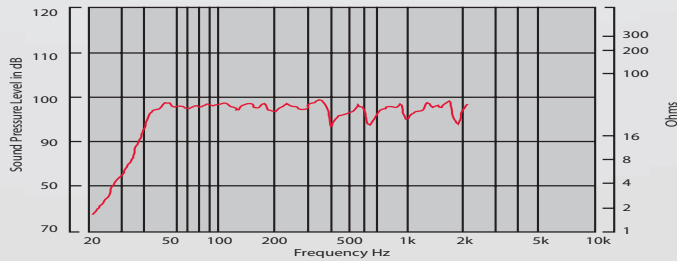


PD.1850

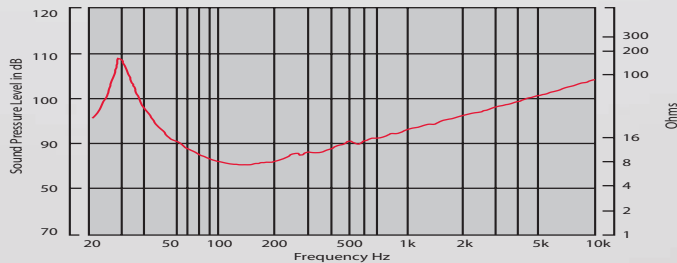


PD.1850

FREQUENCY RESPONSE DATA:



IMPEDANCE:



Response measured in a half space environment using a vented enclosure of 164 litres. 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.

Designed specifically to provide powerful and accurate bass frequencies with minimal distortion and power compression.

The PD.1850 is the optimum choice for top of the range sub bass systems where the ability to take punishment in the most demanding applications is the ultimate selection criterion.

Suitable for sound reinforcement in a variety of enclosure types since it allows enclosure designers considerably more freedom with specialised loading techniques without having to make allowances for physical characteristics or power handling limitations which are typically the result of more traditional designs. Appropriate for applications as diverse as scoop bins, conventional reflex cabinets and horn loaded systems.

- Heavy duty 18" cast aluminium frame with extra wide flange for increased rigidity
- Sub Woofer
- Field replaceable magnet for touring applications
- 800 WRMS
- 5" copper voice coil assembly
- 170 oz. ceramic magnet
- Power compression only 1.6dB 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 31 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.1850 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

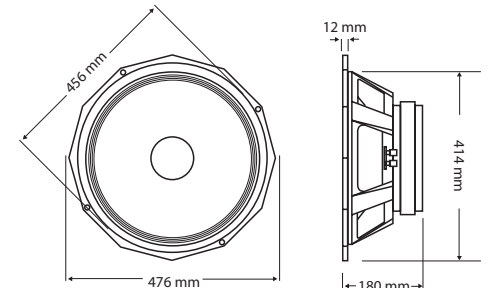
Nominal Diameter	46 cm (18")
Voice Coil Diameter	127 mm (5")
Nominal impedance	4,8 or 16 Ohms
Power Rating	800 Watts (AES)
Sensitivity (1W/1M)	98 dB
Frequency Range	35 Hz - 2 kHz
Recommended Enclosure Volume	90-220 Litres
Displacement Limit (peak-peak)	34 mm (1.33")
Resonance	30 Hz
Voice Coil	Copper
Voice Coil Winding Depth	28 mm (1.1")
Magnet Gap Depth	12 mm (0.453")
Magnet Material	Ceramic
Magnet Weight	4.8 Kg (170 oz.)
Flux Density	1.18 T
Dust Dome Material	Paper
Suspension Material	Dual Fabric
Cone / Surround Material	Paper/Fabric

THIELE SMALL PARAMETERS

Fs	30 Hz
Re	5.4 Ohms
Qts	0.21
Qms	6.04
Qes	0.22
Vas	249 Litres
Mms	216.4 g
Sd	1150 cm ²
Cms	133 μM/N
BL	31.57 T/m
Xmax	11.05 mm
Vd	1.271 Litres
Reference Efficiency	2.88 %

MOUNTING AND SHIPPING INFORMATION

Fixing Holes	x 6 Fixing Holes M8 x 8 Concealed M8
Nett Weight	22 Kg (48.4 lb.)
Shipping Weight	24 Kg (52.8 lb.)



1. AES Standard (35 to 350 Hz) Program 1600 Watts 2. Sensitivity is derived from the sine wave response between 50 - 350 Hz at 5W/2M using Zmin. It is then scaled to represent 1W/1M. It should be noted that not all manufacturers' sensitivity figures are based on this AES Recommended Practice. 3. In less demanding applications, the crossover point may be higher. 4. Thiele - Small Parameters follow a 800 Watt preconditioning period.