

## KEY FEATURES

- High power handling 18" subwoofer
- High sensitivity: 97 dB (1W / 1m)
- 4,5" edgewound copper voice coil with polyimide fiber glass former

- Weatherproof cone with treatment for both sides
- CONEX spider for higher resistance and consistency
- Extended controlled displacement:  $X_{max} \pm 10$  mm
- 40 mm peak-to-peak excursion before damage
- Designed for high demanding subwoofer and woofer applications



## TECHNICAL SPECIFICATIONS

Nominal diameter	460 mm	18 in
Rated impedance		8 $\Omega$
Minimum impedance		6,8 $\Omega$
Power capacity <sup>1</sup>		900 W <sub>AES</sub>
Program power <sup>2</sup>		1.800 W
Sensitivity	97 dB	1W / 1m @ Z <sub>N</sub>
Frequency range		35 - 1.500 Hz
Recom. enclosure (Bass-reflex design)		V <sub>b</sub> = 200 l F <sub>b</sub> = 50 Hz
Voice coil diameter	114,3 mm	4,5 in
BI factor		23,4 N/A
Moving mass		0,204 kg
Voice coil length		25 mm
Air gap height		12 mm
X <sub>damage</sub> (peak to peak)		40 mm

Notes:

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

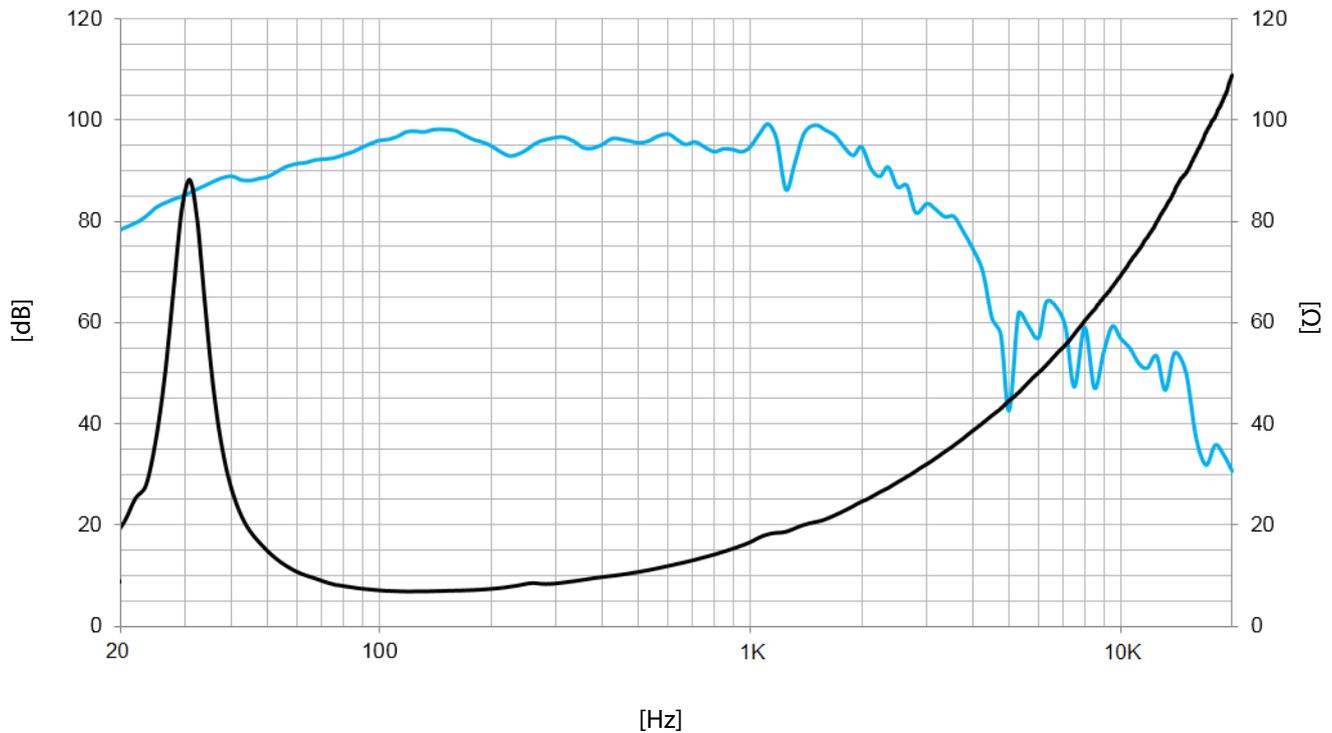
<sup>2</sup> Program power is defined as power capacity + 3 dB.

<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.

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

Resonant frequency, f <sub>s</sub>	33 Hz
D.C. Voice coil resistance, R <sub>e</sub>	5,6 $\Omega$
Mechanical Quality Factor, Q <sub>ms</sub>	7
Electrical Quality Factor, Q <sub>es</sub>	0,42
Total Quality Factor, Q <sub>ts</sub>	0,40
Equivalent Air Volume to C <sub>ms</sub> , V <sub>as</sub>	290 l
Mechanical Compliance, C <sub>ms</sub>	117 $\mu$ m / N
Mechanical Resistance, R <sub>ms</sub>	6 kg / s
Efficiency, $\eta_0$	2,25 %
Effective Surface Area, S <sub>d</sub>	0,1320 m <sup>2</sup>
Maximum Displacement, X <sub>max</sub> <sup>4</sup>	10 mm
Displacement Volume, V <sub>d</sub>	1320 cm <sup>3</sup>
Voice Coil Inductance, L <sub>e</sub>	1,8 mH



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

— Frequency response on axis

## MOUNTING INFORMATION

Overall diameter	461mm	18,19 in
Bolt circle diameter	438 mm	17,24 in
Baffle cutout diameter:		
- Front mount	415 mm	16,4 in
Depth	203 mm	8 in
Net weight	12 kg	26.45 lb
Shipping weight	13,3 kg	29,32 lb

## DIMENSION DRAWING

