

-Pro-

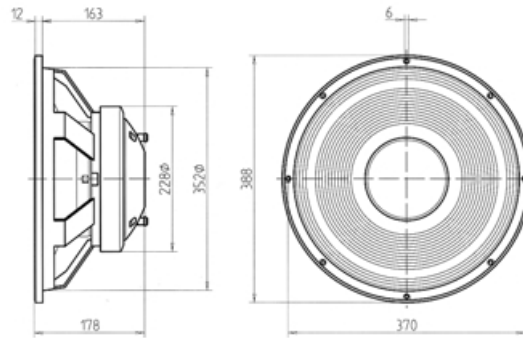
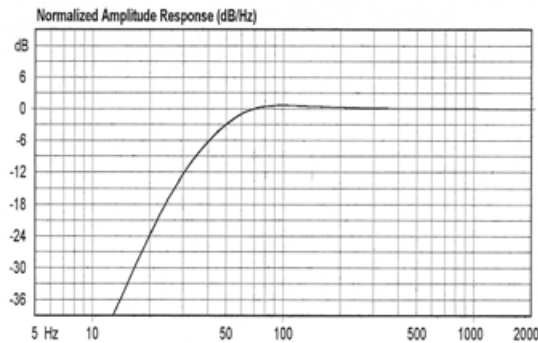
(15DX)
CO AXIAL

This model consists of a 15" bass loudspeaker and a 2" compression driver that is concentrically mounted using the same magnetic structure. The bass unit features a 4"1/2 voice coil, attached to a double suspension system. The high frequency drives features a 4" titanium diaphragm and an edgewound ribbon voice coil. This unit has incredible power capacity, high efficiency, smooth response and low distortion.



Este modelo consta de una unidad de graves de 15" y de un reproductor de agudos de 2" montados concéntricamente uno sobre otro compartiendo el mismo motor. La bobina de graves es de 4"1/2 y va sujeta a un sistema de suspensión doble, mientras que el diafragma de agudos, de titanio, utiliza una bobina de 4" de hilo plano de aluminio. Este transductor tiene una capacidad de potencia muy importante, una elevada eficiencia y respuesta muy homogénea con reducida distorsión.

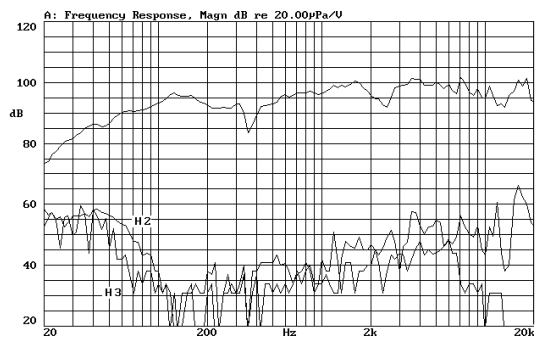
PREDICTED LOW FREQUENCY RESPONSE • Bass-reflex cabinet, Vb=90.00 l, fb=40.0 Hz



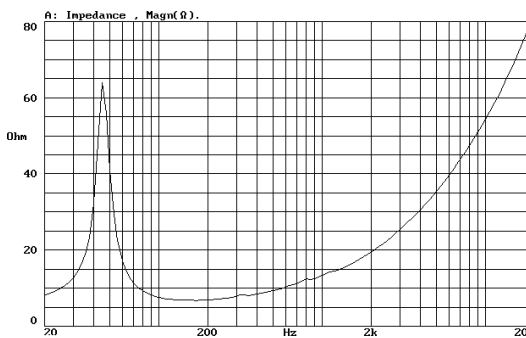
SPECIFICATIONS

L.F. UNIT	
Nominal diameter	380 mm. 15 in.
Rated impedance	8 ohms.
Power capacity*	350 w RMS
Program Power	700 Watts.
Sensitivity	97 dB 2.83v @ 1m @ 2π
Frequency range	35-1500 Hz
Recom. enclosure vol.	60/180 l 2.14/6.35 ft. ³
Voice coil diameter	114 mm. 4.5 in.
Magnetic assembly weight	9.4 kg. 20.68 lb.
BL factor	16.6 N/A
Moving mass	0.11 kg.
Voice coil length	17 mm.
Air gap height	9 mm.
X damage	28 mm.
Voice Coil Inductance, Le@ 1kHz	1.5 mH
H.F. UNIT	
Rated impedance	8 ohms.
Minimum impedance	6.3 ohm@ 1kHz
Power capacity	100 w
Frequency range	0.8 - 17 kHz
Sensitivity 1w @ 1m	103 dB
Voice coil diameter	100 mm. 4 in.
Flux density	1.5 T
BL factor	12.85 N/A
Dispersion	90°

FREQUENCY RESPONSE & DISTORTION CURVES, MAGN. On axis, 1w @ 1m. Measured with FD 212, with EQ & -3 dB ATT.



