

### KEY FEATURES

- High power handling: 700 W<sub>AES</sub>
- High sensitivity: 96 dB (1W / 1m)
- FEA optimized magnetic circuit
- CONEX spider for higher resistance and consistency
- Weatherproof cone with treatment for both sides of the cone
- 4" DUO double layer in/out voice coil
- Extended controlled displacement: X<sub>max</sub> ± 9 mm
- 47 mm peak-to-peak excursion before damage



### TECHNICAL SPECIFICATIONS

Nominal diameter	300 mm	12 in
Rated impedance		8 Ω
Minimum impedance		7,1 Ω
Power capacity <sup>1</sup>		700 W <sub>AES</sub>
Program power <sup>2</sup>		1.400 W
Sensitivity	96 dB	1W / 1m @ Z <sub>N</sub>
Frequency range		35 - 2.000 Hz
Recom. enclosure (Bass-reflex design)		V <sub>b</sub> = 40 l F <sub>b</sub> = 50 Hz
Voice coil diameter	101,6 mm	4 in
BI factor		20 N/A
Moving mass		0,102 kg
Voice coil length		20 mm
Air gap height		10 mm
X <sub>damage</sub> (peak to peak)		47 mm

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

Resonant frequency, f <sub>s</sub>	49 Hz
D.C. Voice coil resistance, R <sub>e</sub>	5,1 Ω
Mechanical Quality Factor, Q <sub>ms</sub>	15,3
Electrical Quality Factor, Q <sub>es</sub>	0,40
Total Quality Factor, Q <sub>ts</sub>	0,38
Equivalent Air Volume to C <sub>ms</sub> , V <sub>as</sub>	43 l
Mechanical Compliance, C <sub>ms</sub>	99 μm / N
Mechanical Resistance, R <sub>ms</sub>	2,1 kg / s
Efficiency, η <sub>0</sub>	1,2 %
Effective Surface Area, S <sub>d</sub>	0,055 m <sup>2</sup>
Maximum Displacement, X <sub>max</sub> <sup>4</sup>	9 mm
Displacement Volume, V <sub>d</sub>	500 cm <sup>3</sup>
Voice Coil Inductance, L <sub>e</sub> @ 1 kHz	2,1 mH

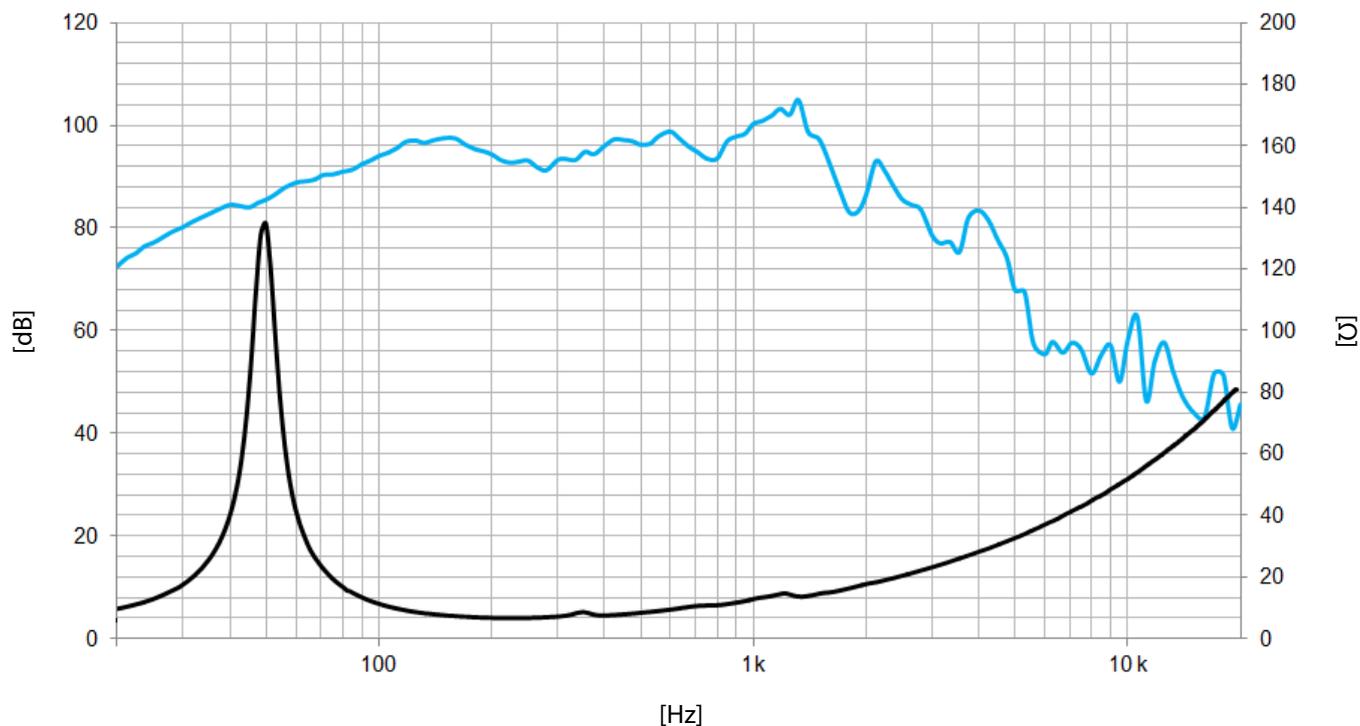
Notes:

<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<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.



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

### MOUNTING INFORMATION

Overall diameter	312 mm	12,3 in
Bolt circle diameter	298 mm	11,7 in
Baffle cutout diameter:		
- Front mount	283 mm	11,1 in
Depth	122 mm	4,8 in
Net weight	9,7 kg	21,4 lb
Shipping weight	10,4 kg	22,9 lb

### DIMENSION DRAWING

