

### KEY FEATURES

- 100 W<sub>RMS</sub> program power
- Sensitivity: 91 dB (1W / 1m)
- 2" copper voice coil
- Ferrite magnet
- Extended controlled displacement:  $X_{max} \pm 6,5$  mm
- 31 mm peak-to-peak excursion before damage
- Designed for low frequency reproduction



### TECHNICAL SPECIFICATIONS

Nominal diameter	250 mm	10 in
Rated impedance		8 $\Omega$
Minimum impedance		8,3 $\Omega$
Power capacity <sup>1</sup>		100 W <sub>RMS</sub>
Program power <sup>2</sup>		200 W
Sensitivity	91 dB	1W / 1m @ Z <sub>N</sub>
Frequency range		30 - 5.000 Hz
Recom. enclosure vol.	30 / 100 l	1,1 / 3,5 ft <sup>3</sup>
Voice coil diameter	50,8 mm	2 in
BI factor		10,6 N/A
Moving mass		0,048 kg
Voice coil length		16 mm
Air gap height		7 mm
X <sub>damage</sub> (peak to peak)		31 mm

### THIELE-SMALL PARAMETERS<sup>3</sup>

Resonant frequency, f <sub>s</sub>	31 Hz
D.C. Voice coil resistance, R <sub>e</sub>	6,5 $\Omega$
Mechanical Quality Factor, Q <sub>ms</sub>	3,3
Electrical Quality Factor, Q <sub>es</sub>	0,55
Total Quality Factor, Q <sub>ts</sub>	0,47
Equivalent Air Volume to C <sub>ms</sub> , V <sub>as</sub>	108 l
Mechanical Compliance, C <sub>ms</sub>	536 $\mu$ m / N
Mechanical Resistance, R <sub>ms</sub>	2,9 kg / s
Efficiency, $\eta_0$	0,57 %
Effective Surface Area, S <sub>d</sub>	0,038 m <sup>2</sup>
Maximum Displacement, X <sub>max</sub> <sup>4</sup>	6,5 mm
Displacement Volume, V <sub>d</sub>	240 cm <sup>3</sup>
Voice Coil Inductance, L <sub>e</sub>	1,5 mH

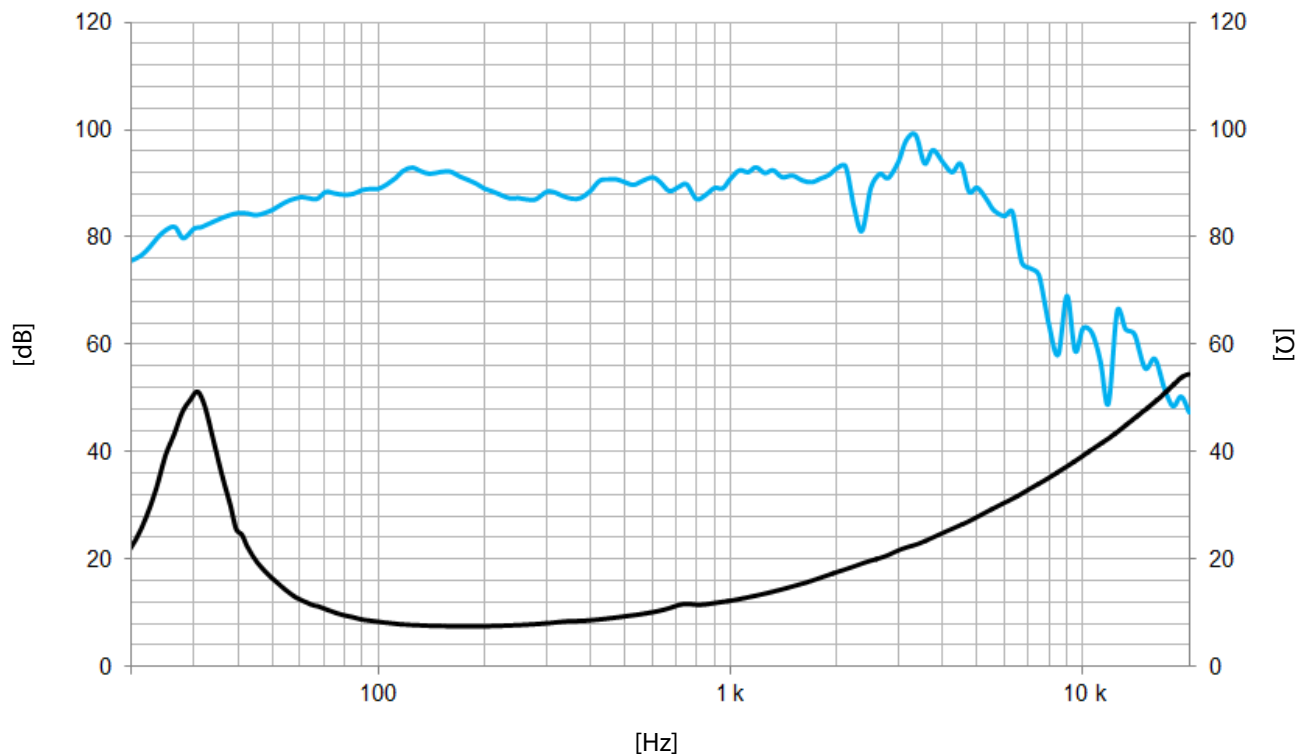
Notes:

<sup>1</sup> The power capacity is determined according to AES2-1984 (r2003) standard.

<sup>2</sup> Program power is defined as power capacity + 3 dB.

<sup>3</sup> 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).

<sup>4</sup> The X<sub>max</sub> is calculated as  $(L_{vc} - H_{ag})/2 + (H_{ag}/3,5)$ , where L<sub>vc</sub> is the voice coil length and H<sub>ag</sub> is the air gap height.



**Note:** Frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1W @ 1m

### MOUNTING INFORMATION

<b>Overall diameter</b>	260,5 mm	10,3 in
<b>Bolt circle diameter</b>	243,5 mm	9,6 in
<b>Baffle cutout diameter:</b>		
- Front mount	228 mm	9,0 in
<b>Depth</b>	117 mm	4,7 in
<b>Net weight</b>	2,9 kg	6,3 lb
<b>Shipping weight</b>	3,3 kg	7,2 lb

### DIMENSION DRAWING

