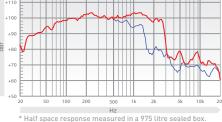


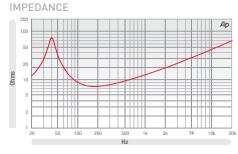


The Colossus 18-800N is intended for use as a high-output bass driver in multi way systems. It features a 4 inch 'sandwich' inside and outside windings voice coil immersed in a symmetric magnetic field yielding increased linearity and lower distortion. This, coupled with a large Xmax of 8 mm and laminated silicone suspensions, ensures tight, punchy bass at high levels of excursion. The cone membrane, manufactured from polycellulose, is much stronger and more durable than conventional paper pulp alternatives. This allows the driver to combine high-sensitivity with the structural integrity required to produce undistorted low frequencies at extreme sound pressure levels. The driver handles 800 Watts (A.E.S) 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 and increased motor system venting. These measures effectively remove heat from the voice coil, resulting in extremely low-power compression. The Colossus 18-800N exhibits 101 dB sensitivity and can deliver bass down to 35 Hz (-6 dB) in a 200 litre ported enclosure.

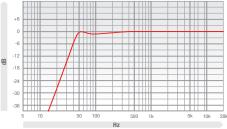
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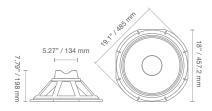




PREDICTED BASS RESPONSE



** Normalised bass response in 175 litre tuned to 42 Hz



ELECTRO ACOUSTIC SPECIFICATIONS

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	36 Hz - 2 kHz
Sensitivity (1 w - 1 m)	101 dB
Moving Mass inc. Air Load	148 grams
Minimum Impedance Zmin	6.5 Ω
Effective Piston Diameter	14.84" / 376.93 mm
Peak Displacement Volume of Cone Vd	0.907 litres
Magnetic Gap Depth	0.43" / 11 mm
Flux Density	1.1 Tesla
Coil Winding Height	0.87" / 22 mm
Voice Coil Diameter	4.0" / 101.6 mm

MOUNTING / SHIPPING INFORMATION		
Overall Diameter	19.1" / 485 mm	
Width Across Flats	18" / 457.2 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	7.79" / 198 mm	
Weight	16.10 lb / 7.55 kg	
Recommended Enclosure Volume	4.41 - 14.12 cu ft / 125 - 400 litres	
Shipping Weight	21 lb / 9.55 kg	
Packing Carton Dimensions	520 x 520 x 250 mm	

THE NEODYMIUM SERIES **COLOSSUS 18-800N BASS DRIVER**



- · Lightweight neodymium magnet assembly.
- Weighs only 7.55 kg.

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- Tight punchy bass combined with high levels of excursion.
- Laminated silicone suspension.
- Delivers bass down to 35 Hz in a 200 litre ported enclosure.

COLOSSUS 18-800N

THIELE SMALL PARAMETERS

FS Hz	38 Hz
RE Ohms	5.2 Ω
Qms	5.27
Qes	0.325
Qts	0.306
Vas Ltr	217 litres
Vd litres	0.95 litres
CMS (mm/N)	0.12 mm/N
BL T/m	24 T/m
Mms (grms)	148 grams
Xmax (mm)	8 mm
Sd (cm²)	1133 cm ²
Efficiency %	3.50%
Le (1k Hz)	1.96 mH

MATERIALS OF CONSTRUCTION	
Former Material	Glass Fibre
Voice Coil	Aluminium - Inside / Outside Windings
Magnet Material	Neodymium
Chassis	Die-cast Aluminium
Cone	Curvilinear Polycellulose
Surround / Edge Termination	Polyvinyl Damped Dbl. Half Rol Poly Cottor
Dust Dome	Solid Paper
Connectors	Push-button Spring Terminals
Polarity	Positive voltage at red termina 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 40 Hz and 400 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