

### KEY FEATURES

- High power handling: 400 W<sub>AES</sub>
- 3" copper voice coil
- High sensitivity: 97 dB
- Low harmonic distortion
- Optimum winding length for increased linear excursion
- Extended response in the medium frequency range
- Designed for high power subwoofer applications

### TECHNICAL SPECIFICATIONS

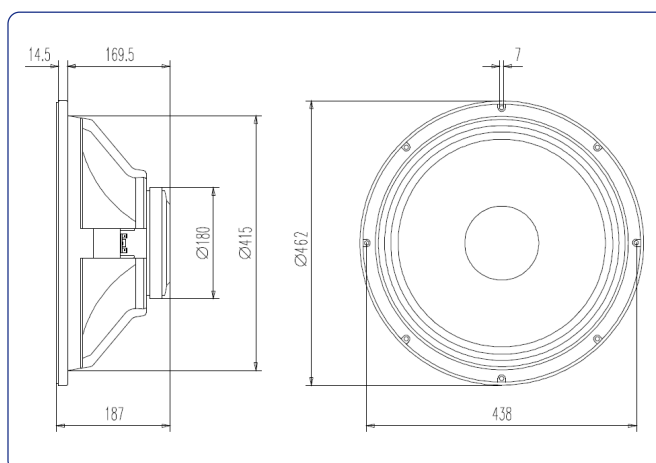
|                                    |                                      |          |
|------------------------------------|--------------------------------------|----------|
| Nominal diameter                   | 460 mm                               | 18 in    |
| Rated impedance                    |                                      | 8 Ω      |
| Minimum impedance                  |                                      | 7,4 Ω    |
| Power capacity*                    | 400 W <sub>AES</sub>                 |          |
| Program power                      | 800 W                                |          |
| Sensitivity                        | 97 dB 1W / 1m @ Z <sub>N</sub>       |          |
| Frequency range                    | 40 - 4.000 Hz                        |          |
| Recom. enclosure vol.              | 60 / 150 l 2,1 / 5,3 ft <sup>3</sup> |          |
| Voice coil diameter                | 77 mm                                | 3 in     |
| Magnetic assembly weight           | 5 kg                                 | 11 lb    |
| BI factor                          |                                      | 18,3 N/A |
| Moving mass                        |                                      | 0,130 kg |
| Voice coil length                  |                                      | 17,5 mm  |
| Air gap height                     |                                      | 7 mm     |
| X <sub>damage</sub> (peak to peak) |                                      | 30 mm    |

### THIELE-SMALL PARAMETERS\*\*

|  |                       |
|--|-----------------------|
| Resonant frequency, f <sub>s</sub>                         | 42 Hz                 |
| D.C. Voice coil resistance, R <sub>e</sub>                 | 6,3 Ω                 |
| Mechanical Quality Factor, Q <sub>ms</sub>                 | 5,5                   |
| Electrical Quality Factor, Q <sub>es</sub>                 | 0,65                  |
| Total Quality Factor, Q <sub>ts</sub>                      | 0,58                  |
| Equivalent Air Volume to C <sub>ms</sub> , V <sub>as</sub> | 206 l                 |
| Mechanical Compliance, C <sub>ms</sub>                     | 110 μm / N            |
| Mechanical Resistance, R <sub>ms</sub>                     | 6,2 kg / s            |
| Efficiency, η <sub>0</sub>                                 | 2,3 %                 |
| Effective Surface Area, S <sub>d</sub>                     | 0,1150 m <sup>2</sup> |
| Maximum Displacement, X <sub>max</sub> ***                 | 7,25 mm               |
| Displacement Volume, V <sub>d</sub>                        | 834 cm <sup>3</sup>   |
| Voice Coil Inductance, L <sub>e</sub>                      | 1,1 mH                |



### DIMENSION DRAWINGS



### 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                   | 187 mm | 7,4 in  |
| Net weight              | 7 kg   | 15,4 lb |
| Shipping weight         | 8 kg   | 17,6 lb |

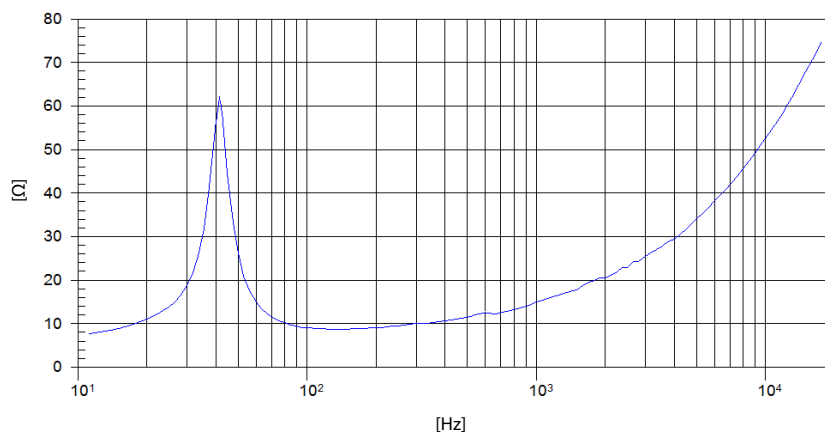
#### Notes:

\* The power capacity is determined according to AES2-1984 (r2003) standard. Program power is defined as the transducer's ability to handle normal music program material.

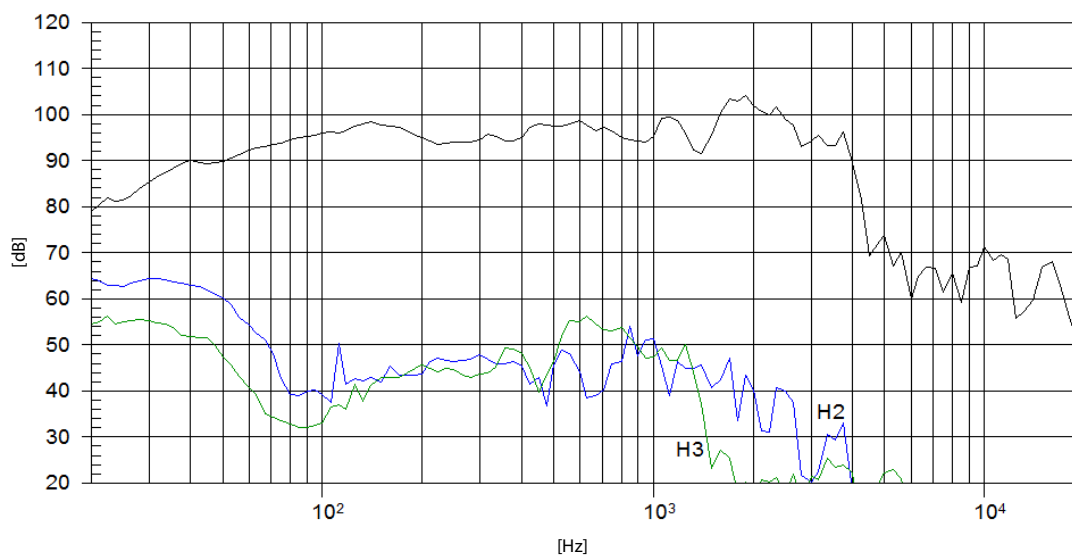
\*\* T-S parameters are measured after an exercise period using a preconditioning power test. The measurements are carried out with a velocity-current laser transducer and will reflect the long term parameters (once the loudspeaker has been working for a short period of time).

\*\*\* 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.

### FREE AIR IMPEDANCE CURVE



### FREQUENCY RESPONSE AND DISTORTION



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