

KEY FEATURES



- HELICEX® cooling technology
- 1.600 W_{AES} power handling capacity
- High sensitivity: 97 dB (1W / 1m)
- Low resonant frequency: 32 Hz
- Extended controlled displacement: $X_{max} \pm 10$ mm
- Massive mechanical displacement capability: X_{pp} 60 mm
- Exclusive NCR membrane (Neck Coupling Reinforcement)
- Designed with MMSS technology for high control, symmetry and linearity
- 5" DUO double inner/outer voice coil winding
- CONEX spider with Die Cast Aluminum Ring

TECHNICAL SPECIFICATIONS

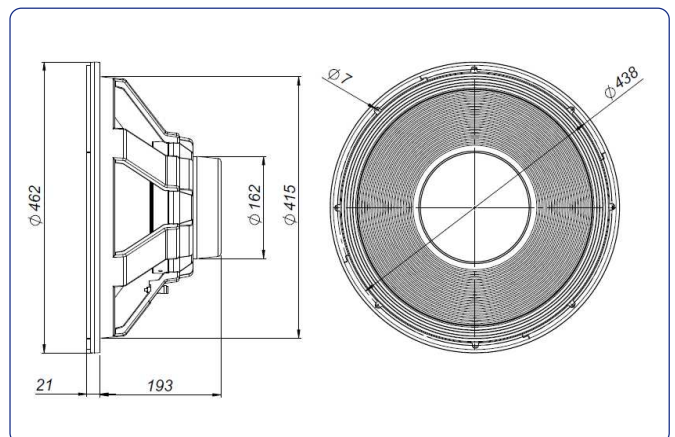
Nominal diameter	460 mm	18 in
Rated impedance		8 Ω
Minimum impedance		6,1 Ω
Power capacity*	1.600 W _{AES}	
Program power		3.200 W
Sensitivity	97 dB	1W / 1m @ Z _N
Frequency range		25 - 1.800 Hz
Recom. enclosure vol.	80 / 200 l	2,8 / 7 ft ³
Voice coil diameter	127 mm	5 in
BI factor		29 N/A
Moving mass		0,260 kg
Voice coil length		25 mm
Air gap height		14 mm
X _{damage} (peak to peak)		60 mm

THIELE-SMALL PARAMETERS**

Resonant frequency, f_s	32 Hz
D.C. Voice coil resistance, R_e	5,5 Ω
Mechanical Quality Factor, Q_{ms}	11,74
Electrical Quality Factor, Q_{es}	0,34
Total Quality Factor, Q_{ts}	0,33
Equivalent Air Volume to C_{ms} , V_{as}	205,7 l
Mechanical Compliance, C_{ms}	94,3 $\mu\text{m} / \text{N}$
Mechanical Resistance, R_{ms}	4,46 kg / s
Efficiency, η_0	1,93 %
Effective Surface Area, S_d	0,1255 m ²
Maximum Displacement, X_{max} ***	10 mm
Displacement Volume, V_d	1164 cm ³
Voice Coil Inductance, L_e @ 1 kHz	3,1 mH



DIMENSION DRAWINGS



MOUNTING INFORMATION

Overall diameter	462 mm	18,19 in
Bolt circle diameter	438 mm	17,24 in
Baffle cutout diameter:		
- Front mount	415 mm	16,34 in
Depth	214 mm	8,43 in
Net weight	11,4 kg	25,1 lb
Shipping weight	13 kg	28,6 lb

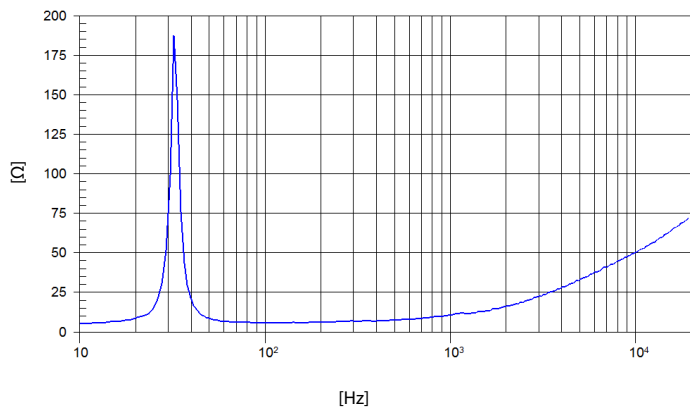
Notes:

* 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.

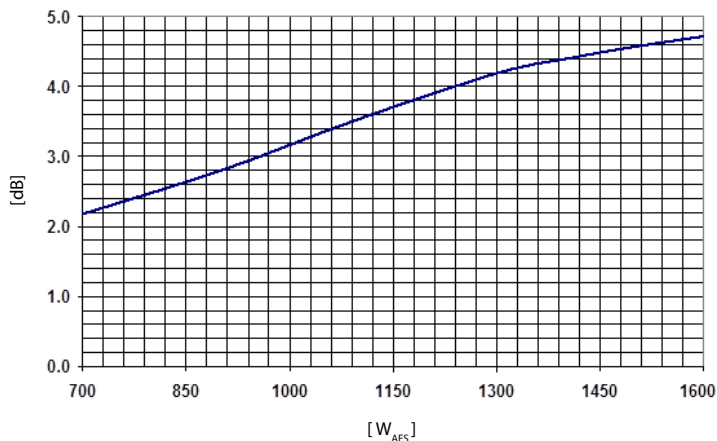
** T-S parameters are measured after an exercise period using a preconditioning power test. The measurements are carried out with a velocity-current laser transducer and will reflect the long term parameters (once the loudspeaker has been working for a short period of time).

*** The X_{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.

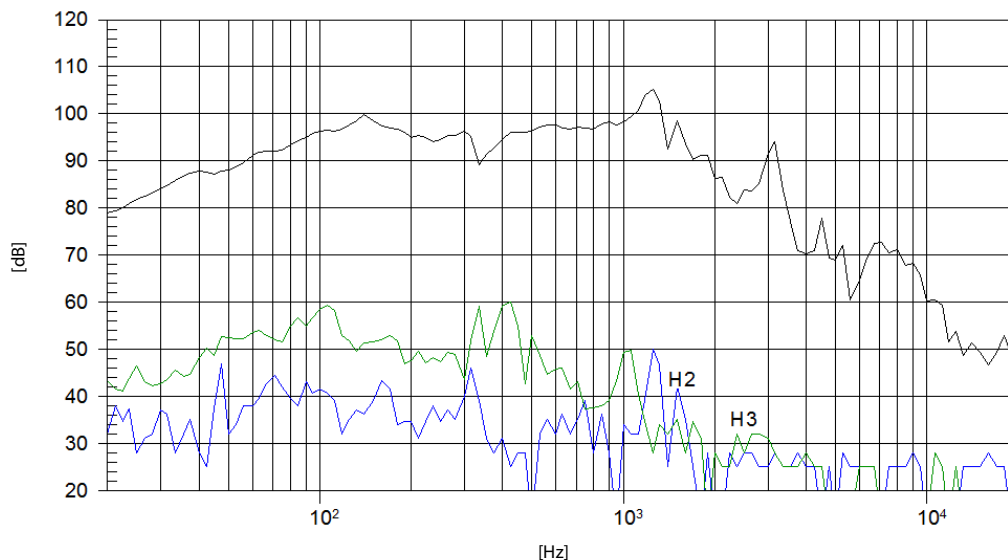
FREE AIR IMPEDANCE CURVE



POWER COMPRESSION LOSSES



FREQUENCY RESPONSE AND DISTORTION



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