



KEY FEATURES

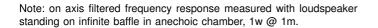
- 10" bass loudspeaker and 1" exit compression driver combination
- High power handling: 250 w AES (L.F. unit) and 40 w AES (H.F. unit)
- Extended and linear frequency response (55-20000 Hz)
- High sensitivity: 98 dB (L.F. unit) and 105 dB (H.F. unit)
- Low weight (neodymium compression driver)
- Bass loudspeaker designed for compact bass-reflex cabinets



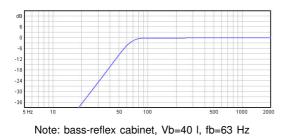
GENERAL DESCRIPTION

This 10" coaxial loudspeaker has been designed in order to achieve an excellent compromise between power handling, efficiency and weight. Its low frequency unit features a 2.5" (62.4 mm) aluminium voice coil which handles 250 w AES, while the high frequency unit features a 1.75" (44.4 mm) edgewound aluminium ribbon voice coil which yields a 40 w AES power handling. The combination of these two drivers give as a result an extended and linear frequency response with low distortion and high efficiency. Moreover, this dual loudspeaker has a relatively low weight (5.1 kg.) that makes easier to fit it with a compact bass-reflex enclosure.

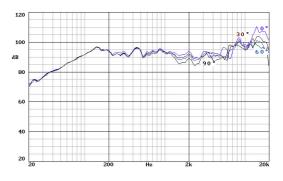
REQUENCY RESPONSE AND DISTORTION CURVES



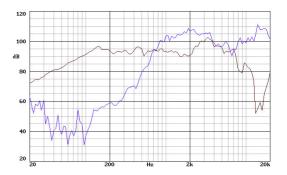
PREDICTED LOW FREQUENCY RESPONSE



FREQUENCY RESPONSE OUT OF AXIS



FREQUENCY RESPONSE OF LF & HF UNITS



Note: on axis frequency response of low and high frequency units, 1w @ 1m.





TECHNICAL SPECIFICATIONS

L.F. UNIT Nominal diameter 250 mm, 10 in. **Rated impedance** 8 ohms. Minimum impedance 7.3 ohms. **Power capacity*** 250 w AES **Program Power** 500 w Sensitivity 98 dB 2.83v @ 1m @ 2π Frequency range 55-8000 Hz Recom. enclosure vol. 20 / 70 I 0.7 / 2.6 ft.3 Voice coil diameter 62.4 mm. 2.5 in. Magnetic assembly weight 4.3 kg. 9.46 lb. **BL** factor 12.5 N/A Moving mass 0.028 kg. Voice coil length 17 mm. Air gap height 7 mm. X damage 24 mm.

H.F. UNIT

Rated impedance Minimum impedance Power capacity Frequency range Sensitivity 1w @ 1m Voice coil diameter Flux density BL factor Dispersion 16 ohms. 10.9 ohms.@ 4.5 kHz 40 w AES above 1.5 kHz 0.7 - 20 kHz 105 dB 44.4 mm. 1.75 in. 1.8 T 10.5 N/A 90° conical

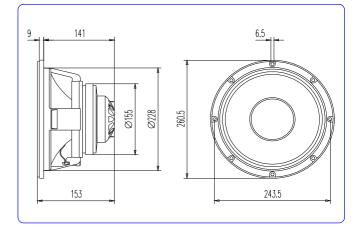
THIELE-SMALL PARAMETERS

Resonant frequency, fs	53 Hz
D.C. Voice coil resistance, Re	6.3 ohms.
Mechanical Quality Factor, Qms	10
Electrical Quality Factor, Qes	0.38
Total Quality Factor, Qts	0.36
Equivalent Air Volume to Cms, Vas	66 I
Mechanical Compliance, Cms	322 µ m / N
Mechanical Resistance, Rms	0.93 kg / s
Efficiency, ηο (%)	2.5
Effective Surface Area, Sd (m ²)	0.0380 m ²
Maximum Displacement, Xmax	5 mm
Displacement Volume, Vd	190 cm ³
Voice Coil Inductance, Le @ 1 kHz	1.5 mH

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

DIMENSION DRAWINGS



MATERIALS

L.F. UNIT

- Basket: Die cast aluminium
- Cone: Paper
- Surround: Plasticised cloth
- Voice coil: Aluminium
- Magnet: Ferrite

H.F. UNIT

- Diaphragm: Polyester
- Voice coil: Edgewound aluminium ribbon
- Voice coil former: Kapton
- Magnet: Neodymium

MOUNTING INFORMATION

Overall diameter Bolt circle diameter	260.5 mm. 10.26 in. 243.5 mm. 9.59 in.
Baffle cutout diameter: - Front mount	228 mm. 8.98 in.
- Rear mount	230 mm. 9.06 in.
Depth	153 mm. 6.02 in.
Volume displaced by driver	3 I 0.1 ft. ³
Net weight	5.1 kg. 11.22 lb.
Shipping weight	5.9 kg. 12.98 lb.

**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).

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