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PD.184NR1

SUB BASS DRIVER

RADIAL NEO TECHNOLOGY

18” / 457.2 mm	1000 W (A.E.S.)	99 dB	30 Hz - 800 Hz	4.0” / 101.6 mm	8.50 mm Xmax
NOMINAL DIAMETER	POWER HANDLING	SENSITIVITY (1W/ 1m)	FREQUENCY RESPONSE	VOICE COIL DIAMETER	MAXIMUM LINEAR EXCURSION

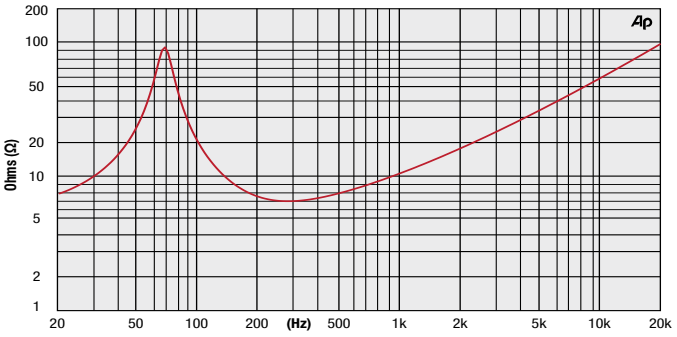
FEATURES:

- Radial Neodymium Motor structure.
- Vented cast aluminium chassis for improved thermal control of voice coil.
- Forced air cooling vented voice coil gap.
- Aluminium demodulation ring.
- Dual spider configuration with silicone based damping control.
- Triple-roll surround straight cone geometry.
- Rear aluminium heat sink.

The PD.184NR1 is ideally suited to applications where high power handling, long excursion and perfect linearity is required. Ideal for bass reflex design cabinets. The robust mechanical design and construction makes this unit an ideal choice for fixed or touring applications. The PD.184NR1 is intended as a dedicated sub woofer in bass reflex and horn loaded designs. The optimised radial neodymium motor system allows more efficient management of the magnetic flux, forced air venting and rear aluminium base plate keeps the motor temperature under control and reduced power compression to a minimum. The unit features a 4-inch, high temperature, copper voice coil capable of handling 1000W (AES) and exhibits an average sensitivity of 99dB across its working band.

FREQUENCY RESPONSE AND IMPEDANCE CHARTS

Half space response measured in a 950 Litre sealed enclosure.



GENERAL SPECIFICATIONS

Nominal Diameter	18” / 457.2 mm
Voice Coil Diameter	4.0” / 101.6 mm
Available Impedances	4 Ohm / 8 Ohm / 16 Ohm
Power Rating [1] [2] *	1000 W (A.E.S.)
Peak Power (6dB Crest Factor)*	4000 W (A.E.S.)
Sensitivity (1W - 1m)*	99 dB
Frequency Range	30 Hz - 800 Hz
Recommended Enclosure Volume	90 - 200 Litres
Resonance	38 Hz
Voice Coil Winding Depth	22.00 mm / 0.87”

Magnet Gap Depth	11.0 mm / 0.43”
Flux Density	1.18 Tesla
Magnet Material	Neodymium
Voice Coil Material	Copper
Former Material	Glass Fibre
Dust Dome Material	Solid Paper
Suspension Material	Poly Cotton / Silicone Damping
Cone / Surround Material	Paper / M Roll Poly Cotton

THIELE SMALL Parameters (8 Ω MODEL)[3]

Fs	38 Hz	Mms	216.00 g
Re	5.4 Ω	Sd	1164 cm²
Qms	6.17	Cms	99.70 µm/N
Qes	0.290	BL	29.50 T/m
Qts	0.270	Xmax	8.50 mm
Le (@ 1 kHz)	1.89 mH	Vd	0.8 Litres
Le (@ 10 kHz)	0.880 mH	Ref. Efficiency	2.50%
Vas	102 Litres	EBP	131.03 Hz

DIMENSIONS

Overall Diameter	473.6 mm
Width Across Flats	458.73 mm
Flange Height	14.5 mm
Depth (Excl. Flange)	200.00 mm
Magnet Diameter	138 mm

WEIGHT

Nett Weight	9.60 Kg / 21.16 lb
Shipping Weight	10.30 Kg / 22.71 lb

MOUNTING INFORMATION

Chassis Shoulder Diameter	415.0 mm
Outer Bolt Circle	x6 M8 on 456 mm PCD

**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 driver may significantly exceed that of other manufacturers with high power ratings.*
*** Distortion is measured at 10% of the rated power (AES Standard).*

1. AES Standard (35 to 350 Hz) Program 1000 Watts.
2. AES Recommended Practice.
3. Thiele - Small Parameters follow a 1000 Watt preconditioning period.

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.