

KEY FEATURES

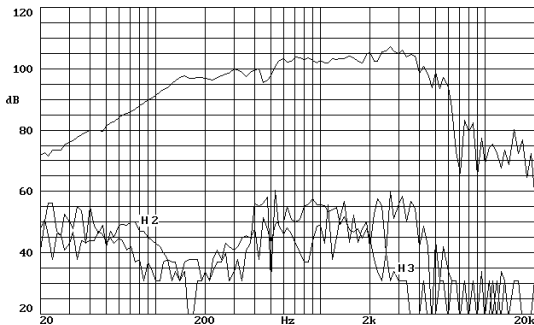
- Exceptional power handling (200 w AES)
- Compact neodymium magnet system
- 3" (77 mm) edgewound aluminium ribbon voice coil
- High efficiency: 8.6 %
- Low weight (4 kg)
- Extended frequency response with low distortion and excellent linearity
- Designed for the mid-frequencies reproduction



GENERAL DESCRIPTION

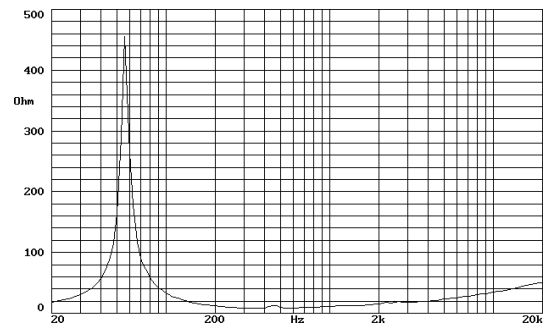
This 12» mid-bass frequency loudspeaker features a compact, powerful neodymium magnet system, providing exceptional energy level and reducing the total loudspeaker mass. This results in exceptional high efficiency (8.6%), low distortion and excellent linearity, with extended response.

FREQUENCY RESPONSE AND DISTORTION CURVES

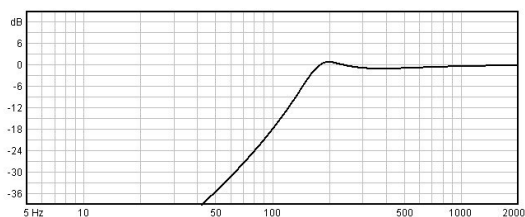


Note: on axis frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1w @ 1m.

FREE AIR IMPEDANCE CURVE

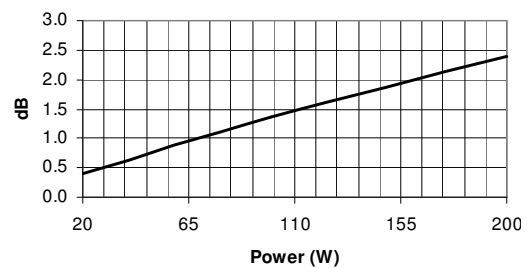


PREDICTED LOW FREQUENCY RESPONSE



Note: Bass-reflex cabinet, Vb=25 l, fb=175 Hz

POWER COMPRESSION LOSSES



Note: These losses are calculated from a five minutes AES power test applying band limited pink noise (100-5000 Hz). The loudspeaker is free-air standing.

TECHNICAL SPECIFICATIONS

| | |
|--------------------------|---------------------------------------|
| Nominal diameter | 300 mm. 12 in. |
| Rated impedance | 8 ohms |
| Minimum impedance | 8 ohms |
| Power capacity | 200 w AES |
| Program power | 400 w |
| Sensitivity | 103 dB 2.83v @ 1m @ 2 π |
| Frequency range | 80 - 6000 Hz |
| Recom. enclosure vol. | 20 / 50 l 0.7 / 1.75 ft. ³ |
| Voice coil diameter | 77 mm. 3 in. |
| Magnetic assembly weight | 3 kg. 6.6 lb. |
| BL factor | 24.2 N / A |
| Moving mass | 0.045 kg. |
| Voice coil length | 12 mm |
| Air gap height | 11 mm |
| X damage (peak to peak) | 16 mm |

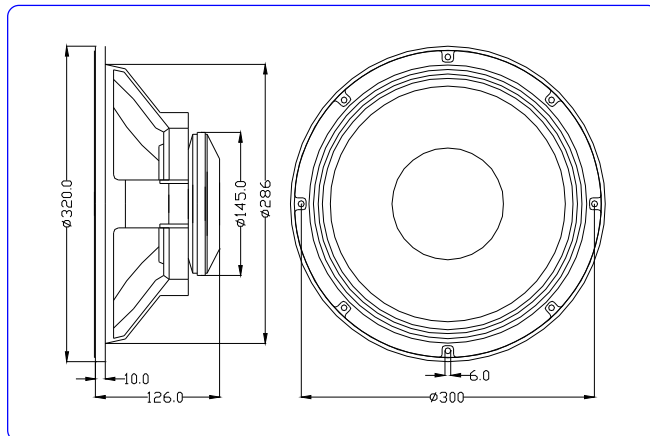
MOUNTING INFORMATION

| | |
|----------------------------|-----------------------------|
| Overall diameter | 320 mm. 12.6 in |
| Bolt circle diameter | 300 mm. 11.8 in. |
| Baffle cutout diameter: | |
| - Front mount | 286 mm. 11.26 in. |
| - Rear mount | 280 mm. 11.02 in. |
| Depth | 126 mm. 4.96 in. |
| Volume displaced by driver | 5.5 l 0.19 ft. ³ |
| Net weight | 4 kg. 8.8 lb. |
| Shipping weight | 4.5 kg. 10 lb. |

THIELE-SMALL PARAMETERS

| | |
|--|-----------------------|
| Resonant frequency, fs | 56 Hz |
| D.C. Voice coil resistance, Re | 5.2 ohms. |
| Mechanical Quality Factor, Qms | 12 |
| Electrical Quality Factor, Qes | 0.14 |
| Total Quality Factor, Qts | 0.14 |
| Equivalent Air Volume to Cms, Vas | 72 l |
| Mechanical Compliance, Cms | 181 μ m / N |
| Mechanical Resistance, Rms | 1.3 kg / s |
| Efficiency, η_0 (%) | 8.6 |
| Effective Surface Area, Sd (m ²) | 0.0530 m ² |
| Maximum Displacement, Xmax | 2 mm |
| Displacement Volume, Vd | 106 cm ³ |
| Voice Coil Inductance, Le @ 1 kHz | 1.5 mH |

DIMENSION DRAWINGS



MATERIALS

- **Voice coil:** cast aluminium.
- **Cone:** paper.
- **Surround:** treated cloth.
- **Voice coil:** edgewound aluminium ribbon.
- **Magnet:** neodymium.

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).



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