FΛNE



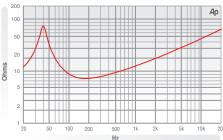
COLOSSUS 18-800N

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.

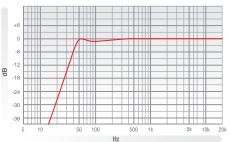
FREQUENCY RESPONSE DATA*



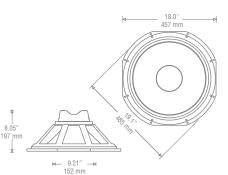
IMPEDANCE



PREDICTED BASS RESPONSE



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



| Nominal Chassis Diameter | 18" |
|--|-----------------|
| 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" / 377 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 |
| | |

ELECTRO ACOUSTIC SPECIFICATIONS

| MATERIALS OF CONSTRUCTION | |
|-----------------------------|--|
| Former Material | Glass Fibre |
| Voice Coil | Aluminium 'sandwich' inside and outside windings |
| Magnet Material | Neodymium |
| Chassis | Die-cast Aluminium |
| Cone | Curvilinear polycellulose |
| Surround / Edge Termination | Polyvinyl Damped Dbl Half Roll Linen |
| Dust Dome | Solid Paper |
| Connectors | Push-button Spring Terminals |
| Polarity | Positive Voltage at Red Terminal Causes Forward Motion of Cone |

| THIELE SWALL PARAMETERS | |
|-------------------------|--|
| 38 Hz | |
| 5.2 Ω | |
| 5.27 | |
| 0.325 | |
| 0.306 | |
| 217 | |
| 0.95 | |
| 0.12 | |
| 24 | |
| 148 | |
| 8 | |
| 1133 | |
| 3.5 | |
| 1.96 mH | |
| | |

THIELE CMALL DADAMETER

| 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" / 420 mm |
| Baffle Hole Diameter R/M | 16.33" / 414 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 | 7.75" / 197 mm |
| Weight | 16.10 lb / 7.55 kg |
| Recommended Enclosure Volume | 4.41 - 14.12 cu ft / 125 - 400 litres |
| Shipping Weight | 21.00 lb / 9.55 kg |
| Packing Carton Dimensions | 520 x 520 x 250 mm |

• 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.