

### 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

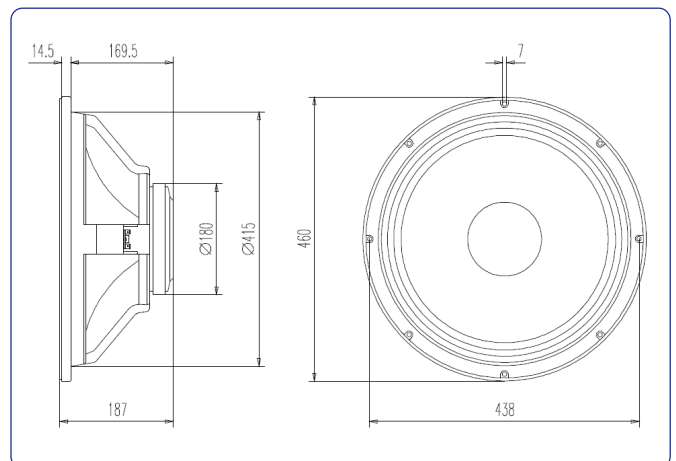
Nominal diameter	460 mm	18 in
Rated impedance		8 Ω
Minimum impedance		7,4 Ω
Power capacity*	400 W <sub>AES</sub>	
Program power	800 W	
Sensitivity	97 dB	1W / 1m @ Z <sub>N</sub>
Frequency range		40 - 4.000 Hz
Recom. enclosure vol.	60 / 150 l	2,1 / 5,3 ft <sup>3</sup>
Voice coil diameter	77 mm	3 in
Magnetic 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	460 mm	18,11 in
Bolt circle diameter	438 mm	17,24 in
Baffle cutout diameter:		
- Front mount	415 mm	16,34 in
Depth	187 mm	7,36 in
Net weight	7 kg	15,43 lb
Shipping weight	8 kg	17,63 lb

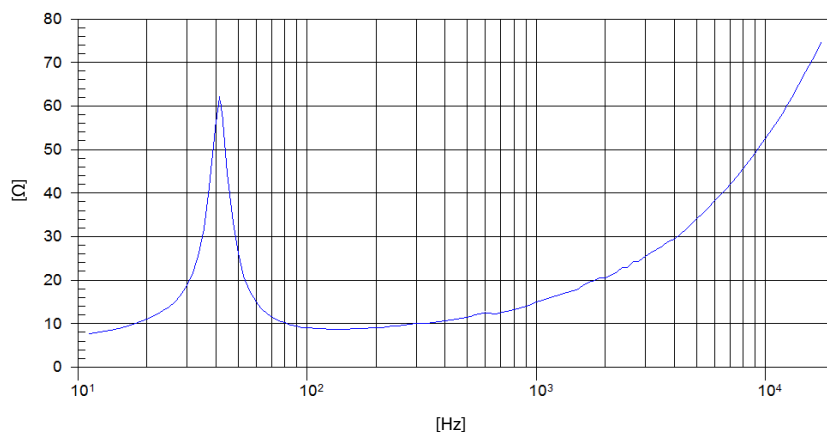
#### Notes:

\* 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.

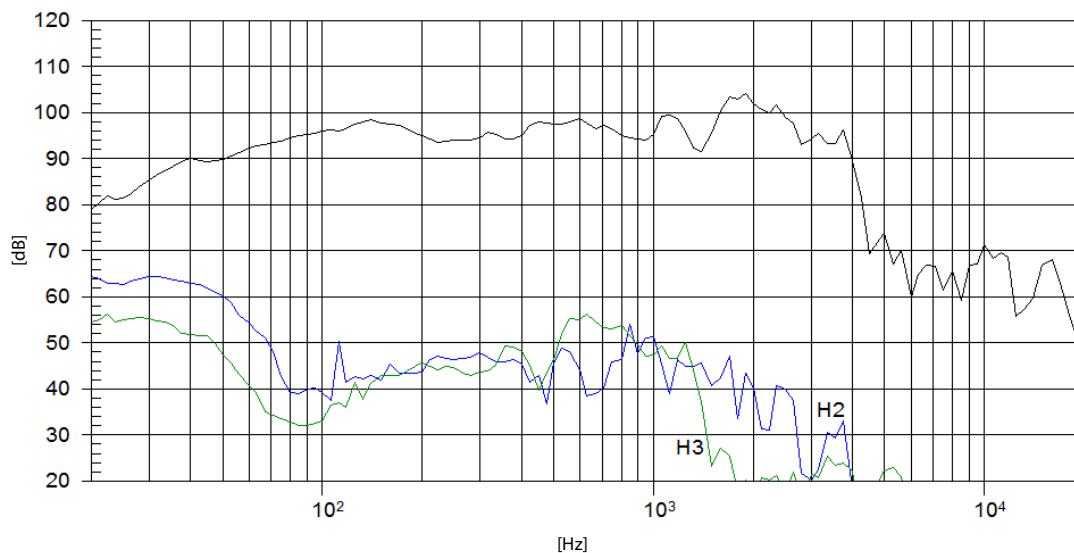
\*\* T-S parameters are measured after an exercise period using a preconditioning power test. The measurements are carried out with a velocity-current laser transducer and will reflect the long term parameters (once the loudspeaker has been working for a short period of time).

\*\*\* 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