

KEY FEATURES



- High power handling and low distortion 18" 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
- 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 Ω
Minimum impedance		6,7 Ω
Power capacity*	1.600 W _{AES}	
Program power	3.200 W	
Sensitivity	97 dB	1W / 1m @ Z _N
Frequency range	35 - 1.000 Hz	
Voice coil diameter	101,6 mm	4 in
BI factor	25,5 N/A	
Moving mass	0,225 kg	
Voice coil length	35 mm	
Air gap height	14 mm	
X _{damage} (peak to peak)	65 mm	

THIELE-SMALL PARAMETERS**

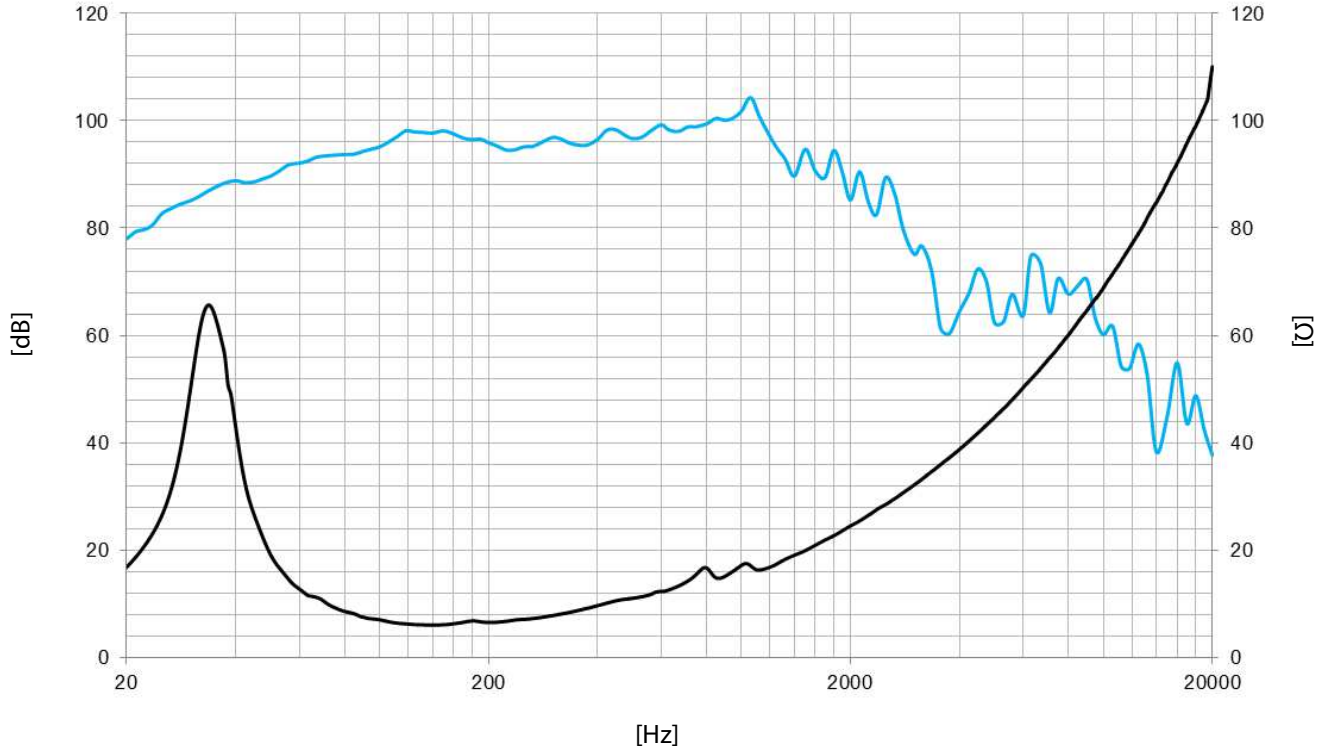
Resonant frequency, f _s	35 Hz
D.C. Voice coil resistance, R _e	5,5 Ω
Mechanical Quality Factor, Q _{ms}	5,4
Electrical Quality Factor, Q _{es}	0,42
Total Quality Factor, Q _{ts}	0,39
Equivalent Air Volume to C _{ms} , V _{as}	205 l
Mechanical Compliance, C _{ms}	92 μ m / N
Mechanical Resistance, R _{ms}	9,2 kg / s
Efficiency, η_0	2 %
Effective Surface Area, S _d	0,1255 m ²
Maximum Displacement, X _{max} ***	14,5 mm
Displacement Volume, V _d	1820 cm ³
Voice Coil Inductance, L _e @ 1 kHz	1,9 mH

Notes:

* The power capacity is determined according to AES2-1984 (r2003) standard. Program power is defined as the transducer's ability to handle normal music program material.

** 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).

*** 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.



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

MOUNTING INFORMATION

Overall diameter	462 mm	18,19 in
Bolt circle diameter	441 mm	17,36 in
Baffle cutout diameter:		
- Front mount	426 mm	16,77 in
Depth	236 mm	9,29 in
Net weight	9,5 kg	20,9 lb
Shipping weight	10,8 kg	23,8 lb

DIMENSION DRAWING

