

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: 97 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 | 250 mm | 10 in |
| Rated impedance | | 8 Ω |
| Minimum impedance | | 5,7 Ω |
| Power capacity* | 500 W_{AES} | |
| Program power | | 1000 W |
| Sensitivity | 97 dB @ 1W @ 1m @ Z_N | |
| Frequency range | | 60 - 5.000 Hz |
| Voice coil diameter | 63,5 mm | 2,5 in |
| BI factor | | 18,2 N/A |
| Moving mass | | 0,044 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 | 63 Hz |
| D.C. Voice coil resistance, R_e | 5,5 Ω |
| Mechanical Quality Factor, Q_{ms} | 5 |
| Electrical Quality Factor, Q_{es} | 0,29 |
| Total Quality Factor, Q_{ts} | 0,28 |
| Equivalent Air Volume to C_{ms} , V_{as} | 25 l |
| Mechanical Compliance, C_{ms} | 123 $\mu\text{m} / \text{N}$ |
| Mechanical Resistance, R_{ms} | 3,5 kg / s |
| Efficiency, η_0 | 2,02 % |
| Effective Surface Area, S_d | 0,035 m^2 |
| Maximum Displacement, X_{max} *** | 8 mm |
| Displacement Volume, V_d | 280 cm^3 |
| Voice Coil Inductance, L_e @ 1 kHz | 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).

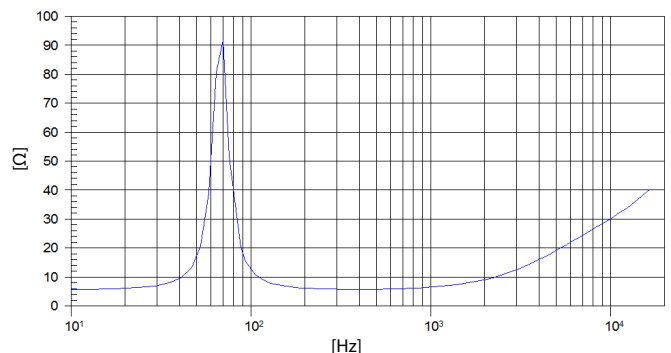
*** The X_{max} is calculated as $(L_{vc} - H_{ag})/2 + (H_{ag}/3,5)$, where L_{vc} is the voice coil length and H_{ag} is the air gap height.



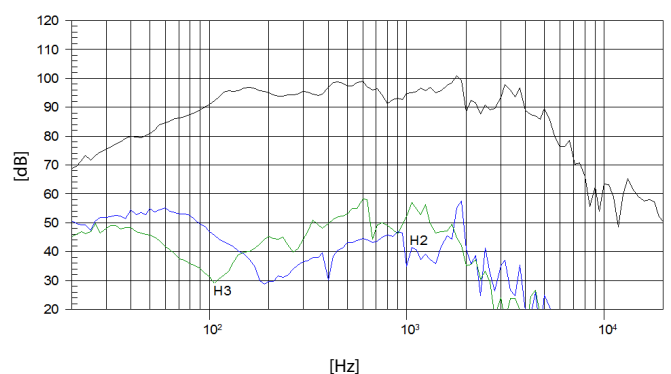
MOUNTING INFORMATION

| | | |
|-------------------------|----------|----------|
| Overall diameter | 261 mm | 10,28 in |
| Bolt circle diameter | 243,5 mm | 9,59 in |
| Baffle cutout diameter: | | |
| - Front mount | 230 mm | 9,06 in |
| Depth | 125 mm | 4,90 in |
| Net weight | 5,7 kg | 12,5 lb |
| Shipping weight | 6,1 kg | 13,45 lb |

FREE AIR IMPEDANCE CURVE



FREQUENCY RESPONSE



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