

KEY FEATURES



- Low distortion 18" subwoofer
- Power handling 1.200 W program power
- Exclusive Malt Cross® Technology Cooling System
- High sensitivity: 98 dB (1W / 1m)
- FEA optimized ferrite magnetic circuit
- Ultra low air noise
- Designed with MMSS technology

- Optimized non-linear behaviour
- Weather resistant cone with treatment on both sides
- 3" copper voice coil
- Optimized pressed steel frame
- Extended controlled displacement: $X_{\max} \pm 8,5$ mm
- 53 mm peak-to-peak excursion before damage
- Optimized for direct radiation subwoofer applications



TECHNICAL SPECIFICATIONS

Nominal diameter	460 mm	18 in
Rated impedance		8 Ω
Minimum impedance		6,4 Ω
Power capacity*	600 W _{AES}	
Program power	1.200 W	
Sensitivity	98 dB	1W / 1m @ Z _N
Frequency range	35 - 1.000 Hz	
Voice coil diameter	76,2 mm	3 in
Bl factor		19 N/A
Moving mass	0,147 kg	
Voice coil length	21,5 mm	
Air gap height	9,5 mm	
X _{damage} (peak to peak)	53 mm	

THIELE-SMALL PARAMETERS**

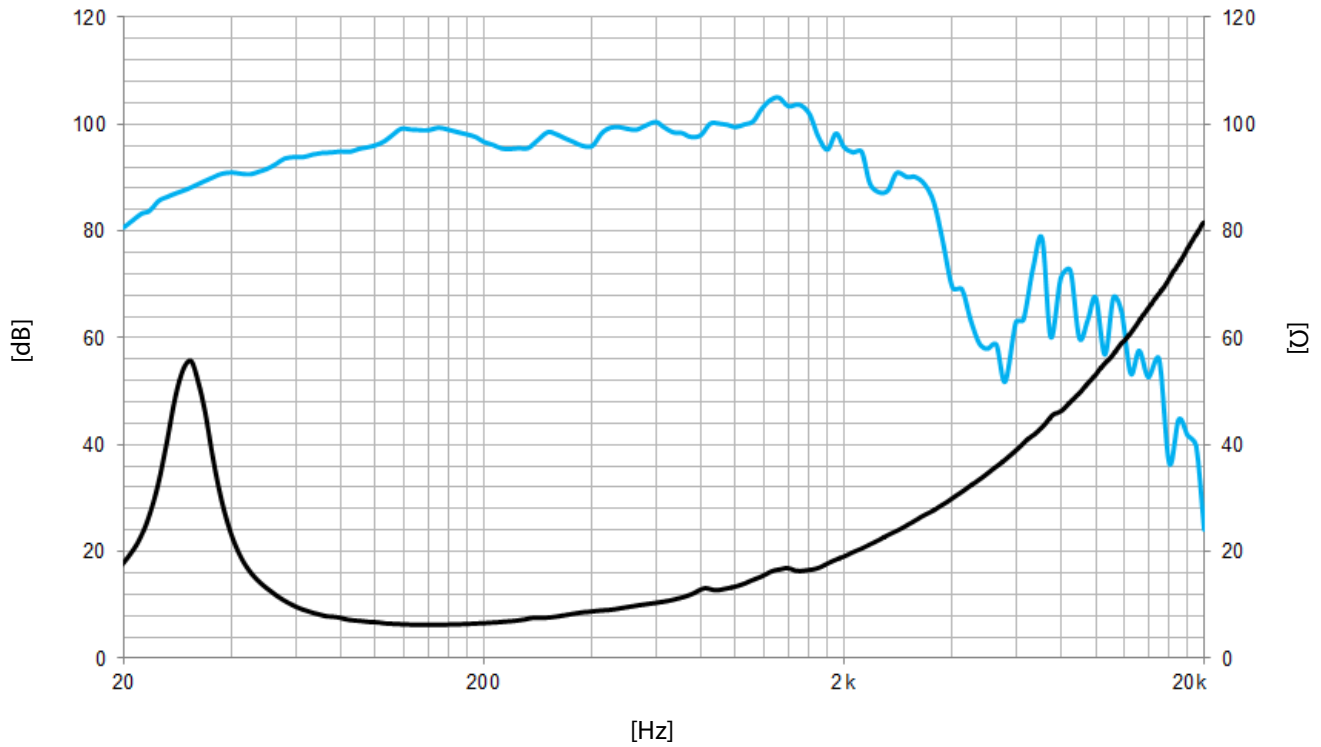
Resonant frequency, f_s	32 Hz
D.C. Voice coil resistance, R_e	5,4 Ω
Mechanical Quality Factor, Q_{ms}	4,8
Electrical Quality Factor, Q_{es}	0,44
Total Quality Factor, Q_{ts}	0,40
Equivalent Air Volume to C_{ms} , V_{as}	372 l
Mechanical Compliance, C_{ms}	167 $\mu\text{m} / \text{N}$
Mechanical Resistance, R_{ms}	6,1 kg / s
Efficiency, η_0	2,7 %
Effective Surface Area, S_d	0,1255 m ²
Maximum Displacement, X_{\max} ***	8,5 mm
Displacement Volume, V_d	1130 cm ³
Voice Coil Inductance, L_e @ 1 kHz	1,5 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	457 mm	17,99 in
Bolt circle diameter	437,5 mm	17,22 in
Baffle cutout diameter:		
- Front mount	425 mm	16,73 in
Depth	218 mm	8,58 in
Net weight	8,7 kg	19,2 lb
Shipping weight	10 kg	22 lb

DIMENSION DRAWING

