

## KEY FEATURES



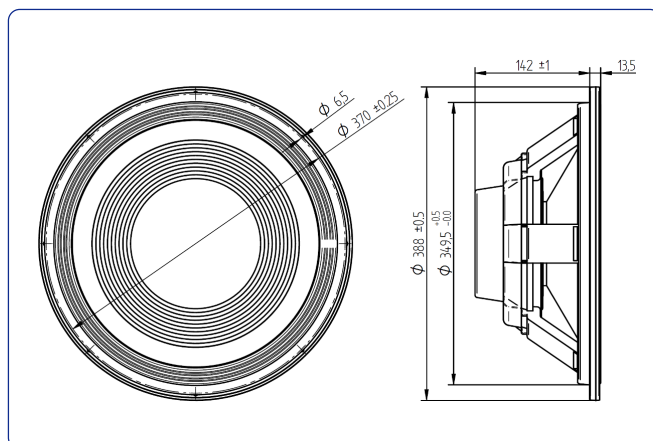
- HELICEX® cooling technology
- 1300W AES power handling capacity
- High sensitivity: 97dB@ 2.83v
- Low resonant frequency: 44Hz
- Extended controlled displacement:  $X_{max} \pm 10$  mm
- Massive mechanical displacement capability:  $X_{pp}$  60mm
- Exclusive NCR membrane (Neck Coupling Reinforcement)
- Designed with MMSS technology
- 4" DUO double inner/outer voice coil winding
- CONEX Spider with Die Cast Aluminum Ring



## TECHNICAL SPECIFICATIONS

Nominal diameter	380mm. 15 in.
Rated impedance	8 ohms
Minimum impedance	5.8 ohms
Power capacity*	1300 w AES
Program power	2600 w
Sensitivity	97 dB 2.83v @ 1m @ 2π
Frequency range	25 - 1800 Hz
Maximum Recom. Frequency	200 Hz
Recom. enclosure vol.	40 / 150 l 1.4 / 5.3 ft. <sup>3</sup>
Voice coil diameter	100 mm. 4 in.
Magnetic assembly weight	6 kg. 13.2 lb.
BL factor	25.1 N / A
Moving mass	0.160 kg.
Voice coil length	25mm
Air gap height	14mm
X damage (peak to peak)	60 mm

## DIMENSION DRAWINGS



## THIELE-SMALL PARAMETERS\*\*

Resonant frequency, $f_s$	44Hz
D.C. Voice coil resistance, $R_e$	5.2 ohms
Mechanical Quality Factor, $Q_{ms}$	14.7
Electrical Quality Factor, $Q_{es}$	0.37
Total Quality Factor, $Q_{ts}$	0.36
Equivalent Air Volume to $C_{ms}$ , $V_{as}$	89.6 l
Mechanical Compliance, $C_{ms}$	81.5 $\mu$ m / N
Mechanical Resistance, $R_{ms}$	3.02 kg / s
Efficiency, $\eta_0$ (%)	1.99
Effective Surface Area, $S_d$ (m <sup>2</sup> )	0.088 m <sup>2</sup>
Maximum Displacement, $X_{max}$ ***	10 mm
Displacement Volume, $V_d$	836cm <sup>3</sup>
Voice Coil Inductance, $L_e$ @ 1 kHz	3.45 mH

## MOUNTING INFORMATION

Overall diameter	388 mm. 15.28 in.
Bolt circle diameter	370 mm. 14.57 in.
Baffle cutout diameter:	
- Front mount	350 mm. 13.78 in.
- Rear mount	355 mm. 13.98 in.
Depth	155 mm. 6.10 in.
Volume displaced by driver	7 l 0.25 ft. <sup>3</sup>
Net weight	7.7 kg. 16.94 lb.
Shipping weight	8.7 kg. 19.14 lb.

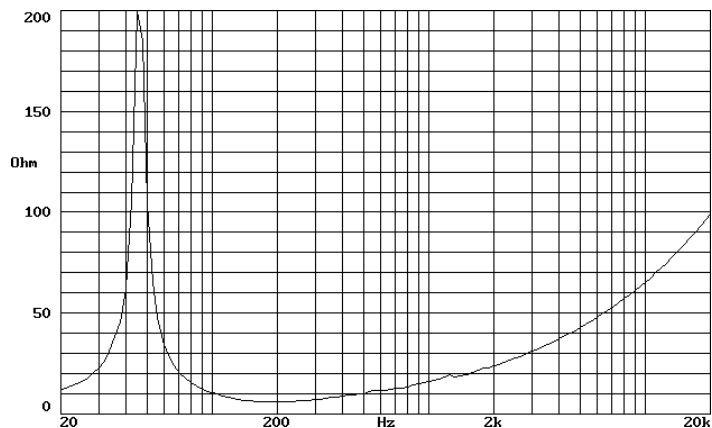
### Notes:

\*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.

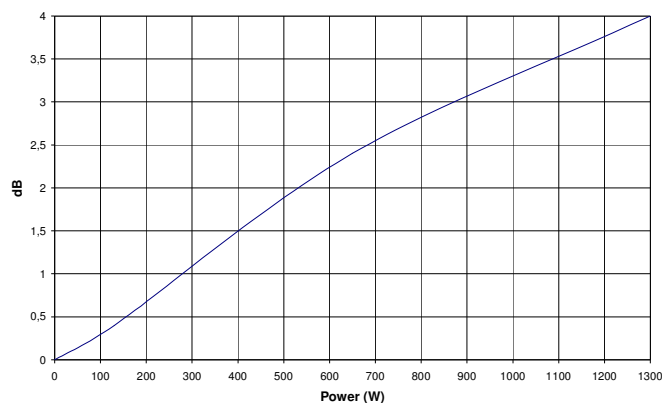
\*\*T-S parameters are measured after an exercise period using a preconditioning power test. The measurements are carried out with a velocity-current laser transducer and will reflect the long term parameters (once the loudspeaker has been working for a short period of time).

\*\*\*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

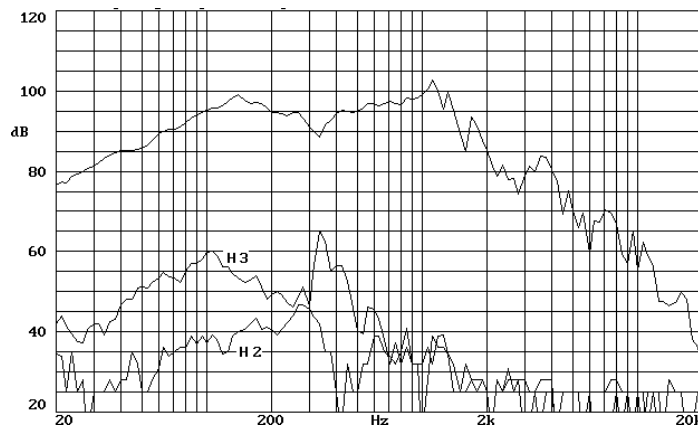


## POWER COMPRESSION LOSSES



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.