

# THE PROFESSIONAL SERIES COLOSSUS 12B

BASS DRIVER

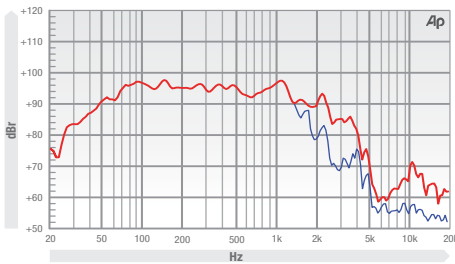


<b>12" / 304.8 mm</b> CHASSIS DIAMETER	<b>450 w (A.E.S.)</b> POWER HANDLING	<b>97 dB</b> SENSITIVITY (1w / 1m)
<b>45 Hz - 1 kHz</b> FREQUENCY RESPONSE	<b>3.0" / 76.2 mm</b> COPPER VOICE COIL	<b>10.5 mm Xmax</b>

### Product Features:

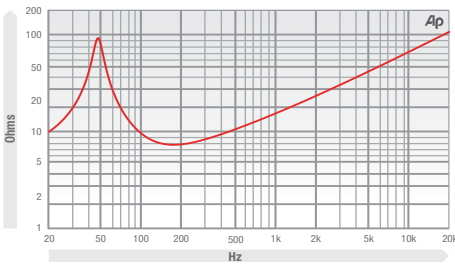
- Exceptional efficiency, power handling and frequency coverage from compact design.
- Works well in reflex enclosures producing soft, warm bass.
- Rugged die cast chassis
- UK manufactured cone offers increased strength, durability and performance.
- Extended usable frequency

### FREQUENCY RESPONSE DATA\*

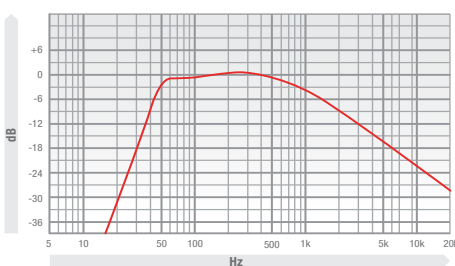


\* Half space response measured in a 965 litre sealed box. Blue Line = fundamental 45° off-axis

### IMPEDANCE



### PREDICTED BASS RESPONSE



\*\* Normalised bass response in 60 litre tuned to 50 Hz

### ELECTRO ACOUSTIC SPECIFICATIONS

Nominal Chassis Diameter	12" / 304.8 mm
Impedance	4/ 8/ 16 Ω
Power Handling	450 w (A.E.S.)
Peak Power (6dB Crest Factor)	1800 w (A.E.S.)
Usable Frequency Range -6dB	45 Hz - 1 kHz
Sensitivity (1 w - 1 m)	97 dB
Moving Mass inc. Air Load	64.8 grams
Minimum Impedance Zmin	6.24 Ω
Effective Piston Diameter	10.24" / 260.00 mm
Peak Displacement Volume of Cone Vd	0.56 litres
Magnet Weight	81.13 oz
Magnetic Gap Depth	0.32" / 8.00 mm
Flux Density	1 Tesla
Coil Winding Height	0.98" / 25.00 mm
Voice Coil Diameter	3.0" / 76.2 mm

### MOUNTING / SHIPPING INFORMATION

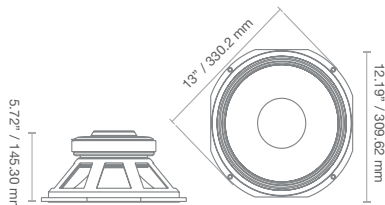
Overall Diameter	13" / 330.2 mm
Width Across Flats	12.19" / 309.62 mm
Flange Height	0.305" / 7.8 mm
Baffle Hole Diameter F/M	11.03" / 280.16 mm
Baffle Hole Diameter R/M	10.13" / 257.30 mm
Gasket Supplied	Front & Rear
Fixing Holes	4x 5.5 mm ∅ on 317.5 mm PCD
Depth	Not Applicable
Weight	5.72" / 145.30 mm
Recommended Enclosure Volume	14.50 lb / 6.58 kg
Shipping Weight	25-60 litres
Packing Carton Dimensions	16.00 lb / 7.26 kg
	340 x 340 x 222 mm

### THIELE SMALL PARAMETERS

FS Hz	47 Hz
RE Ohms	5.2 Ω
Qms	6.321
Qes	0.375
Qts	0.354
Vas Ltr	71 litres
Vd litres	0.56 litres
CMS (mm/N)	0.177 mm/N
BL T/m	16.5 T/m
Mms (grams)	64.8 grams
Xmax (mm)	10.5 mm
Sd (cm²)	531.6 cm²
Efficiency %	1.895%
Le (1k Hz)	2.36 mH

### MATERIALS OF CONSTRUCTION

Former Material	Glass Fibre
Voice Coil	Copper
Magnet Material	Ferrite
Chassis	Die-cast Aluminium
Cone	Paper
Surround / Edge Termination	Polyvinyl Damped Multi Roll, Poly Cotton
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 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.