

### 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 dB
- Optimized pressed steel frame
- 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
- 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		7,1 Ω
Power capacity*	500 W <sub>AES</sub>	
Program power	1.000 W	
Sensitivity	97 dB	1W / 1m @ Z <sub>N</sub>
Frequency range	50 - 4.000 Hz	
Voice coil diameter	63,5 mm	2,5 in
BI factor	16,8	N/A
Moving mass	0,095 kg	
Voice coil length	19,5 mm	
Air gap height	10 mm	
X <sub>damage</sub> (peak to peak)	40 mm	

### THIELE-SMALL PARAMETERS\*\*

Resonant frequency, f <sub>s</sub>	49 Hz
D.C. Voice coil resistance, R <sub>e</sub>	5,8 Ω
Mechanical Quality Factor, Q <sub>ms</sub>	5,7
Electrical Quality Factor, Q <sub>es</sub>	0,62
Total Quality Factor, Q <sub>ts</sub>	0,56
Equivalent Air Volume to C <sub>ms</sub> , V <sub>as</sub>	118,2 l
Mechanical Compliance, C <sub>ms</sub>	108 μm / N
Mechanical Resistance, R <sub>ms</sub>	5,1 kg / s
Efficiency, η <sub>0</sub>	2,25 %
Effective Surface Area, S <sub>d</sub>	0,088 m <sup>2</sup>
Maximum Displacement, X <sub>max</sub> ***	8 mm
Displacement Volume, V <sub>d</sub>	704 cm <sup>3</sup>
Voice Coil Inductance, L <sub>e</sub> @ 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).

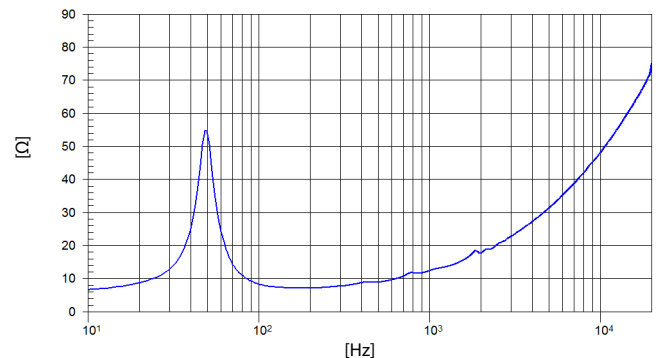
\*\*\* The X<sub>max</sub> is calculated as (L<sub>vc</sub> - H<sub>ag</sub>)/2 + (H<sub>ag</sub>/3,5), where L<sub>vc</sub> is the voice coil length and H<sub>ag</sub> is the air gap height.



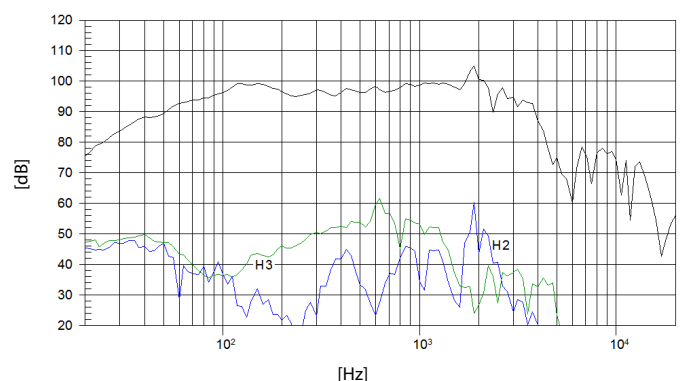
### MOUNTING INFORMATION

Overall diameter	381 mm	15 in
Bolt circle diameter	367 mm	14,49 in
Baffle cutout diameter:		
- Front mount	353 mm	13,90 in
Depth	170 mm	6,69 in
Net weight	6,4 kg	14,11 lb
Shipping weight	7,4 kg	16,12 lb

### FREE AIR IMPEDANCE CURVE



### FREQUENCY RESPONSE & DISTORTION



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