

### KEY FEATURES

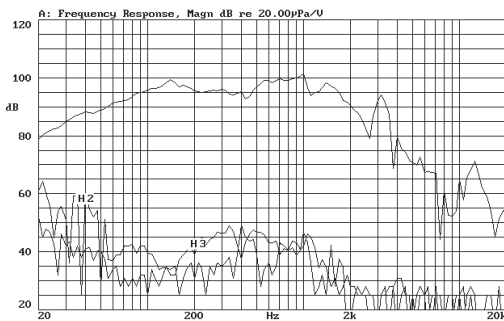
- High power handling: 700 w AES
- 4" (100 mm) edgewound copper ribbon voice coil
- High sensitivity: 98 dB
- Magnet system design for improved heat dissipation
- Spider of improved temperature behaviour: retain its mechanical properties at high power
- Large Xmax: 9 mm
- Low harmonic distortion
- Designed for subwoofer applications



### GENERAL DESCRIPTION

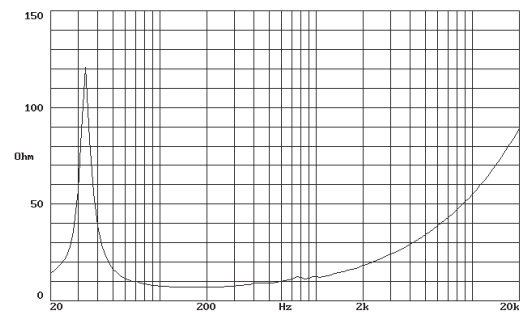
This 15" long excursion bass loudspeaker has been specifically designed to deliver high impact bass response, with exceptional high power handling capacity (700 w AES). It incorporates an edgewound copper ribbon voice coil (4" diameter) and a vented magnetic structure. An optimum cooling system allows a fast heat exchange and contributes to the reduction of thermal power compression.

### FREQUENCY RESPONSE AND DISTORTION CURVES

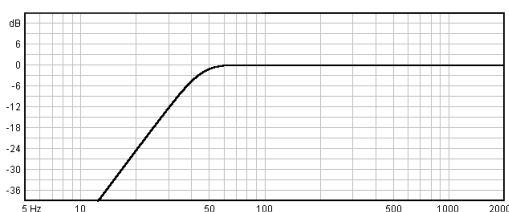


Note: on axis frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1w @ 1m.

### FREE AIR IMPEDANCE CURVE

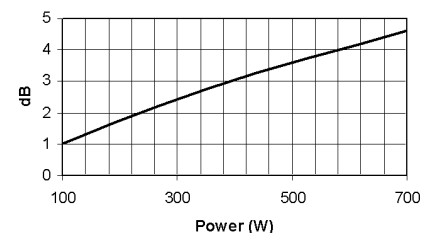


### PREDICTED LOW FREQUENCY RESPONSE



Note: Bass-reflex cabinet, Vb=120 l, fb=42 Hz

### POWER COMPRESSION LOSSES



Note: These losses are calculated from a five minutes AES power test applying band limited pink noise (25-1200 Hz). The loudspeaker is free-air standing.

### TECHNICAL SPECIFICATIONS

Nominal diameter	380 mm. 15 in.
Rated impedance	8 ohms.
Minimum impedance	7.1 ohms.
Power capacity*	700 w AES
Program Power	1400 w
Sensitivity	98 dB 2.83V @ 1m @ 2 $\pi$
Frequency range	30-1500 Hz
Recom. enclosure vol.	60 / 150 l 2.24 / 6 ft. <sup>3</sup>
Voice coil diameter	100 mm. 4 in.
Magnetic assembly weight	9 kg. 19.84 lb.
BL factor	20.35 N/A
Moving mass	0.120 kg.
Voice coil length	23 mm.
Air gap height	9.5 mm.
X damage (peak to peak)	40 mm.

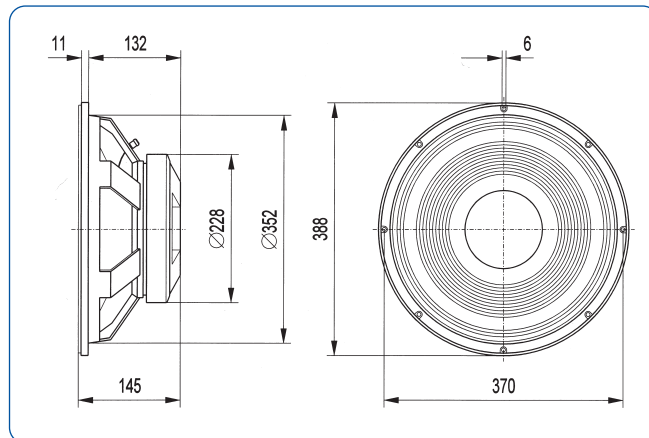
### MOUNTING INFORMATION

Overall diameter	388 mm. 15.28 in.
Bolt circle diameter	370 mm. 14.56 in.
Baffle cutout diameter:	
-Front mount	352 mm. 13.86 in.
-Rear mount	355 mm. 13.98 in.
Depth	145 mm. 5.7 in.
Volume displaced by driver	7 l 0.25 ft. <sup>3</sup>
Net weight	10.4 kg. 22.92 lb.
Shipping weight	11.5 kg. 25.35 lb.

### THIELE-SMALL PARAMETERS\*\*

Resonant Frequency, $f_s$	35 Hz
D.C. Voice Coil Resistance, $R_e$	5.5 ohms.
Mechanical Quality Factor, $Q_{ms}$	8.7
Electrical Quality Factor, $Q_{es}$	0.36
Total Quality Factor, $Q_{ts}$	0.35
Equivalent Air Volume to Cms, $V_{as}$	215 l
Mechanical Compliance, $C_{ms}$	175 $\mu$ m/N
Mechanical Resistance, $R_{ms}$	2.9 kg/s
Efficiency, $\eta_0$ (%)	2.3
Effective Surface Area, $S_d$ (m <sup>2</sup> )	0.091 m <sup>2</sup>
Maximum Displacement, $X_{max}$	9 mm.
Displacement Volume, $V_d$	820 cm. <sup>3</sup>
Voice Coil Inductance, $L_e$ @ 1kHz	1.2 mH

### DIMENSION DRAWINGS



### MATERIALS

- **Basket:** Cast aluminium
- **Cone:** Paper
- **Surround:** Treated cloth
- **Voice coil:** Edgewound copper wire
- **Magnet:** Ferrite

#### 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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