

KEY FEATURES



- High power handling and low distortion 18" subwoofer
- Exclusive Malt Cross® Technology Cooling System
- Low power compression losses
- High sensitivity: 98 dB (1W / 1m)
- FEA optimized ceramic magnetic circuit
- Ultra low air noise
- Optimized linear behaviour

- Weatherproof cone with treatment for both sides
- 3,5" DUO in/out copper voice coil
- Extended controlled displacement: $X_{max} \pm 11$ mm
- 51 mm peak-to-peak excursion before damage
- Optimized for direct radiation and band-pass subwoofer applications



TECHNICAL SPECIFICATIONS

| | | |
|--|--|--------------------------|
| Nominal diameter | 460 mm | 18 in |
| Rated impedance | | 8 Ω |
| Minimum impedance | | 7,2 Ω |
| Power capacity ¹ | 1.000 W _{AES} | |
| Program power ² | 2.000 W | |
| Sensitivity | 98 dB | 1W / 1m @ Z _N |
| Frequency range | 35 - 1.000 Hz | |
| Recom. enclosure (Bass-reflex design) | V _b = 174 l F _b = 37 Hz | |
| Voice coil diameter | 88,9 mm | 3,5 in |
| BI factor | | 23,8 N/A |
| Moving mass | | 0,196 kg |
| Voice coil length | | 27 mm |
| Air gap height | | 12 mm |
| X _{damage} (peak to peak) | | 51 mm |

Notes:

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

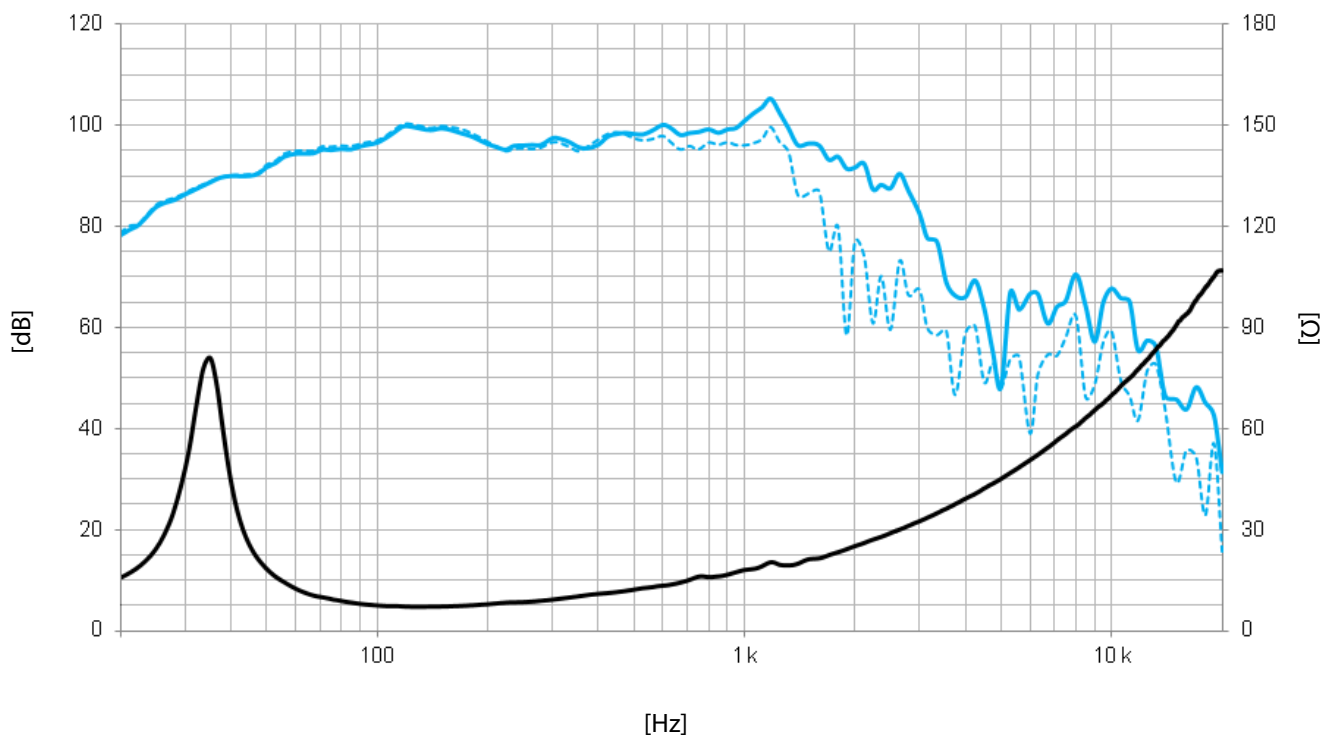
² Program power is defined as power capacity + 3 dB.

³ 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).

⁴ 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 PARAMETERS³

| | |
|--|-----------------------|
| Resonant frequency, f _s | 34 Hz |
| D.C. Voice coil resistance, R _e | 5,4 Ω |
| Mechanical Quality Factor, Q _{ms} | 7,3 |
| Electrical Quality Factor, Q _{es} | 0,39 |
| Total Quality Factor, Q _{ts} | 0,38 |
| Equivalent Air Volume to C _{ms} , V _{as} | 250 l |
| Mechanical Compliance, C _{ms} | 111 μ m / N |
| Mechanical Resistance, R _{ms} | 5,7 kg / s |
| Efficiency, η_0 | 2,4 % |
| Effective Surface Area, S _d | 0,1255 m ² |
| Maximum Displacement, X _{max} ⁴ | 11 mm |
| Displacement Volume, V _d | 1380 cm ³ |
| Voice Coil Inductance, L _e | 1,9 mH |



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

— Frequency response on axis
- - - Frequency response 45° off axis

MOUNTING INFORMATION

| | | |
|----------------------------|---------|----------------------|
| Overall diameter | 462 mm | 18,2 in |
| Bolt circle diameter | 441 mm | 17,4 in |
| Baffle cutout diameter: | | |
| - Front mount | 426 mm | 16,8 in |
| Depth | 224 mm | 8,8 in |
| Volume displaced by driver | 7,5 l | 0,26 ft ³ |
| Net weight | 11,7 kg | 25,7 lb |
| Shipping weight | 13,0 kg | 28,6 lb |

DIMENSION DRAWING

