

## KEY FEATURES



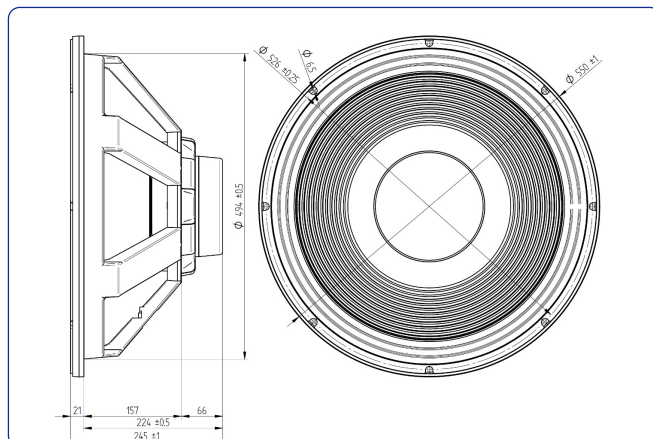
- HELICEX® cooling technology
- 1600W AES power handling capacity
- High sensitivity: 98dB @ 2.83v
- Low resonant frequency: 33Hz
- Extended controlled displacement:  $X_{max} \pm 15$  mm
- Massive mechanical displacement capability:  $X_{pp}$  60mm
- Exclusive NCR membrane (Neck Coupling Reinforcement)
- Designed with MMSS technology
- 5" DUO double inner/outer voice coil winding
- CONEX Spider with Die Cast Aluminum Ring



## TECHNICAL SPECIFICATIONS

Nominal diameter	540mm. 21 in.
Rated impedance	8 ohms
Minimum impedance	6.5 ohms
Power capacity*	1600 w AES
Program power	3200 w
Sensitivity	98 dB 2.83v @ 1m @ 2 $\pi$
Frequency range	25 - 1200 Hz
Maximum Recom. Frequency	200 Hz
Recom. enclosure vol.	100/ 250 l 3.5 / 8.75 ft. <sup>3</sup>
Voice coil diameter	126 mm. 5 in.
Magnetic assembly weight	7.59 kg. 16.7 lb.
BL factor	32 N / A
Moving mass	0.370 kg.
Voice coil length	35 mm
Air gap height	14 mm
X damage (peak to peak)	60 mm

## DIMENSION DRAWINGS



## THIELE-SMALL PARAMETERS\*\*

Resonant frequency, $f_s$	33 Hz
D.C. Voice coil resistance, $R_e$	5.3 ohms
Mechanical Quality Factor, $Q_{ms}$	8.37
Electrical Quality Factor, $Q_{es}$	0.40
Total Quality Factor, $Q_{ts}$	0.38
Equivalent Air Volume to $C_{ms}$ , $V_{as}$	268 l
Mechanical Compliance, $C_{ms}$	62.8 $\mu$ m / N
Mechanical Resistance, $R_{ms}$	9.18 kg / s
Efficiency, $\eta_o$ (%)	2.31
Effective Surface Area, $S_d$ (m <sup>2</sup> )	0.1734 m <sup>2</sup>
Maximum Displacement, $X_{max}$ ***	15 mm
Displacement Volume, $V_d$	2514 cm <sup>3</sup>
Voice Coil Inductance, $L_e$ @ 1 kHz	3.7 mH

## MOUNTING INFORMATION

Overall diameter	550 mm.	21.65 in.
Bolt circle diameter	526 mm.	20.71 in.
<b>Baffle cutout diameter:</b>		
- Front mount	494 mm.	19.45 in.
- Rear mount	511 mm.	20.12 in.
Depth	245 mm.	9.64 in.
Volume displaced by driver	20 l.	0.7 ft. <sup>3</sup>
Net weight	14.9 kg.	32.85lb.
Shipping weight	19.1 kg.	42.02 lb.

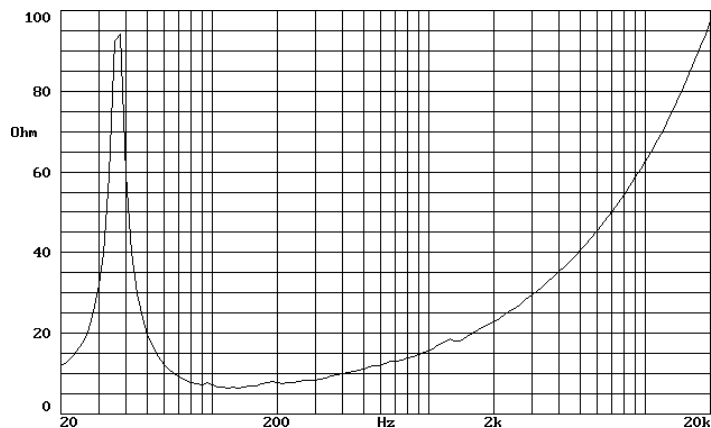
### Notes:

\*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.

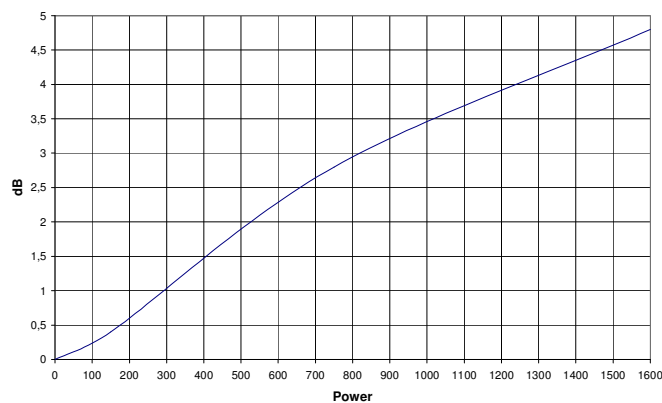
\*\*T-S parameters are measured after an exercise period using a preconditioning power test. The measurements are carried out with a velocity-current laser transducer and will reflect the long term parameters (once the loudspeaker has been working for a short period of time).

\*\*\*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.

## FREE AIR IMPEDANCE CURVE

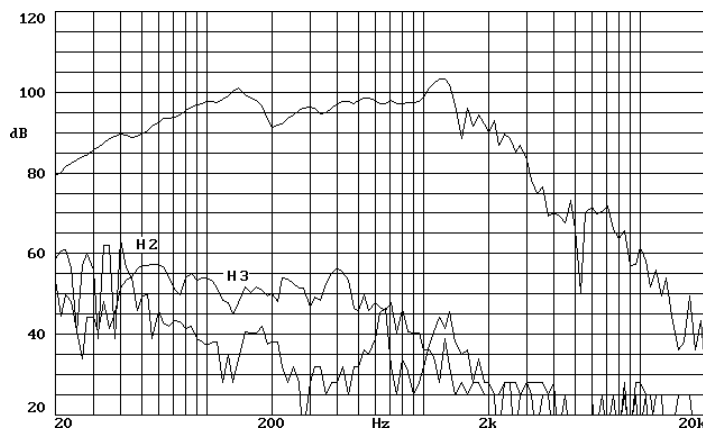


## POWER COMPRESSION LOSSES



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.