

KEY FEATURES

- High power handling: 1000 W program power
- 2,5" copper wire voice coil
- Beyma's Malt Cross® ultimate Cooling System
- Low power compression losses
- High sensitivity: 98,5 dB
- FEA optimized magnetic circuit
- Designed with MMSS technology for high control, linearity and low harmonic distortion. LSI optimized parameters
- Waterproof cone with treatment for both sides of the cone
- Extended controlled displacement: $X_{max} \pm 8$ mm
- Massive mechanical displacement capability: $X_{damage} \pm 40$ mm
- Optimized for 2 or 3 way PA systems and line arrays for ultimate professional applications

TECHNICAL SPECIFICATIONS

Nominal diameter	380 mm	15 in
Rated impedance		8 Ω
Minimum impedance		5,5 Ω
Power capacity*	500 W _{AES}	
Program power	1000 W	
Sensitivity	98,5 dB @ 1W @ 1m @ Z _N	
Frequency range	50 - 5.000 Hz	
Voice coil diameter	63,5 mm	2,5 in
BI factor		18,2 N/A
Moving mass		0,096 kg
Voice coil length		19,5 mm
Air gap height		9,5 mm
X _{damage} (peak to peak)		40 mm

THIELE-SMALL PARAMETERS**

Resonant frequency, f_s	50 Hz
D.C. Voice coil resistance, R_e	5,4 Ω
Mechanical Quality Factor, Q_{ms}	5
Electrical Quality Factor, Q_{es}	0,49
Total Quality Factor, Q_{ts}	0,45
Equivalent Air Volume to C_{ms} , V_{as}	116 l
Mechanical Compliance, C_{ms}	106 $\mu\text{m} / \text{N}$
Mechanical Resistance, R_{ms}	6 kg / s
Efficiency, η_0	2,78 %
Effective Surface Area, S_d	0,088 m ²
Maximum Displacement, X_{max} ***	8 mm
Displacement Volume, V_d	704 cm ³
Voice Coil Inductance, L_e @ 1 kHz	1,1 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).

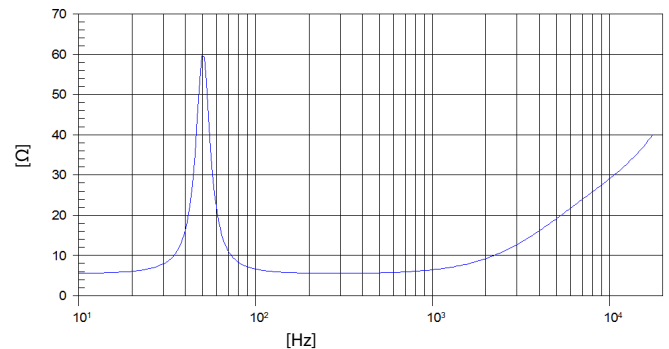
*** The X_{max} is calculated as $(L_{vc} - H_{ag})/2 + (H_{ag}/3,5)$, where L_{vc} is the voice coil length and H_{ag} is the air gap height.



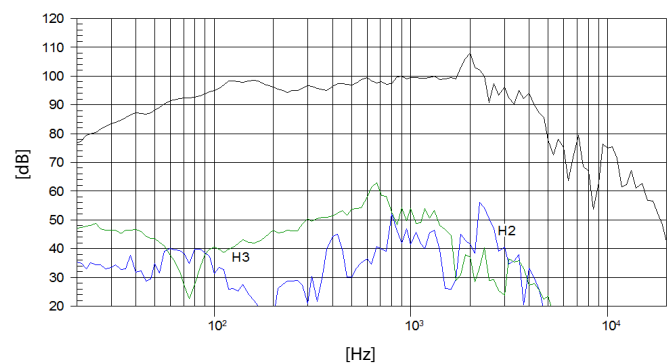
MOUNTING INFORMATION

Overall diameter	388 mm	15,28 in
Bolt circle diameter	370 mm	14,57 in
Baffle cutout diameter:		
- Front mount	349,5 mm	13,76 in
Depth	170 mm	6,7 in
Net weight	6,2 kg	13,67 lb
Shipping weight	7,2 kg	15,87 lb

FREE AIR IMPEDANCE CURVE



FREQUENCY RESPONSE



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