

THE PROFESSIONAL SERIES SOVEREIGN PRO 8MN

MID RANGE DRIVER

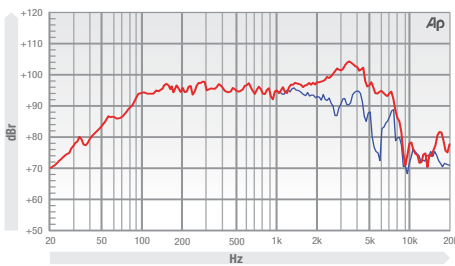


8" / 203.2 mm CHASSIS DIAMETER	250 w (A.E.S.) POWER HANDLING	99 dB SENSITIVITY (1w / 1m)
90 Hz - 4.5 kHz FREQUENCY RESPONSE	2.0" / 50.8 mm CCAW VOICE COIL	Ideal for line array applications

Product Features:

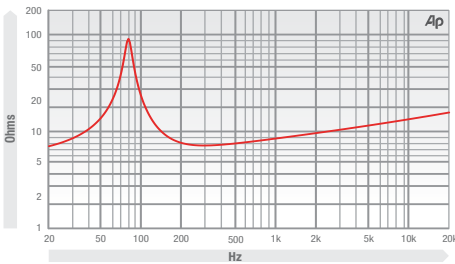
- Suitable for line array and small sealed enclosures.
- 2" Voice coil mid range unit driven by a lightweight Neodymium motor system.
- Weighs only 1.95 Kg.
- Exceptional efficiency, power handling and frequency coverage from compact design.
- High output and low distortion from 90Hz to 5kHz.
- Rugged die cast chassis.
- Extended usable frequency.

FREQUENCY RESPONSE DATA*

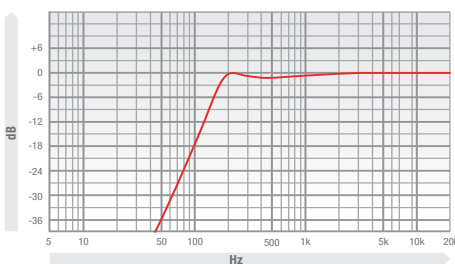


* Half space response measured in a 965 litre sealed box. Blue Line = fundamental 45° off-axis

IMPEDANCE



PREDICTED BASS RESPONSE



** Normalised bass reponse in 20 litre tuned to 70 Hz

ELECTRO ACOUSTIC SPECIFICATIONS

Nominal Chassis Diameter	8" / 203.2 mm
Impedance	4/ 8/ 16 Ω
Power Handling	250 w (A.E.S.)
Peak Power (6dB Crest Factor)	1000 w (A.E.S.)
Usable Frequency Range -6dB	90 Hz - 4.5 kHz
Sensitivity (1 w - 1 m)	99 dB
Moving Mass inc. Air Load	21.76 grams
Minimum Impedance Zmin	7 Ω
Effective Piston Diameter	6.46" / 164.08 mm
Peak Displacement Volume of Cone Vd	0.08 litres
Magnetic Gap Depth	0.35" / 9.00 mm
Flux Density	1.1 Tesla
Coil Winding Height	0.47" / 12.00 mm
Voice Coil Diameter	2.0" / 50.8 mm

THIELE SMALL PARAMETERS

FS Hz	80 Hz
RE Ohms	5.5 Ω
Qms	8.86
Qes	0.41
Qts	0.4
Vas Ltr	13.62 litres
Vd litres	0.08 litres
CMS (mm/N)	0.188 mm/N
BL T/m	12.5 T/m
Mms (grams)	21.56 grams
Xmax (mm)	3.5 mm
Sd (cm²)	225.9 cm²
Efficiency %	1.75%
Le (1k Hz)	1.13 mH

MOUNTING / SHIPPING INFORMATION

Overall Diameter	8.9" / 226 mm
Width Across Flats	8.25" / 209.5 mm
Flange Height	0.28" / 7 mm
Baffle Hole Diameter F/M	7.33" / 186 mm
Baffle Hole Diameter R/M	N/A
Gasket Supplied	Front & Rear
Fixing Holes	4x 5.5 mm ∅ on 214 mm PCD Not Applicable
Depth	3.60" / 91.44 mm
Weight	4.30 lb / 1.95 kg
Recommended Enclosure Volume	1.5 - 5 litres
Shipping Weight	5.20 lb / 2.36 kg
Packing Carton Dimensions	235 x 235 x 165 mm

MATERIALS OF CONSTRUCTION

Former Material	Glass Fibre
Voice Coil	CCAW
Magnet Material	Neodymium
Chassis	Die-cast Aluminium
Cone	Paper
Surround / Edge Termination	Polyvinyl Damped Dbl. Half Roll Linen
Dust Dome	Paper
Connectors	Push-button Spring Terminals
Polarity	Positive voltage at red terminal causes forward motion of cone

- Please enquire about alternative impedances.
- A.E.S. power handling test. Pink noise bandpass filtered at 12 dB per octave with cutoff frequencies of 100 Hz and 1000 Hz. Driver mounted in free air, test signal applied at rated power for two hours.
- Please note that the frequency response measurements are supplied for comparison only and are not a measure of the low frequency performance which may be achieved in a fully optimised system.

