

## KEY FEATURES

- Power handling: 900 W<sub>AES</sub>
- High sensitivity: 96 dB (1W / 1m)
- FEA optimized neodymium magnetic circuit
- Forced air convection circuit for low power compression
- 4" DUO technology voice coil
- Weatherproof treatment for both sides of the cone
- Double Conex spider technology
- Extended controlled displacement:  $X_{max} \pm 8$  mm
- 52 mm peak-to-peak excursion before damage



## TECHNICAL SPECIFICATIONS

Nominal diameter	300 mm	12 in
Rated impedance		8 $\Omega$
Minimum impedance		6,5 $\Omega$
Power capacity <sup>1</sup>		900 W <sub>AES</sub>
Program power <sup>2</sup>		1.800 W
Sensitivity	96 dB	1W / 1m @ Z <sub>N</sub>
Frequency range		50 - 2.000 Hz
Recom. enclosure vol.	20 / 60 l	0,7 / 2,2 ft <sup>3</sup>
Voice coil diameter	101,6 mm	4 in
BI factor		23,5 N/A
Moving mass		0,100 kg
Voice coil length		21 mm
Air gap height		12 mm
X <sub>damage</sub> (peak to peak)		52 mm

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

Resonant frequency, f <sub>s</sub>	47 Hz
D.C. Voice coil resistance, R <sub>e</sub>	5,1 $\Omega$
Mechanical Quality Factor, Q <sub>ms</sub>	7,9
Electrical Quality Factor, Q <sub>es</sub>	0,27
Total Quality Factor, Q <sub>ts</sub>	0,26
Equivalent Air Volume to C <sub>ms</sub> , V <sub>as</sub>	49 l
Mechanical Compliance, C <sub>ms</sub>	115 $\mu$ m / N
Mechanical Resistance, R <sub>ms</sub>	3,7 kg / s
Efficiency, $\eta_0$	1,8 %
Effective Surface Area, S <sub>d</sub>	0,055 m <sup>2</sup>
Maximum Displacement, X <sub>max</sub> <sup>4</sup>	8 mm
Displacement Volume, V <sub>d</sub>	440 cm <sup>3</sup>
Voice Coil Inductance, L <sub>e</sub>	2 mH

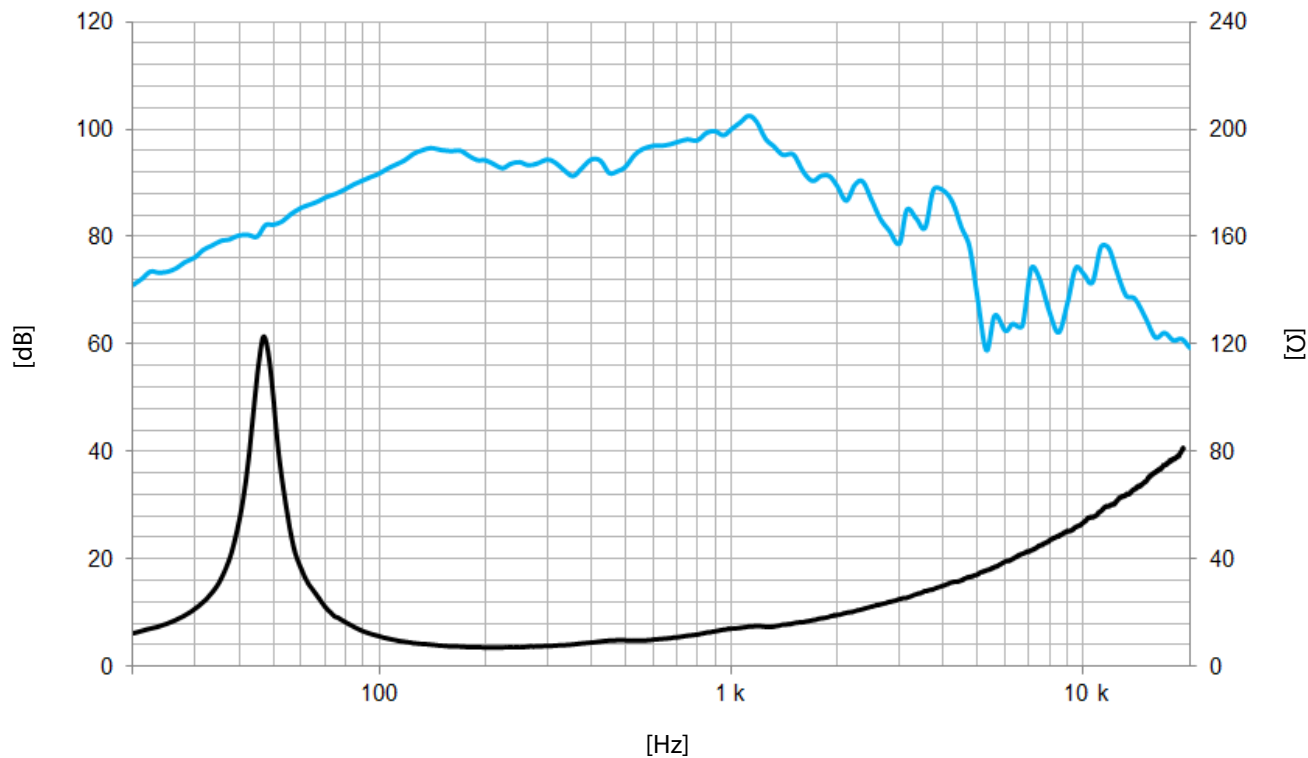
### Notes:

<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>	312 mm	12,3 in
<b>Bolt circle diameter</b>	298 mm	11,7 in
<b>Baffle cutout diameter:</b>		
- Front mount	283 mm	11,1 in
<b>Depth</b>	131 mm	5,2 in
<b>Net weight</b>	5,4 kg	11,9 lb
<b>Shipping weight</b>	6,1 kg	13,4 lb

### DIMENSION DRAWING

