

KEY FEATURES

- Real 1000 w AES power handling
- Sensitivity: 97 dB @ 2.83v
- Large Xmax allowing longer voice coil displacements
- Designed for subwoofer applications that require extra power handling



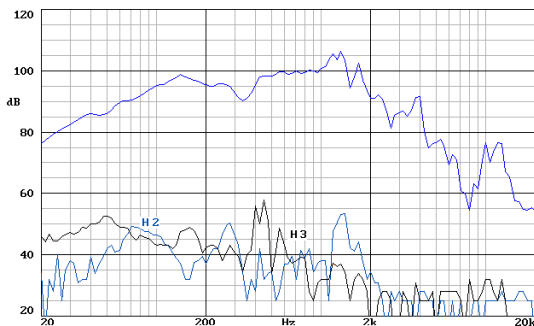
TECHNICAL SPECIFICATIONS

Nominal diameter	460 mm. 18 in.
Rated impedance	8 ohms
Minimum impedance	6.1 ohms
Power capacity	1000 w AES
Program power	2000 w
Sensitivity	97 dB 2.83v @ 1m @ 2 π
Frequency range	30 - 2000 Hz
Recom. enclosure vol.	40 / 150 l 1.4 / 5.3 ft. ³
Voice coil diameter	100 mm. 4 in.
Magnetic assembly weight	10 kg 22.04 lb.
BL factor	23.7 N / A
Moving mass	0.143 kg.
Voice coil length	20 mm
Air gap height	12 mm
X damage (peak to peak)	48 mm

THIELE-SMALL PARAMETERS

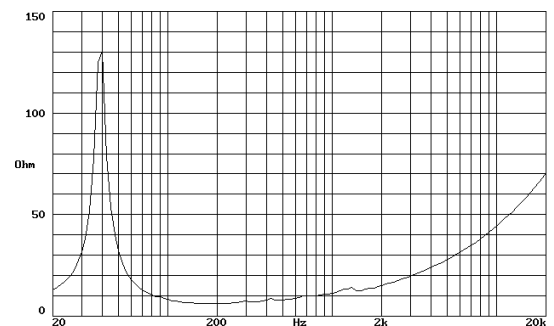
Resonant frequency, fs	39 Hz
D.C. Voice coil resistance, Re	5.3 ohms.
Mechanical Quality Factor, Qms	8.943
Electrical Quality Factor, Qes	0.33
Total Quality Factor, Qts	0.32
Equivalent Air Volume to Cms, Vas	125.43 l
Mechanical Compliance, Cms	116 μ m / N
Mechanical Resistance, Rms	3.93 kg / s
Efficiency, η (%)	2.2
Effective Surface Area, Sd (m²)	0.0885 m ²
Maximum Displacement, Xmax	7.5 mm
Displacement Volume, Vd	664 cm ³
Voice Coil Inductance, Le @ 1 kHz	2.2 mH

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



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 Xmax is calculated as (Lvc - Hag)/2 + Hag/3.5, where Lvc is the voice coil length and Hag is the air gap height.