



THE PROFESSIONAL SERIES **COLOSSUS 12BM**

BASS / MID RANGE DRIVER

12" / 304.8 mm CHASSIS DIAMETER

450 w (A.E.S.) POWER HANDLING

98 dB SENSITIVITY (1w / 1m)

40 Hz - 3.5 kHz

3.0" / 76.2 mm COPPER VOICE COIL

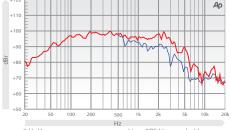
Suited for 25-80 litre ported enclosures

- FREQUENCY RESPONSE
- Non inductive motor system reduces distortion.
- Fast dynamic response combined with superior suspension material.
- High BL, 21 T/m.
- UK manufactured cone with optimised pulp offering increased strength, durability and performance.

unit features a 3 inch 'sandwich' inside and outside windings voice coil driven by a non-inductive motor system which dramatically reduces third-harmonic and intermodulation distortion. The cone membrane, manufactured from bespoke paper pulp allows the driver to combine high-sensitivity with the structural integrity required to produce undistorted low frequencies at high output levels. The mechanical and electrical properties of the unit have been carefully optimised to allow extended low frequency output up to its rated power handling of 450 Watts (A.E.S) continuous, with peak power handling in excess of 1800 Watts. The driver exhibits an average sensitivity of 98 dB and is best used in ported enclosures of 25 to 80 litres.

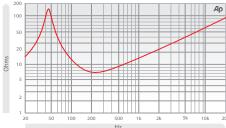
The Colossus 12BM is intended for use as a very high-output mid bass driver in two-way ported enclosures and also as a bass driver in multi way systems. The

FREGUENCY RESPONSE DATA

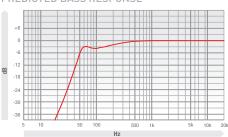


* Half space response measured in a 975 litre sealed box

IMPEDANCE



PREDICTED BASS RESPONSE



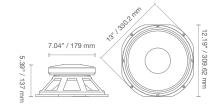
** Normalised bass response in 55 litre tuned to 55 Hz

INS
12" / 304.8 mm
4 /8 /16 Ω
450 w (A.E.S.)
1800 w (A.E.S.)
40 Hz - 3.5 kHz
98 dB
65 grams
7.5 Ω
10.24" / 260.09 mm
0.33 litres
93 oz
0.31" / 8 mm
1.16 Tesla
0.78" / 20 mm
3.0" / 76.2 mm

MOUNTING / SHIPPING INFORMATION	
Overall Diameter	13" / 330.2 mm
Width Across Flats	12.19" / 309.62 mm
Flange Height	0.305" / 7.8 mm
Baffle Hole Diameter F/M	11.03" / 280.16 mm
Baffle Hole Diameter R/M	10.13" / 257.30 mm
Gasket Supplied	Front & Rear
Fixing Holes	4x 0.218" diam on 12.5 PCD 4x 5.5 mm diam on 317.5 PCD
Depth	5.39" / 137 mm
Weight	17.97 lb / 8.15 kg
Recommended Enclosure Volume	0.88 - 2.83 cu ft / 25 - 80 litres
Shipping Weight	19.85 lb / 9 kg
Packing Carton Dimensions	340 x 340 x 222 mm

THIELE SMALL PARAMETERS	
FS Hz	43 Hz
RE Ohms	5.4 Ω
Qms	5.1
Qes	0.22
Ots	0.21
Vas Ltr	89 litres
Vd litres	0.33 litres
CMS (mm/N)	0.208 mm/N
BL T/m	21 T/m
Mms (grms)	65 grams
Xmax (mm)	6 mm
Sd (cm²)	550 cm ²
Efficiency %	3.10%
Le (1k Hz)	2.1 mH

MATERIALS OF CONSTRUCTION	
Former Material	Glass Fibre
Voice Coil	Copper
Magnet Material	Ferrite
Chassis	Die-cast Aluminium
Cone	Curvilinear Polycellulose
Surround / Edge Termination	Polyvinyl Damped Dbl. Half Roll Poly Cotton
Dust Dome	Solid 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 50 Hz and 500 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