

### KEY FEATURES



- High power handling: 1.000 W program power
- 2,5" copper wire voice coil
- Malt Cross<sup>®</sup> Cooling System
- Low power compression losses
- High sensitivity: 98 dB
- FEA optimized magnetic circuit
- Aluminium demodulating ring
- Weatherproof cone treatment for both sides of the cone
- Extended controlled displacement:  $X_{\max} \pm 8$  mm
- 40 mm peak-to-peak excursion before damage
- Weight 6,2 kg
- Optimized for 2 or 3 way PA systems and line array for ultimate professional applications



### TECHNICAL SPECIFICATIONS

Nominal diameter	380 mm	15 in
Rated impedance		8 $\Omega$
Minimum impedance		6,9 $\Omega$
Power capacity <sup>1</sup>		500 W <sub>AES</sub>
Program power <sup>2</sup>		1.000 W
Sensitivity	98 dB	1W / 1m @ Z <sub>N</sub>
Frequency range		50 - 4.000 Hz
Recom. enclosure vol.	60 / 150 l	2,1 / 5,2 ft <sup>3</sup>
Voice coil diameter	63,5 mm	2,5 in
Bl factor		18,3 N/A
Moving mass		0,098 kg
Voice coil length		19,5 mm
Air gap height		9,5 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.

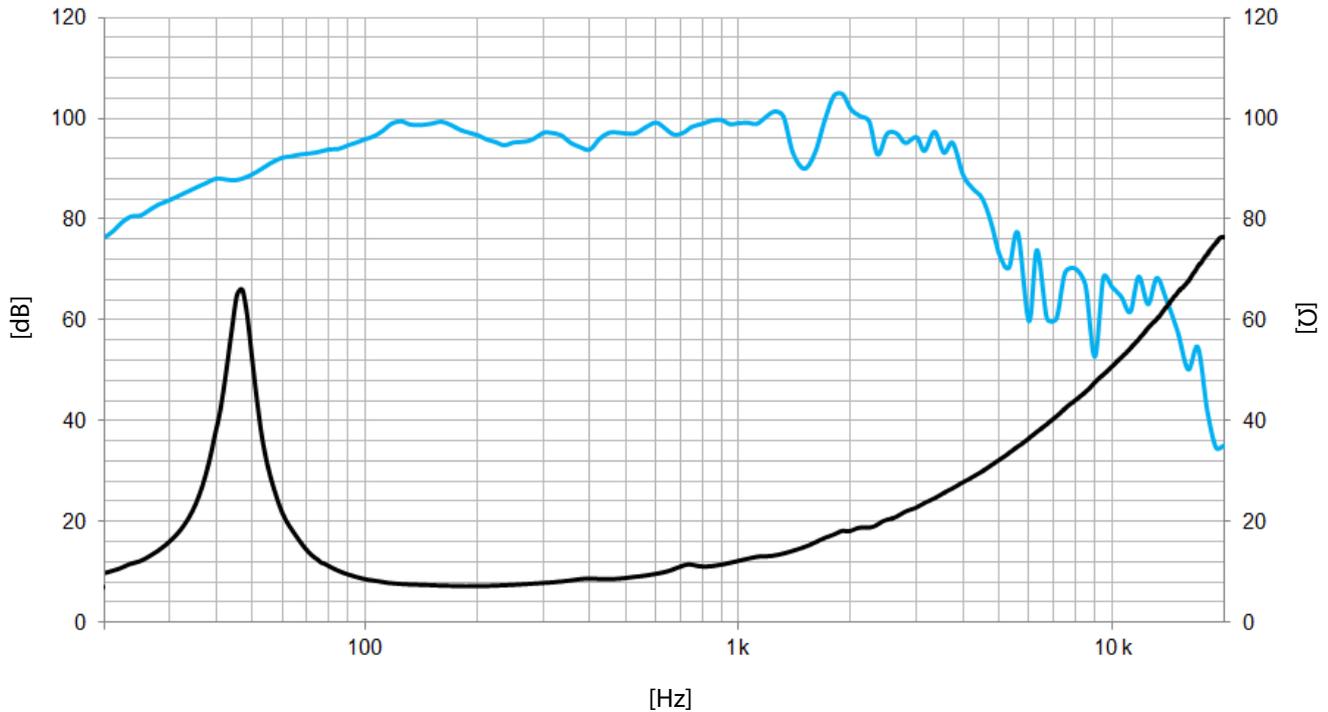
<sup>2</sup> Program power is defined as power capacity + 3 dB.

<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  $X_{\max}$  is calculated as  $(L_{VC} - H_{ag})/2 + (H_{ag}/3,5)$ , where  $L_{VC}$  is the voice coil length and  $H_{ag}$  is the air gap height.

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

Resonant frequency, $f_s$	46 Hz
D.C. Voice coil resistance, $R_e$	5,6 $\Omega$
Mechanical Quality Factor, $Q_{ms}$	7,8
Electrical Quality Factor, $Q_{es}$	0,47
Total Quality Factor, $Q_{ts}$	0,45
Equivalent Air Volume to $C_{ms}$ , $V_{as}$	134 l
Mechanical Compliance, $C_{ms}$	122 $\mu\text{m} / \text{N}$
Mechanical Resistance, $R_{ms}$	3,6 kg / s
Efficiency, $\eta_0$	2,6 %
Effective Surface Area, $S_d$	0,088 m <sup>2</sup>
Maximum Displacement, $X_{\max}^4$	8 mm
Displacement Volume, $V_d$	704 cm <sup>3</sup>
Voice Coil Inductance, $L_e$	1,1 mH



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

### MOUNTING INFORMATION

Overall diameter	388 mm	15,3 in
Bolt circle diameter	370 mm	14,6 in
Baffle cutout diameter:		
- Front mount	349,5 mm	13,8 in
Depth	172 mm	6,8 in
Net weight	6,2 kg	13,7 lb
Shipping weight	7,2 kg	15,9 lb

### DIMENSION DRAWING

