

#### KEY FEATURES

- 200 W AES power handling capacity for LF unit
- 40 W AES power handling capacity for HF unit
- High sensitivity: 92 dB (LF) and 102 dB (HF)
- Low Resonant frequency: 65 Hz
- Extended controlled displacement:  $X_{max} \pm 5.1$  mm
- Extended mechanical displacement capability:  $X_{pp}$  18 mm
- CONEX spider
- Designed with *MMSS technology*
- Common Neodymium magnet system for both units
- Low weight and mounting depth
- Excellent off-axis response.  $70^\circ$  conical dispersion.

#### TECHNICAL SPECIFICATIONS

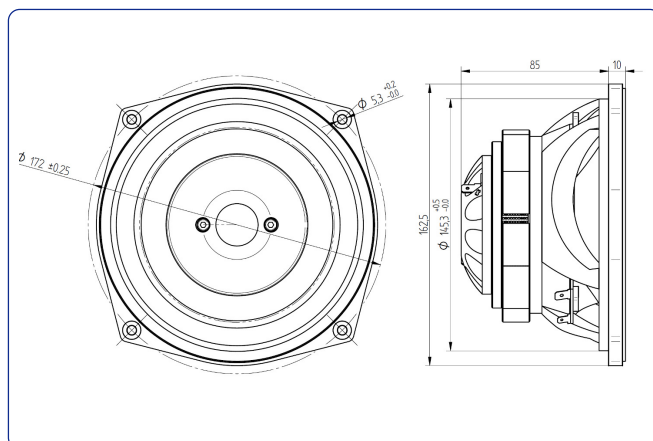
Nominal diameter	165 mm. 6.5 in.
Rated impedance	8 ohms
Minimum impedance	5.9 ohms
Power capacity*(LF/HF)	200 / 40 w AES
Program power(LF/HF)	400 / 80 w
Sensitivity (LF/HF)	92 dB / 102 dB 2.83v @ 1m @ 2 $\pi$
Frequency range	60 - 20000 Hz
Recom. enclosure vol.	6 / 20 l 0.21 / 0.71 ft. <sup>3</sup>
Voice coil diameter	51.7 mm. 2 in.
Magnetic assembly weight	1.2kg. 2.64 lb.
BL factor	10.1 N / A
Moving mass	0.017 kg.
Voice coil length	14 mm
Air gap height	9 mm
X damage (peak to peak)	18 mm

#### THIELE-SMALL PARAMETERS\*\*

Resonant frequency, $f_s$	65 Hz
D.C. Voice coil resistance, $R_e$	5.3 ohms
Mechanical Quality Factor, $Q_{ms}$	3.58
Electrical Quality Factor, $Q_{es}$	0.34
Total Quality Factor, $Q_{ts}$	0.30
Equivalent Air Volume to $C_{ms}$ , $V_{as}$	8.25 l
Mechanical Compliance, $C_{ms}$	324 $\mu$ m / N
Mechanical Resistance, $R_{ms}$	2.01 kg / s
Efficiency, $\eta_0$ (%)	0.74
Effective Surface Area, $S_d$ (m <sup>2</sup> )	0.0135 m <sup>2</sup>
Maximum Displacement, $X_{max}$ ***	5.1 mm
Displacement Volume, $V_d$	68.85 cm <sup>3</sup>
Voice Coil Inductance, $L_e$ @ 1 kHz	0.6 mH



#### DIMENSION DRAWINGS



#### MOUNTING INFORMATION

Overall diameter	162.5 mm. 6.40 in.
Bolt circle diameter	172.5 mm. 6.79 in.
Baffle cutout diameter:	
- Front mount	145.3 mm. 5.72 in.
- Rear mount	145.3 mm. 5.72 in.
Overall Depth	95 mm. 3.74 in.
Mounting Depth	85mm. 3.35 in.
Volume displaced by driver	0.55 l. 0.02 ft. <sup>3</sup>
Net weight	1.9 kg. 4.18 lb.
Shipping weight	2.5 kg. 5.5 lb.

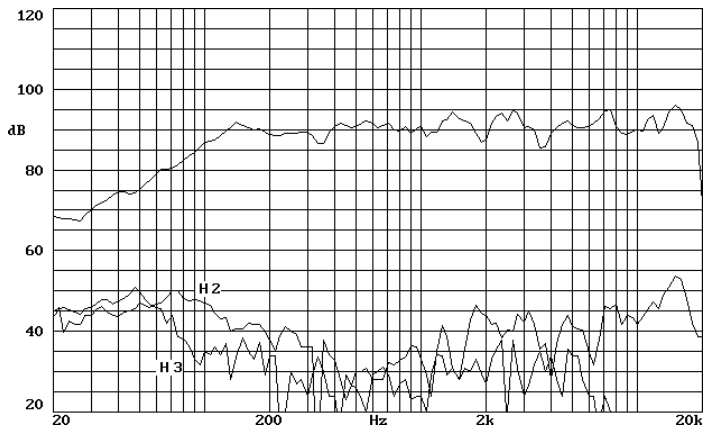
#### Notes:

\*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).

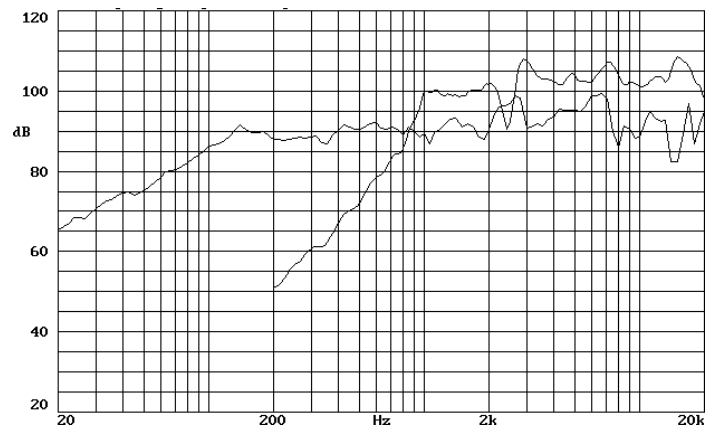
\*\*\*The  $X_{max}$  is calculated as  $(L_{vc} - H_{ag})/2 + H_{ag}/3.5$ , where  $L_{vc}$  is the voice coil length and  $H_{ag}$  is the air gap height.

### FREQUENCY RESPONSE AND DISTORTION



Note: on axis frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1w @ 1m. Crossover frequency set at 3kHz@12dB/oct.

### LF/HF DRIVER RESPONSE



### OFF-AXIS FREQUENCY RESPONSE

