

#### KEY FEATURES

- High power handling: 800 W program power
- 3" copper wire voice coil
- High sensitivity: 97 dB (1W / 1m)
- Optimized pressed steel frame
- FEA optimized ceramic magnetic circuit
- Designed with MMSS technology for high control, linearity and low harmonic distortion
- Waterproof cone treatment on both sides of the cone
- Low harmonic distortion and linear response
- Wide range of applications of low and mid-low frequencies

#### TECHNICAL SPECIFICATIONS

Nominal diameter	300 mm	12 in
Rated impedance		8 $\Omega$
Minimum impedance		7 $\Omega$
Power capacity*	400 W <sub>AES</sub>	
Program power	800 W	
Sensitivity	97 dB	1W / 1m @ Z <sub>N</sub>
Frequency range	45 - 4.000 Hz	
Voice coil diameter	76,2 mm	3 in
BI factor		17,3 N/A
Moving mass	0,060 kg	
Voice coil length	16 mm	
Air gap height	8 mm	
X <sub>damage</sub> (peak to peak)	30 mm	

#### THIELE-SMALL PARAMETERS\*\*

Resonant frequency, f <sub>s</sub>	41 Hz
D.C. Voice coil resistance, R <sub>e</sub>	5,6 $\Omega$
Mechanical Quality Factor, Q <sub>ms</sub>	5,1
Electrical Quality Factor, Q <sub>es</sub>	0,30
Total Quality Factor, Q <sub>ts</sub>	0,28
Equivalent Air Volume to C <sub>ms</sub> , V <sub>as</sub>	97 l
Mechanical Compliance, C <sub>ms</sub>	245 $\mu$ m / N
Mechanical Resistance, R <sub>ms</sub>	3,1 kg / s
Efficiency, $\eta_0$	2,25 %
Effective Surface Area, S <sub>d</sub>	0,053 m <sup>2</sup>
Maximum Displacement, X <sub>max</sub> ***	6,3 mm
Displacement Volume, V <sub>d</sub>	334 cm <sup>3</sup>
Voice Coil Inductance, L <sub>e</sub> @ 1 kHz	1,3 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).

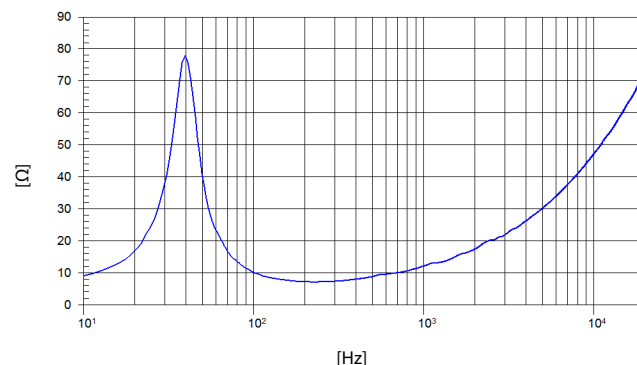
\*\*\* The X<sub>max</sub> is calculated as (L<sub>vc</sub> - H<sub>ag</sub>)/2 + (H<sub>ag</sub>/3,5), where L<sub>vc</sub> is the voice coil length and H<sub>ag</sub> is the air gap height.



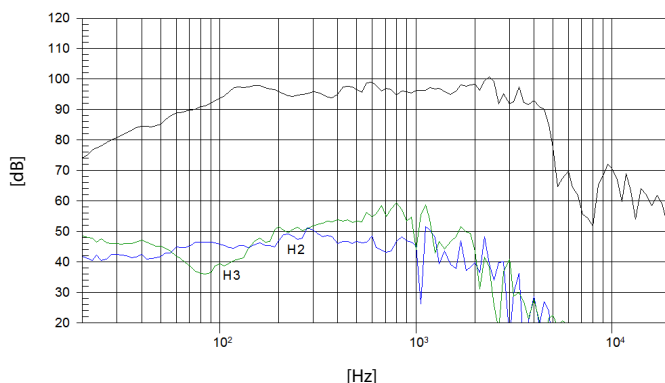
#### MOUNTING INFORMATION

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	130 mm	5,12 in
Net weight	5,5 kg	12,12 lb
Shipping weight	6 kg	13,23 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