

### KEY FEATURES



- High power handling: 1.400 W<sub>AES</sub>
- Exclusive Malt Cross® Technology Cooling System
- Low power compression losses
- High sensitivity: 98 dB (1W / 1m)
- FEA optimized ferrite magnetic circuit
- Optimized non-linear parameters

- Weatherproof cone with treatment for both sides of the cone
- 4" DUO double layer in/out copper voice coil
- Aluminium demodulating ring
- Extended controlled displacement:  $X_{\max} \pm 10$  mm
- 55 mm peak-to-peak excursion before damage



### TECHNICAL SPECIFICATIONS

Nominal diameter	460 mm	18 in
Rated impedance		8 $\Omega$
Minimum impedance		5,3 $\Omega$
Power capacity <sup>1</sup>	1.400 W <sub>AES</sub>	
Program power <sup>2</sup>	2.800 W	
Sensitivity	98 dB	1W / 1m @ Z <sub>N</sub>
Frequency range	25 - 1.800 Hz	
Recom. enclosure (Bass-reflex design)	V <sub>b</sub> = 180 l F <sub>b</sub> = 42 Hz	
Voice coil diameter	101,6 mm	4 in
BI factor		29 N/A
Moving mass	0,230 kg	
Voice coil length	25 mm	
Air gap height	12 mm	
X <sub>damage</sub> (peak to peak)	55 mm	

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

Resonant frequency, f <sub>s</sub>	32 Hz
D.C. Voice coil resistance, R <sub>e</sub>	5,1 $\Omega$
Mechanical Quality Factor, Q <sub>ms</sub>	10,2
Electrical Quality Factor, Q <sub>es</sub>	0,28
Total Quality Factor, Q <sub>ts</sub>	0,27
Equivalent Air Volume to C <sub>ms</sub> , V <sub>as</sub>	228,9 l
Mechanical Compliance, C <sub>ms</sub>	103 $\mu$ m / N
Mechanical Resistance, R <sub>ms</sub>	4,6 kg / s
Efficiency, $\eta_0$	2,7 %
Effective Surface Area, S <sub>d</sub>	0,1255 m <sup>2</sup>
Maximum Displacement, X <sub>max</sub> <sup>4</sup>	10 mm
Displacement Volume, V <sub>d</sub>	1251 cm <sup>3</sup>
Voice Coil Inductance, L <sub>e</sub>	1,2 mH

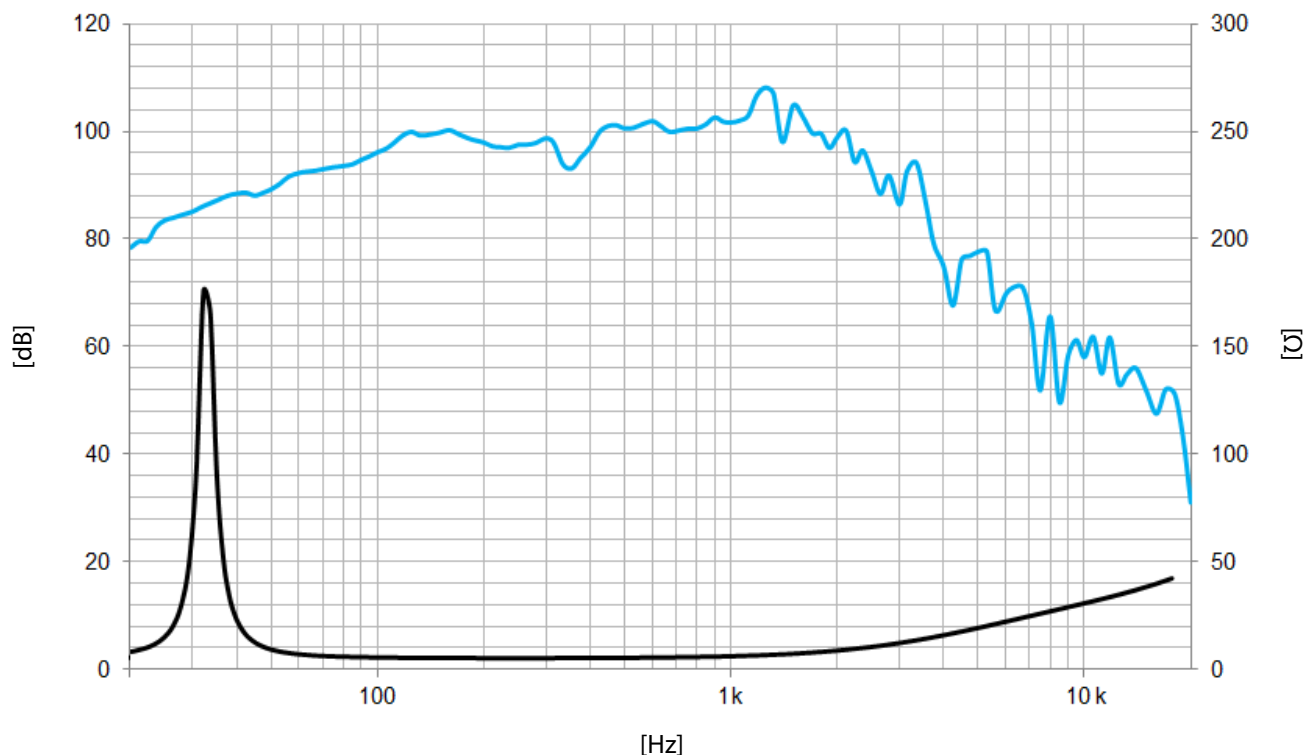
#### Notes:

<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<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:** 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	17,2 in
Baffle cutout diameter:		
- Front mount	415 mm	16,3 in
Depth	210 mm	8,3 in
Net weight	16,9 kg	37,3 lb
Shipping weight	18,1 kg	40,0 lb

### DIMENSION DRAWING

