

### KEY FEATURES

- High power handling: 700 W<sub>AES</sub>
- High sensitivity: 98 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:  $X_{\max} \pm 8$  mm
- 47 mm peak-to-peak excursion before damage



### TECHNICAL SPECIFICATIONS

Nominal diameter	460 mm	18 in
Rated impedance		8 $\Omega$
Minimum impedance		6,4 $\Omega$
Power capacity <sup>1</sup>		700 W <sub>AES</sub>
Program power <sup>2</sup>		1.400 W
Sensitivity	98 dB	1W / 1m @ Z <sub>N</sub>
Frequency range		25 - 1.000 Hz
Recom. enclosure		V <sub>b</sub> = 250 l
(Bass-reflex design)		F <sub>b</sub> = 35 Hz
Voice coil diameter	101,6 mm	4 in
BI factor		21,8 N/A
Moving mass		0,215 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>	35 Hz
D.C. Voice coil resistance, R <sub>e</sub>	5,1 $\Omega$
Mechanical Quality Factor, Q <sub>ms</sub>	15,7
Electrical Quality Factor, Q <sub>es</sub>	0,5
Total Quality Factor, Q <sub>ts</sub>	0,48
Equivalent Air Volume to C <sub>ms</sub> , V <sub>as</sub>	236 l
Mechanical Compliance, C <sub>ms</sub>	94,5 $\mu$ m / N
Mechanical Resistance, R <sub>ms</sub>	3,1 kg / s
Efficiency, $\eta_0$	1,9 %
Effective Surface Area, S <sub>d</sub>	0,132 m <sup>2</sup>
Maximum Displacement, X <sub>max</sub> <sup>4</sup>	8 mm
Displacement Volume, V <sub>d</sub>	1056 cm <sup>3</sup>
Voice Coil Inductance, L <sub>e</sub> @ 1 kHz	2,1 mH

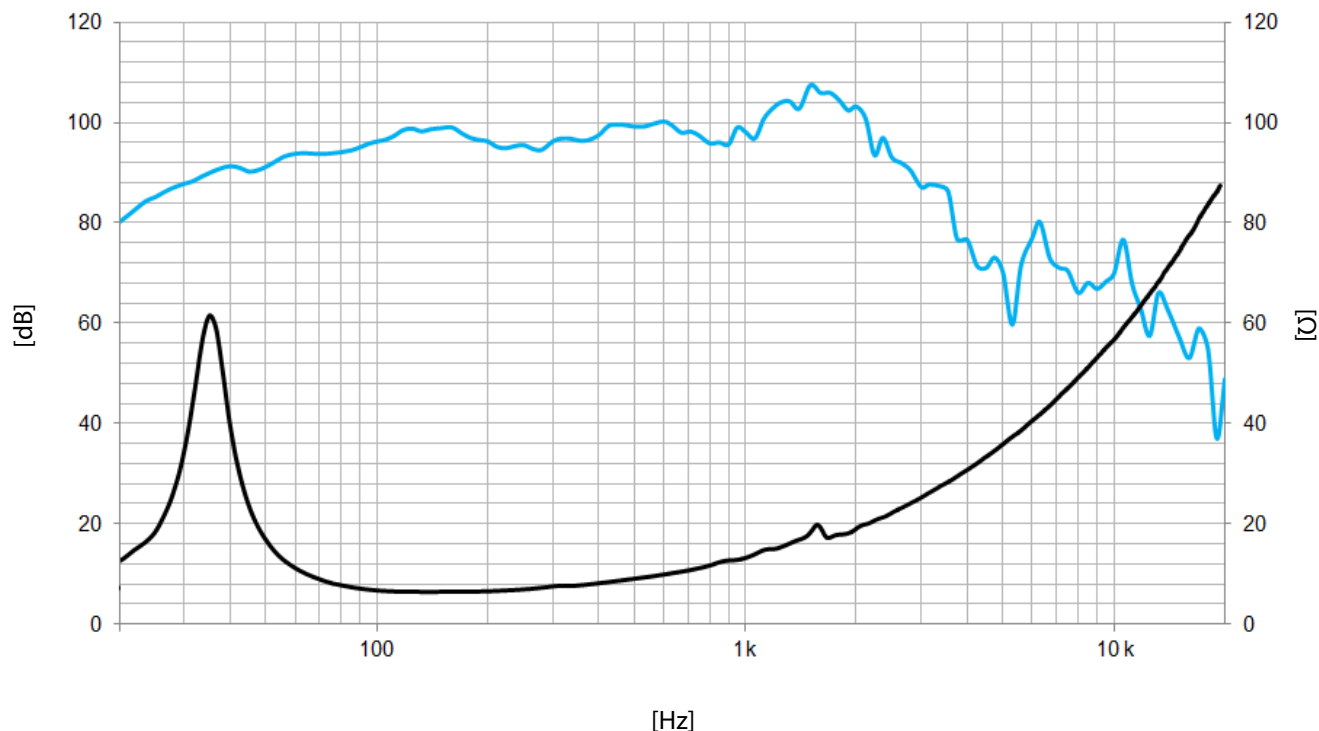
#### Notes:

<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	461 mm	18,2 in
Bolt circle diameter	438 mm	17,2 in
Baffle cutout diameter:		
- Front mount	415 mm	16,4 in
Depth	193 mm	7,6 in
Net weight	11,2 kg	25,8 lb
Shipping weight	12,5 kg	27,5 lb

### DIMENSION DRAWING

