

#### KEY FEATURES



- High power handling and low distortion 18" subwoofer
- High force factor design for top performance applications
- Exclusive Malt Cross® Technology Cooling System
- Low power compression losses
- High sensitivity: 97 dB (1W / 1m)
- FEA optimized ceramic magnetic circuit
- Aluminium demodulating ring
- Ultra low air noise
- Optimized linear behaviour
- Exclusive NCR membrane (Neck Coupling Reinforcement)
- Weatherproof cone with treatment for both sides
- Double silicone spider
- 4" QUATTRO in/out copper voice coil
- Extended controlled displacement:  $X_{max} \pm 13$  mm
- 60 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 $\Omega$               |
| Minimum impedance                        |  | 6,3 $\Omega$             |
| Power capacity <sup>1</sup>              | 1.600 W <sub>AES</sub>                           |                          |
| Program power <sup>2</sup>               | 3.200 W  |                          |
| Sensitivity                              | 97 dB  | 1W / 1m @ Z <sub>N</sub> |
| Frequency range                          | 30 - 1.000 Hz                                    |                          |
| Recom. enclosure<br>(Bass-reflex design) | V <sub>b</sub> = 125 l<br>F <sub>b</sub> = 39 Hz |                          |
| Voice coil diameter                      | 101,6 mm   | 4 in                     |
| BI factor                                |  | 36,4 N/A                 |
| Moving mass                              |  | 0,323 kg                 |
| Voice coil length                        |  | 32 mm                    |
| Air gap height                           |  | 15 mm                    |
| X <sub>damage</sub> (peak to peak)       |  | 60 mm                    |

Notes:

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

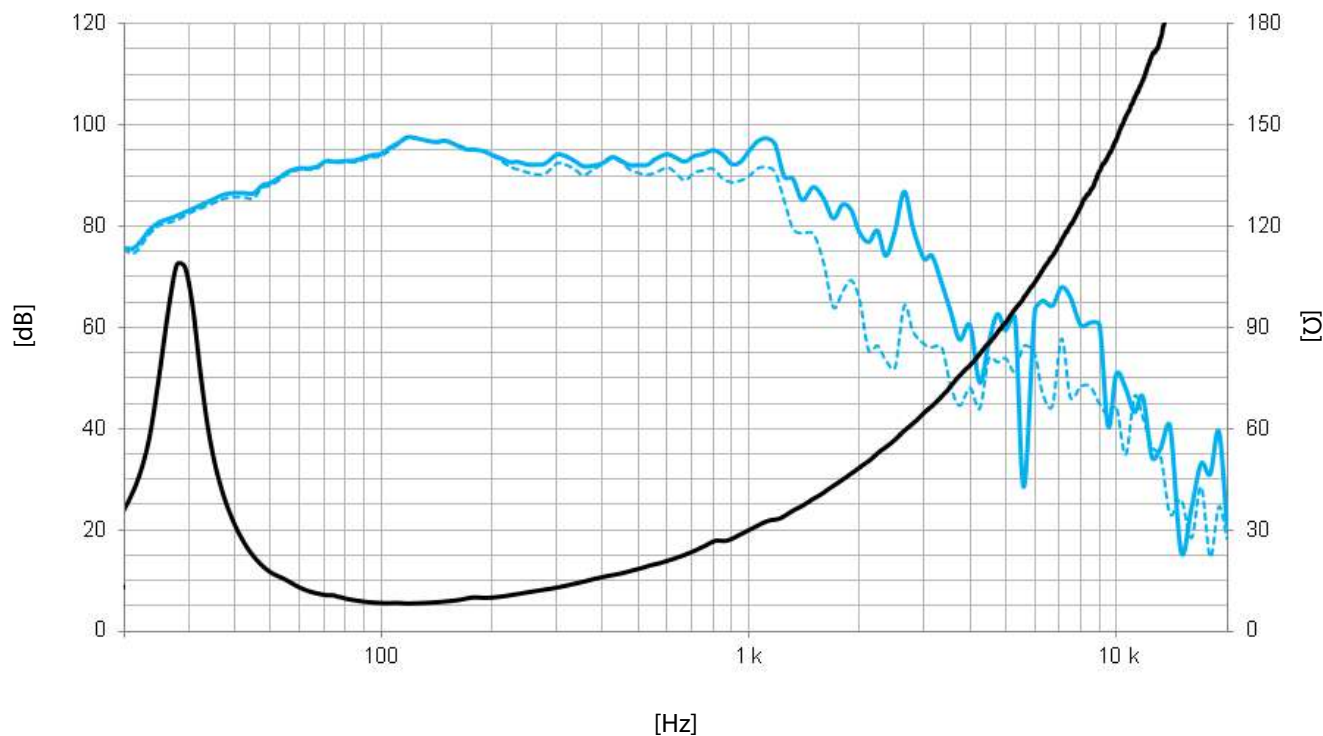
<sup>2</sup> Program power is defined as power capacity + 3 dB.

<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>                         | 30 Hz                 |
| D.C. Voice coil resistance, R <sub>e</sub>                 | 5,3 $\Omega$          |
| Mechanical Quality Factor, Q <sub>ms</sub>                 | 6,5                   |
| Electrical Quality Factor, Q <sub>es</sub>                 | 0,24                  |
| Total Quality Factor, Q <sub>ts</sub>                      | 0,23                  |
| Equivalent Air Volume to C <sub>ms</sub> , V <sub>as</sub> | 195 l                 |
| Mechanical Compliance, C <sub>ms</sub>                     | 88 $\mu$ m / N        |
| Mechanical Resistance, R <sub>ms</sub>                     | 9,3 kg / s            |
| Efficiency, $\eta_0$                                       | 2,1 %                 |
| Effective Surface Area, S <sub>d</sub>                     | 0,1255 m <sup>2</sup> |
| Maximum Displacement, X <sub>max</sub> <sup>4</sup>        | 13 mm                 |
| Displacement Volume, V <sub>d</sub>                        | 1631 cm <sup>3</sup>  |
| Voice Coil Inductance, L <sub>e</sub>                      | 3,9 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                      | 233 mm  | 9,2 in               |
| Volume displaced by driver | 8,0 l   | 0,28 ft <sup>3</sup> |
| Net weight                 | 14,6 kg | 32,1 lb              |
| Shipping weight            | 15,9 kg | 35,0 lb              |

### DIMENSION DRAWING

