

### KEY FEATURES

- High power handling: 2.000 W program power
- 4" voice coil
- High sensitivity: 96 dB (1W / 1m)
- FEA optimized magnetic circuit
- Low power compression losses
- Waterproof cone with treatment for both sides of the cone
- Ultra high excursion capabilities:  $X_{max} \pm 12,5$  mm
- Low frequency extension, deep sound and high control



### TECHNICAL SPECIFICATIONS

Nominal diameter	460 mm	18 in
Rated impedance		8 $\Omega$
Minimum impedance		6,8 $\Omega$
Power capacity <sup>1</sup>		1.000 W <sub>AES</sub>
Program power <sup>2</sup>		2.000 W
Sensitivity	96 dB	1W / 1m @ Z <sub>N</sub>
Frequency range		30 - 2.000 Hz
Recom. enclosure vol.	180 / 250 l	6,5 / 9 ft <sup>3</sup>
Voice coil diameter	101,6 mm	4 in
Bl factor		25 N/A
Moving mass		0,245 kg
Voice coil length		30 mm
Air gap height		12 mm
X <sub>damage</sub> (peak to peak)		55 mm

Notes:

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

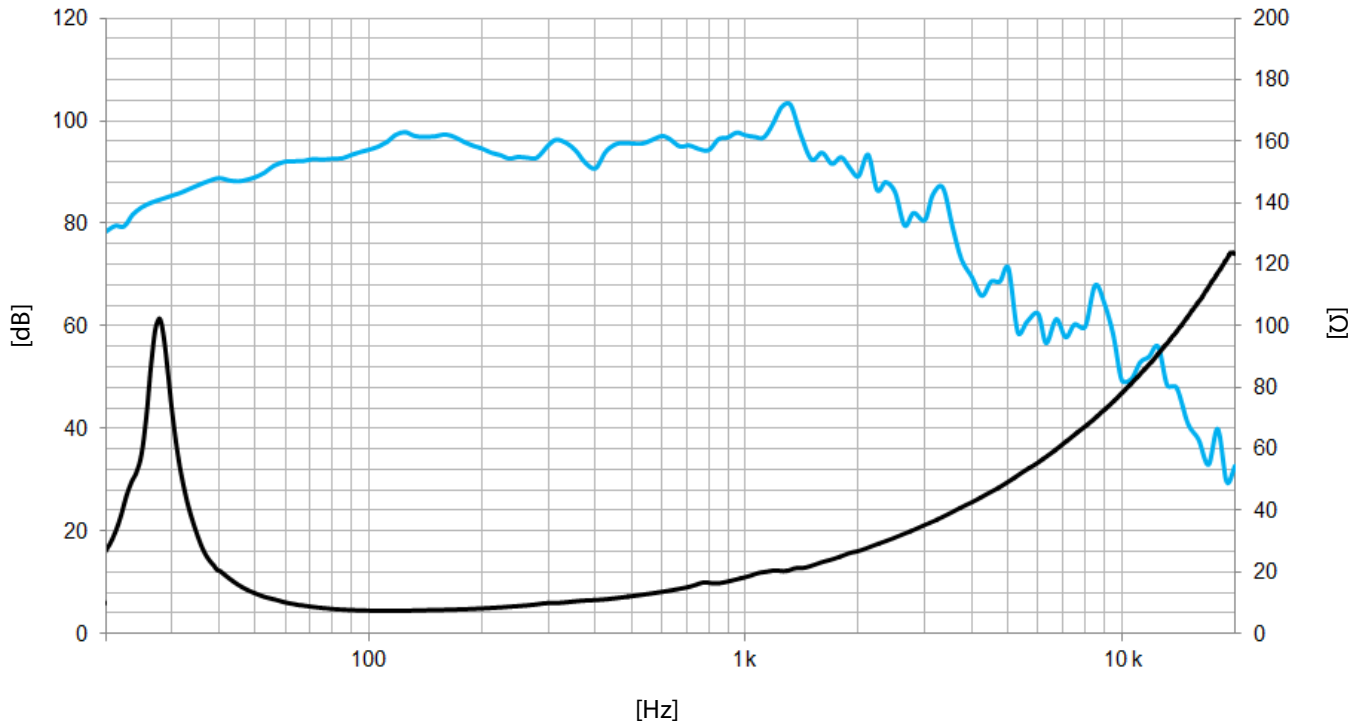
<sup>2</sup> Program power is defined as power capacity + 3 dB.

<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  $(L_{vc} \cdot H_{ag})/2 + (H_{ag}/3,5)$ , where L<sub>vc</sub> is the voice coil length and H<sub>ag</sub> is the air gap height.

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

Resonant frequency, f <sub>s</sub>	27 Hz
D.C. Voice coil resistance, R <sub>e</sub>	6 $\Omega$
Mechanical Quality Factor, Q <sub>ms</sub>	8,2
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>	317 l
Mechanical Compliance, C <sub>ms</sub>	142 $\mu$ m / N
Mechanical Resistance, R <sub>ms</sub>	5,1 kg / s
Efficiency, $\eta_0$	1,5 %
Effective Surface Area, S <sub>d</sub>	0,1255 m <sup>2</sup>
Maximum Displacement, X <sub>max</sub> <sup>4</sup>	12,5 mm
Displacement Volume, V <sub>d</sub>	1.560 cm <sup>3</sup>
Voice Coil Inductance, L <sub>e</sub>	2 mH



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

### MOUNTING INFORMATION

Overall diameter	462 mm	18,2 in
Bolt circle diameter	438 mm	17,3 in
Baffle cutout diameter:		
- Front mount	415 mm	16,3 in
Depth	215 mm	8,4 in
Net weight	13,6 kg	30 lb
Shipping weight	15,1 kg	33,9 lb

### DIMENSION DRAWING

