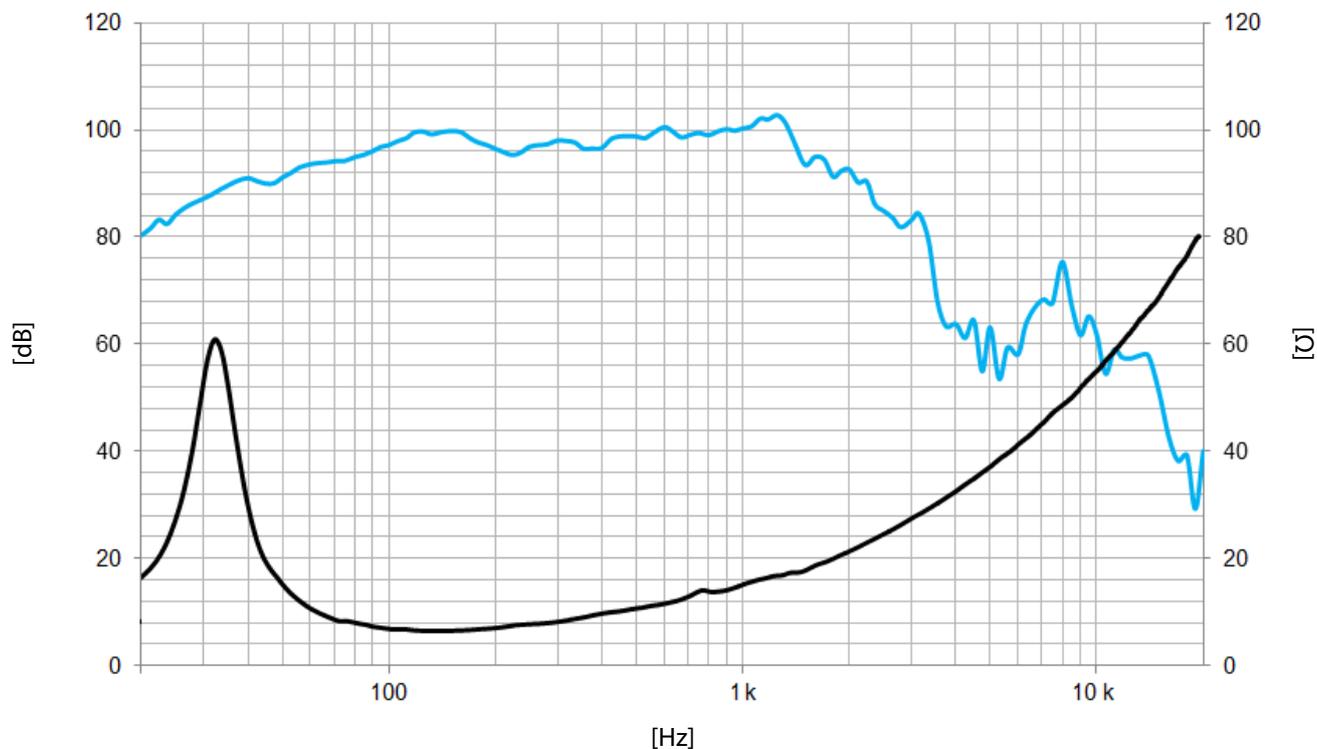
² Program power is defined as power capacity + 3 dB.

³ 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).

⁴ The X_{max} is calculated as (L_{vc} - H_{ag})/2 + (H_{ag}/3,5), where L_{vc} is the voice coil length and H_{ag} is the air gap height.

THIELE-SMALL PARAMETERS³

Resonant frequency, f _s	34 Hz
D.C. Voice coil resistance, R _e	5,1 Ω
Mechanical Quality Factor, Q _{ms}	5,6
Electrical Quality Factor, Q _{es}	0,42
Total Quality Factor, Q _{ts}	0,39
Equivalent Air Volume to C _{ms} , V _{as}	260 l
Mechanical Compliance, C _{ms}	117 μ m / N
Mechanical Resistance, R _{ms}	7,1 kg / s
Efficiency, η_0	2,4 %
Effective Surface Area, S _d	0,1255 m ²
Maximum Displacement, X _{max} ⁴	10 mm
Displacement Volume, V _d	1255 cm ³
Voice Coil Inductance, L _e	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 ³
Net weight	7,3 kg	16,1 lb
Shipping weight	8,6 kg	19,0 lb

DIMENSION DRAWING