FREE AIR IMPEDANCE CURVE, L.F. UNIT



MOUNTING INFORMATION

Overall diameter	388 mm. 15.28 in.
Bolt circle diameter	370 mm. 14.57 in.
Baffle cutout diameter:	
-Front mount	352 mm. 13.86 in.
-Rear mount	355 mm. 13.98 in.
Depth	178 mm. 7 in.
Volume displaced by driver	7 l 0.25 ft. ³
Net weight	11.3 kg. 24.86 lb.
Shipping weight	12.5 kg. 25 lb.

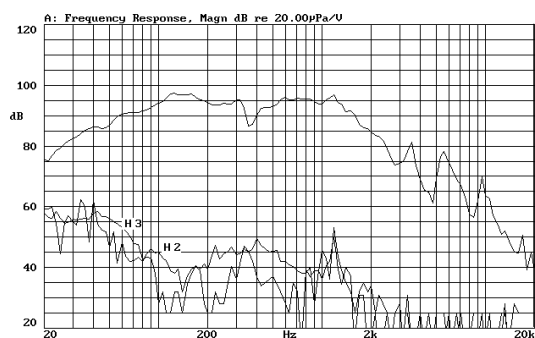
MATERIALS

L.F. UNIT	
Basket	Die cast aluminium
Cone	Paper
Surround	Plasticised cloth
Voice coil	Edgewound copper ribbon
Magnet	Ferrite
H.F. UNIT	
Diaphragm	Titanium
Voice coil	Edgewound alum. ribbon
Voice coil former	Kapton

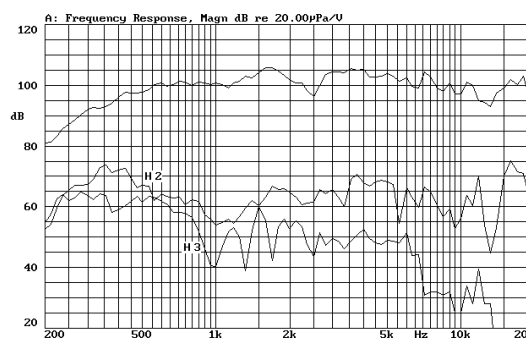
THIELE-SMALL PARAMETERS**

Resonant Frequency, fs	40 Hz
D.C. Voice Coil Resistance, Re	5.3 ohms.
Mechanical Quality Factor, Qms	9.2
Electrical Quality Factor, Qes	0.45
Total Quality Factor, Qts	0.43
Equivalent Air Volume to Cms, Vas	160 l
Mechanical Compliance, Cms	145 μm/N
Mechanical Resistance, Rms	4 kg/s
Efficiency, ηo (%)	2.4
Effective Surface Area, Sd(m ²)	0.088 m ²
Maximum Displacement, Xmax	4 mm.
Displacement Volume, Vd	350 cm. ³

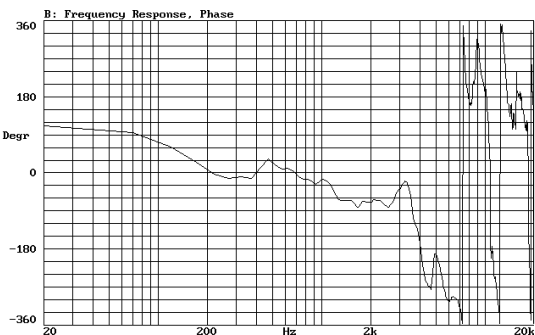
FREQUENCY RESPONSE & DISTORTION CURVES, MAGN. On axis, 1w @ 1m. L.F. UNIT



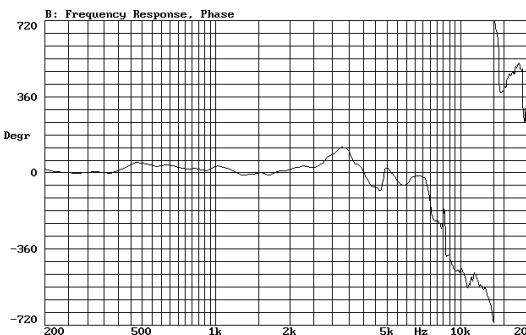
FREQUENCY RESPONSE & DISTORTION CURVES, MAGN. On axis, 1w @ 1m. H.F. UNIT



FREQUENCY RESPONSE, PHASE, On axis, 1w @ 1m. L.F. UNIT



FREQUENCY RESPONSE, PHASE On axis, 1w @ 1m. H.F. UNIT



NOTES

*The power capacity corresponds to the RMS maximum value that can dissipate the loudspeaker when a sinus signal is applied for a period of at least two hours. 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, using a velocity-current laser transducer, and will reflect the long term parameters, once the loudspeaker has been working for a short period of time.

NOTAS

*La potencia admisible corresponde a la máxima potencia RMS que puede disipar el altavoz durante al menos dos horas, cuando se le aplica una señal senoidal determinada.

Por potencia programa se entiende la capacidad del altavoz en el manejo de señales transitorias, como sería el proporcionado por el contenido de un pasaje musical normal.

* Los parámetros T-S han sido medidos después de un periodo de fatiga y estabilización de las suspensiones, mediante transductor laser de velocidad-corriente, y son el reflejo de los parámetros a largo plazo del altavoz, una vez este haya sido instalado y haya trabajado en un corto espacio de tiempo.