

34 Hz





The Sovereign Pro 18-800P is intended for use as a high-output bass driver in multi way systems and features a 4 inch 'sandwich' inside and outside windings

voice coil, immersed in a symmetric magnetic field yielding increased linearity and

lower distortion. This, coupled with laminated silicone suspensions ensures fast accurate bass at high levels of excursion. The driver handles 800 Watts continuous and can cope with peaks in excess of 3200 Watts. This is due to advanced thermal management in the form of vented die-cast chassis. These measures effectively remove heat from the voice coil, resulting in extremely low-power compression. The Sovereign 18-800P exhibits 97.5 dB sensitivity and can deliver bass down to 35 Hz (-6

THE PROFESSIONAL SERIES **SOVEREIGN PRO 18-800P**

BASS DRIVER

18" / 457.2 mm CHASSIS DIAMETER

800 w (A.E.S) POWER HANDLING

97.5 dB SENSITIVITY (1w/1m)

35 Hz - 1 kHz FREQUENCY RESPONSE 4.0" / 101.6 mm COPPER-INSIDE/OUTSIDE WINDINGS VOICE COIL

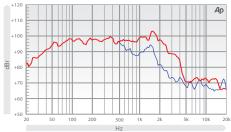
THIELE SMALL PARAMETERS

Delivers bass down to 35 Hz in a 200 litre ported enclosures

- Highly versatile in 2-way ported enclosures.
- UK manufactured cone with optimised pulp offering increased strength, durability and performance.

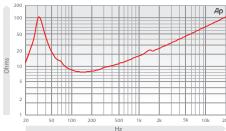
FS Hz

dB) in a 200 litre ported enclosure.

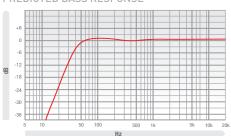


* Half space response measured in a 975 litre sealed box

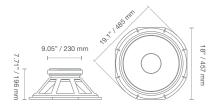
IMPEDANCE



PREDICTED BASS RESPONSE



** Normalised bass response in 175 litre tuned to 35 Hz



ELECTRO ACOUSTIC SPECIFICATIO	DNS
Nominal Chassis Diameter	18" / 457.2 mm
Impedance	8 Ω
Power Handling	800 w (A.E.S)
Peak Power (6dB Crest Factor)	3200 w (A.E.S)
Usable Frequency Range -6dB	35 Hz - 1 kHz
Sensitivity (1 w - 1 m)	97.5 dB
Moving Mass inc. Air Load	147 grams
Minimum Impedance Zmin	7.92 Ω
Effective Piston Diameter	15.03" / 381.76 mm
Peak Displacement Volume of Cone Vd	0.85 litres
Magnet Weight	120 oz
Magnetic Gap Depth	0.39" / 10 mm
Flux Density	1.2 Tesla
Coil Winding Height	0.90" / 23 mm
Voice Coil Diameter	4.0" / 101.6 mm

MOUNTING / SHIPPING INFORMATION	
Overall Diameter	19.1" / 485 mm
Width Across Flats	18" / 457 mm
Flange Height	0.465" / 11.8 mm
Baffle Hole Diameter F/M	16.53" / 419.86 mm
Baffle Hole Diameter R/M	16.33" / 414.78 mm
Gasket Supplied	Front & Rear
Fixing Holes	8x 0.275" diam on 18.425 PCD / 8x 0.275 diam on 17.25 PCD 8x 7 mm diam on 468 PCD / 8x 7 diam on 438.15 PCD
Depth	7.71" / 196 mm
Weight	27.6 lb / 12.5 kg

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Depth	7.71" / 196 mm
Weight	27.6 lb / 12.5 kg
Recommended Enclosure Volume	4.41 - 14.12 cu ft / 125 - 400 litres
Shipping Weight	28.9 lb / 13.1 kg
Packing Carton Dimensions	250 x 520 x 520 mm

RE Ohms	6.6 Ω
Qms	4.83
Qes	0.363
Qts	0.337
Vas Ltr	234 litres
Vd litres	0.848 litres
CMS (mm/N)	0.129 mm/N
BL T/m	25.5 T/m
Mms (grms)	170 grams
Xmax (mm)	7.5 mm
Sd (cm²)	1131 cm ²
Efficiency %	2.88%
Le (1k Hz)	2.43 mH

MATERIALS OF CONSTRUCTION	
Glass Fibre	
Copper - Inside / Outside Windings	
Ferrite	
Die-cast Aluminium	
Straight fibre loaded Polycellulose Ribbed Cone	
Polyvinyl Damped Dbl. Half Roll Poly Cotton	
Solid Paper	
Push-button Spring Terminals	
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 35 Hz and 350 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.