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PROFESSIONAL LOUDSPEAKERS
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15P1200Nd/N

LOW FREQUENCY TRANSDUCER
### P1200 series

KEY FEATURES

- 1200 W AES power handling
- Sensitivity: 97 dB @ 2.83V/1m
- Exclusive NCR membrane (Neck Coupling Reinforcement)
- CONEX Spider with Die Cast Aluminum Ring
- 4" duo technology voice coil
- Forced air convection circuit for low power compression
- Extended controlled displacement: Xmax ± 9.5 mm.
- Massive mechanical displacement capability: 52 mm p-p

TECHNICAL SPECIFICATIONS

Nominal diameter	380mm. 15 in.
Rated impedance	8 ohms
Minimum impedance	5.7 ohms
Power capacity*	1200 w AES
Program power	2400 w
Sensitivity	97 dB 2.83v @ 1m @ 2π
Frequency range	25 - 1800 Hz
Recom. enclosure vol.	40 / 150 l 1.4 / 5.3 ft.³
Voice coil diameter	100 mm. 4 in.
Magnetic assembly weight	6 kg. 13.2 lb.
BL factor	26.5 N / A
Moving mass	0.165 kg.
Voice coil length	25mm
Air gap height	14mm
X damage (peak to peak)	52 mm

DIMENSION DRAWINGS
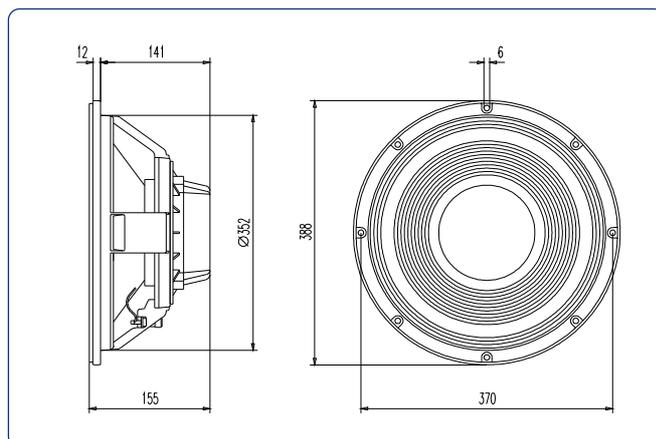
THIELE-SMALL PARAMETERS**

Resonant frequency, fs	42Hz
D.C. Voice coil resistance, Re	5.2 ohms
Mechanical Quality Factor, Qms	14.2
Electrical Quality Factor, Qes	0.32
Total Quality Factor, Qts	0.31
Equivalent Air Volume to Cms, Vas	84.7 l
Mechanical Compliance, Cms	83 μm / N
Mechanical Resistance, Rms	3.22 kg / s
Efficiency, ηo (%)	1.88
Effective Surface Area, Sd (m²)	0.0855 m²
Maximum Displacement, Xmax***	9.5 mm
Displacement Volume, Vd	805cm³
Voice Coil Inductance, Le @ Zmin	2.7 mH

MOUNTING INFORMATION

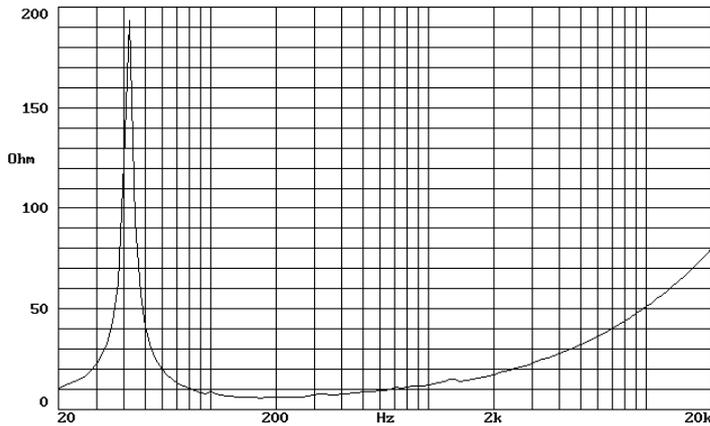|	
Overall diameter	388 mm. 15.28 in.
Bolt circle diameter	370 mm. 14.57 in.
Baffle cutout diameter:	
- Front mount	352 mm. 13.86 in.
- Rear mount	355 mm. 13.98 in.
Depth	155 mm. 6.10 in.
Volume displaced by driver	7 l 0.25 ft.³
Net weight	7.7 kg. 16.94 lb.
Shipping weight	8.7 kg. 19.14 lb.

Notes:

*The power capacity is determined according to AES2-1984 (r2003) standard.
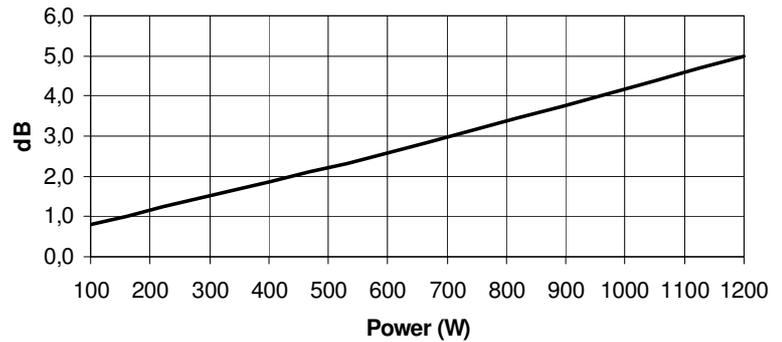Program power is defined as the transducer's ability to handle normal music program material.

**T-S parameters are measured after an exercise period using a preconditioning power test. The 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.

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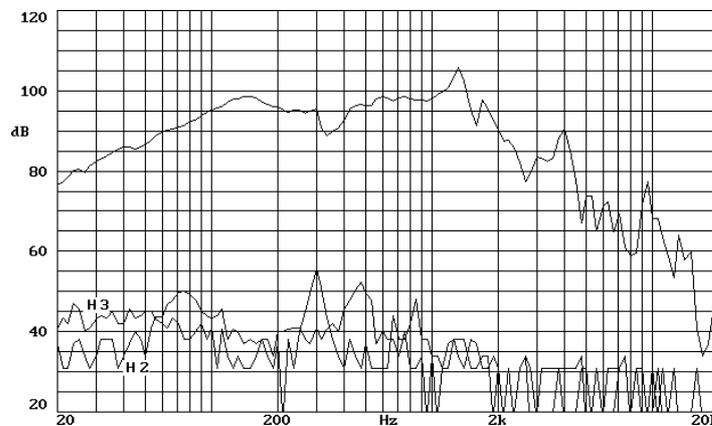
FREE AIR IMPEDANCE CURVE

POWER COMPRESSION LOSSES

Note: Power Compression Losses were calculated after 5 minutes period applying a pink noise signal filtered between 50 and 500 Hz.

FREQUENCY RESPONSE AND DISTORTION

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