

LOW FREQUENCY TRANSDUCER

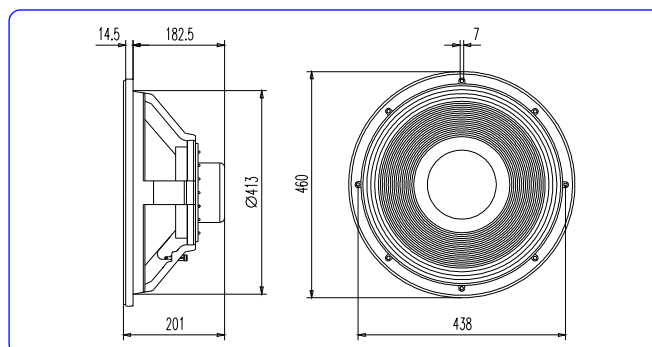
KEY FEATURES

- Real 800 w AES power handling
- Superb sensitivity: 100 dB
- 4" duo technology voice coil
- Carbon fiber reinforced paper cone
- Neodymium magnet

TECHNICAL SPECIFICATIONS

Nominal diameter	460 mm. 18 in.
Rated impedance	8 ohms
Minimum impedance	5.8 ohms
Power capacity*	800 w AES
Program power	1600 w
Sensitivity	100 dB 2.83v @ 1m @ 2 π
Frequency range	25 - 4000 Hz
Recom. enclosure vol.	80 / 200 l 2.8 / 7 ft. ³
Voice coil diameter	100 mm. 4 in.
Magnetic assembly weight	4.62 kg 10.16 lb.
BL factor	21.9 N / A
Moving mass	0.146 kg.
Voice coil length	20 mm
Air gap height	12 mm
X damage (peak to peak)	52 mm

DIMENSION DRAWINGS



THIELE-SMALL PARAMETERS**

Resonant frequency, fs	30 Hz
D.C. Voice coil resistance, Re	5.1 ohms.
Mechanical Quality Factor, Qms	11.55
Electrical Quality Factor, Qes	0.29
Total Quality Factor, Qts	0.29
Equivalent Air Volume to Cms, Vas	411 l
Mechanical Compliance, Cms	193 μ m / N
Mechanical Resistance, Rms	2.34 kg / s
Efficiency, η (%)	3.7
Effective Surface Area, Sd (m ²)	0.1225 m ²
Maximum Displacement, Xmax***	7.5 mm
Displacement Volume, Vd	918 cm ³
Voice Coil Inductance, Le @ 1 kHz	1.9 mH

MOUNTING INFORMATION

Overall diameter	460 mm. 18.11 in.
Bolt circle diameter	438 mm. 17.24 in.
Baffle cutout diameter:	
- Front mount	413 mm. 16.26 in.
- Rear mount	400 mm. 15.75 in.
Depth	201 mm. 7.91 in.
Volume displaced by driver	13 l 0.46 ft. ³
Net weight	7 kg. 15.4 lb.
Shipping weight	8.5 kg. 18.7 lb.

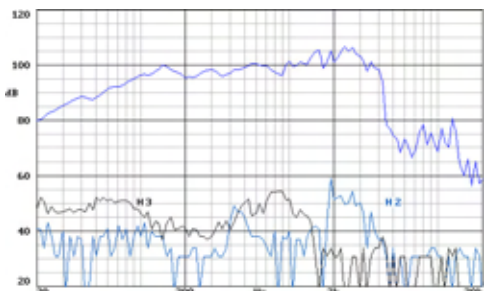
Notes:

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

FREQUENCY RESPONSE AND DISTORTION



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

FREE AIR IMPEDANCE CURVE

