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PROFESSIONAL LOUDSPEAKERS
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15P1000Fe
LOW FREQUENCY TRANSDUCER

KEY FEATURES

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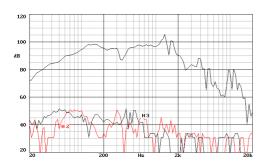
TECHNICAL SPECIFICATIONS

Nominal diameter	380 mm. 15 in.
Rated impedance	8 ohms
Minimum impedance	6.3 ohms
Power capacity*	1000 w AES
Program power	2000 w
Sensitivity	97 dB 2.83v @ 1m @ 2π
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	10.7 kg. 23.54 lb.
BL factor	23.5 N / A
Moving mass	0.149 kg.
Voice coil length	21 mm
Air gap height	12 mm
X damage (peak to peak)	52 mm

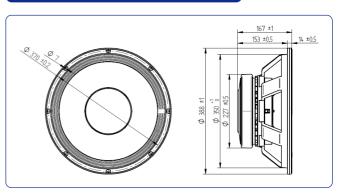## THIELE-SMALL PARAMETERS**

Resonant frequency, fs	45 Hz
D.C. Voice coil resistance, Re	5.1 ohms
Mechanical Quality Factor, Qms	11.46
Electrical Quality Factor, Qes	0.38
Total Quality Factor, Qts	0.37
Equivalent Air Volume to Cms, Vas	85.9 l
Mechanical Compliance, Cms	84.2 μm / N
Mechanical Resistance, Rms	3.71 kg / s
Efficiency, ηo (%)	2
Effective Surface Area, Sd (m^2)	0.0855 m^2
Maximum Displacement, Xmax***	8 mm
Displacement Volume, Vd	685 cm^3
Voice Coil Inductance, Le @ 1 kHz	2 mH

DIMENSION DRAWINGS

MOUNTING INFORMATION

Overall diameter	388 mm.	15.28 in.
Bolt circle diameter	370 mm.	14.57 in.
Baffle cutout diameter:		
- Front mount	350 mm.	13.78 in.
- Rear mount	353 mm.	13.89 in.
Depth	167 mm.	6.57 in.
Volume displaced by driver	7 l	0.25 ft.^{3}
Net weight	12.1 kg.	26.62 lb.
Shipping weight	13.6 kg.	29.92 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.
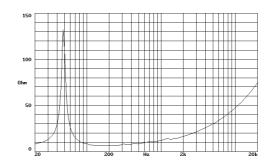
FREE AIR IMPEDANCE CURVE