

KEY FEATURES



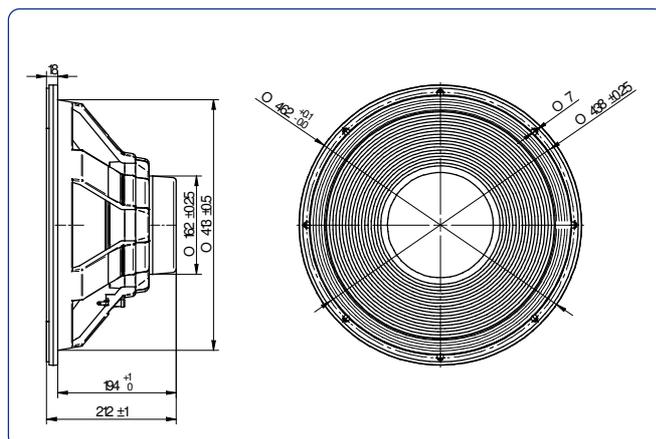
- HELICEX® cooling technology
- 1600W AES power handling capacity
- High sensitivity: 97dB @ 2.83v
- Low resonant frequency: 32 Hz
- Extended controlled displacement: $X_{max} \pm 10$ mm
- Massive mechanical displacement capability: X_{pp} 60mm
- Exclusive NCR membrane (Neck Coupling Reinforcement)
- Designed with MMSS technology
- 5" DUO double inner/outer voice coil winding
- CONEX Spider with Die Cast Aluminum Ring



TECHNICAL SPECIFICATIONS

Nominal diameter	460mm. 18 in.
Rated impedance	8 ohms
Minimum impedance	6.1 ohms
Power capacity*	1600 w AES
Program power	3200 w
Sensitivity	97 dB 2.83v @ 1m @ 2 π
Frequency range	25 - 1800 Hz
Maximum recom. frequency	200 Hz.
Recom. enclosure vol.	80 / 200 l 2.8 / 7 ft. ³
Voice coil diameter	126 mm. 5 in.
Magnetic assembly weight	7.59 kg. 16.7 lb.
BL 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

DIMENSION DRAWINGS



MOUNTING INFORMATION

Overall diameter	462 mm. 18.19 in.
Bolt circle diameter	438 mm. 17.24 in.
Baffle cutout diameter:	
- Front mount	413 mm. 16.26 in.
- Rear mount	418 mm. 16.46 in.
Depth	212 mm. 8.35 in.
Volume displaced by driver	13 l. 0.46 ft. ³
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.

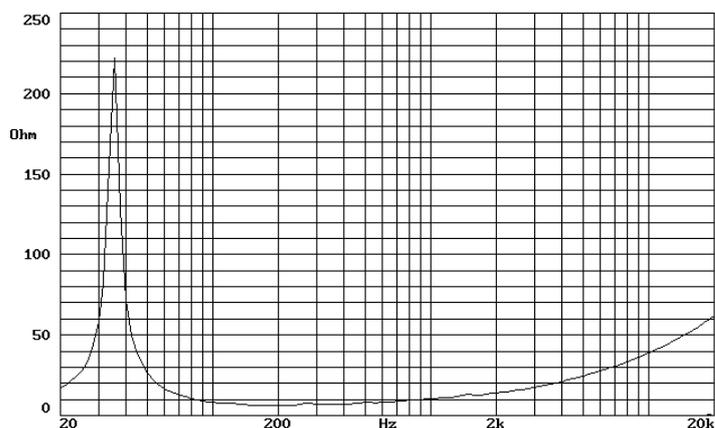
**T-S parameters are measured after an exercise period using a preconditioning power test. The measurements are carried out with a velocity-current laser transducer and will reflect the long term parameters (once the loudspeaker has been working for a short period of time).

***The X_{max} is calculated as $(L_{vc} - Hag)/2 + Hag/3.5$, where L_{vc} is the voice coil length and Hag is the air gap height.

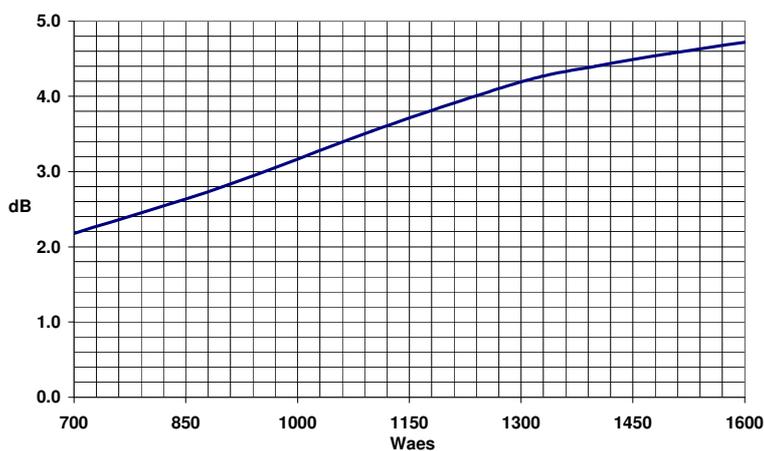
THIELE-SMALL PARAMETERS**

Resonant frequency, f_s	32 Hz
D.C. Voice coil resistance, R_e	5.5 ohms
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 μ m / N
Mechanical Resistance, R_{ms}	4.46 kg / s
Efficiency, η_o (%)	1.93
Effective Surface Area, S_d (m ²)	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

FREE AIR IMPEDANCE CURVE

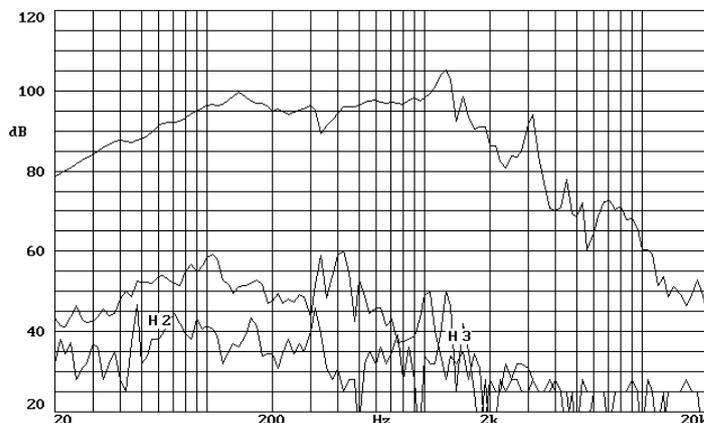


POWER COMPRESSION LOSSES



Note: Power Compression Losses were calculated after 5 minutes period applying a pink noise signal filtered between 25 and 200 Hz.

FREQUENCY RESPONSE AND DISTORTION



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