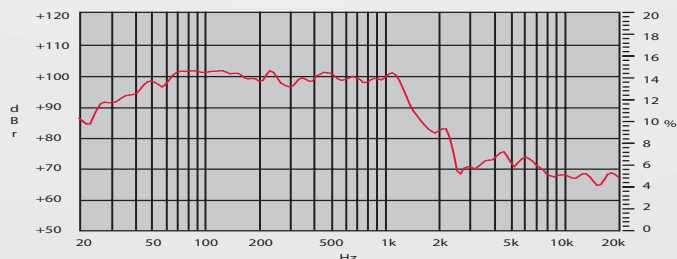


PDN.2450

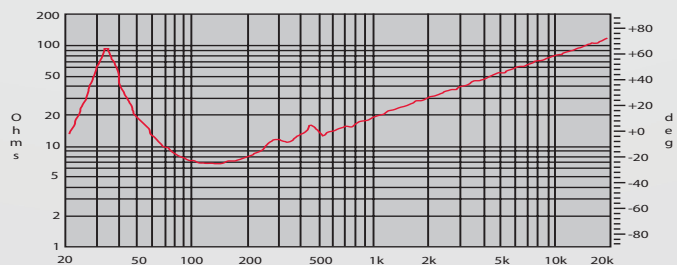


PDN.2450

FREQUENCY RESPONSE DATA:



IMPEDANCE:



Half space response measured in a 975 Litre sealed box.

Please note that frequency response measurements are supplied for comparison purposes only and are not a measure of the low frequency performance which may be achievable in a fully optimised system.

The world's first commercially available 24" neodymium sub bass transducer!

Designed specifically to provide powerful sub bass frequencies with minimal distortion and power compression. This is the ultimate sub bass solution delivering earth shaking lows. The driver exhibits stunning bass control, handling the lowest notes with extremely high efficiency.

The PDN.2450 offers a fast responsive sound and is an outstanding sub bass driver. Neodymium technology ensures a considerable weight saving over the conventional ceramic transducer making it eminently suitable for touring and fixed installation applications.

At home in horn loaded sub bass systems and also delivering powerful lows in reflex designs the PDN.2450 affords complete flexibility in enclosure design options.

- Heavy duty 24" cast aluminium frame with extra wide flange for increased rigidity
- Sub Woofer
- Field replaceable magnet for touring applications
- 1000 WRMS (AES)
- 6" copper voice coil assembly
- Neodymium magnet assembly
- Power compression only 2dB at rated power *1
- Distortion *2 2nd Harmonic < 1 %
3rd Harmonic < 1 %
- Advanced magnetic assembly incorporating a composite alloy and steel pole piece giving a uniform and stable magnetic field, improving linear excursion and providing an efficient thermal path to dissipate the heat produced by the voice coil.
- A B/L in excess of 32 T/m for fast accurate lows
- Double suspension system maintaining a pure piston action for the moving mass even when driven with the most complex programme input signals and provides additional durability against the rigours of life on the road

*1 Power compression is the reduction of sensitivity at the specified power. Higher power ratings do not necessarily give a proportionate increase in SPL therefore the maximum SPL of the PD.2450 may significantly exceed that of other manufacturers with high published power ratings.

*2 Distortion is measured at 10% of the rated power (AES Standard).

SPECIFICATIONS

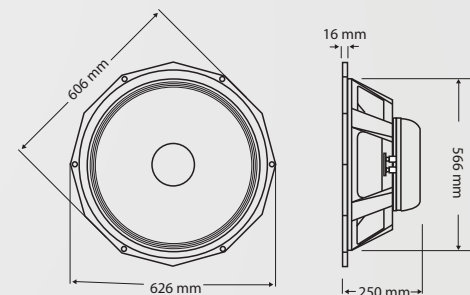
Nominal Diameter	61 cm (24")
Voice Coil Diameter	152 mm (6.0")
Nominal impedance	4,8 or 16 Ohms
Power Rating	1000 Watts (AES)
Sensitivity (1W/1M)	99 dB
Frequency Range	30 Hz - 1 kHz
Recommended Enclosure Volume	130-400 Litres
Displacement Limit (peak-peak)	36 mm (1.42")
Resonance	32 Hz
Voice Coil	Copper
Voice Coil Winding Depth	30 mm (1.18")
Magnet Gap Depth	15 mm (0.59")
Magnet Material	Neodymium
Flux Density	1.1 T
Dust Dome Material	Paper
Suspension Material	Dual Fabric
Cone / Surround Material	Paper/Fabric

THIELE SMALL PARAMETERS

Fs	32 Hz
Re	5.58 Ohms
Qts	0.36
Qms	7.8
Qes	0.38
Vas	459.7 Litres
Mms	400.8 g
Sd	2290 cm ²
Cms	0.0617 µM/N
BL	34.17 T/m
Xmax	10.5 mm
Vd	2.36 Litres
Reference Efficiency	3.82 %

MOUNTING AND SHIPPING INFORMATION

Fixing Holes	x 6 Fixing Holes M8
Nett Weight	25.8 Kg (56.87 lb.)
Shipping Weight	27.8 Kg (61.28 lb.)



1. AES Standard (40 to 400 Hz) Program 2000 Watts
2. AES Recommended Practice.
3. Thiele - Small Parameters follow a 1000 Watt preconditioning period.