

### 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                   | 300 mm               | 12 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                    |                      | 65 - 5.000 Hz            |
| Voice coil diameter                | 63,5 mm              | 2,5 in                   |
| BI factor                          |                      | 17,2 N/A                 |
| Moving mass                        |                      | 0,062 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>                         | 62 Hz                |
| D.C. Voice coil resistance, R <sub>e</sub>                 | 5,5 Ω                |
| Mechanical Quality Factor, Q <sub>ms</sub>                 | 5,9                  |
| Electrical Quality Factor, Q <sub>es</sub>                 | 0,46                 |
| Total Quality Factor, Q <sub>ts</sub>                      | 0,43                 |
| Equivalent Air Volume to C <sub>ms</sub> , V <sub>as</sub> | 44 l                 |
| Mechanical Compliance, C <sub>ms</sub>                     | 103 μm / N           |
| Mechanical Resistance, R <sub>ms</sub>                     | 4,1 kg / s           |
| Efficiency, η <sub>0</sub>                                 | 2,3 %                |
| Effective Surface Area, S <sub>d</sub>                     | 0,055 m <sup>2</sup> |
| Maximum Displacement, X <sub>max</sub> ***                 | 8 mm                 |
| Displacement Volume, V <sub>d</sub>                        | 440 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).

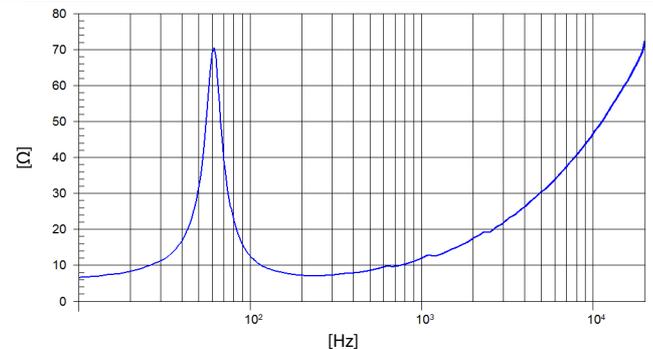
\*\*\* The X<sub>max</sub> is calculated as (L<sub>vc</sub> - H<sub>ag</sub>)/2 + (H<sub>ag</sub>/3,5), where L<sub>vc</sub> is the voice coil length and H<sub>ag</sub> is the air gap height.



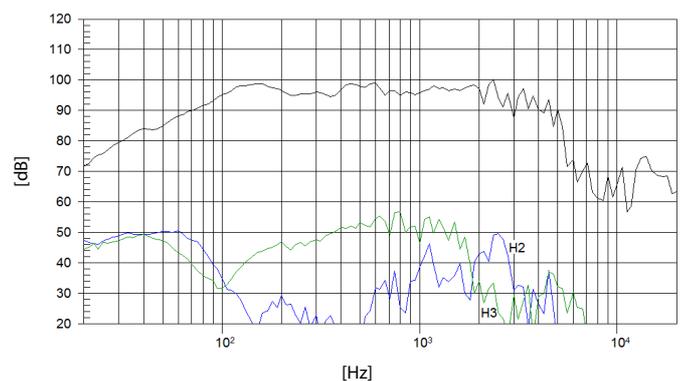
### MOUNTING INFORMATION

|                         |        |          |
|-------------------------|--------|----------|
| Overall diameter        | 306 mm | 12,05 in |
| Bolt circle diameter    | 292 mm | 11,50 in |
| Baffle cutout diameter: |        |          |
| - Front mount           | 280 mm | 11,02 in |
| Depth                   | 140 mm | 5,51 in  |
| Net weight              | 6 kg   | 13,22 lb |
| Shipping weight         | 6,7 kg | 14,77 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