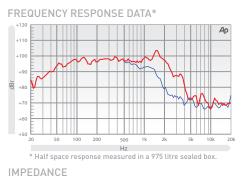
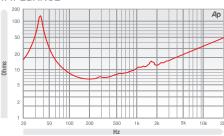
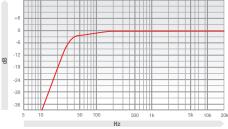


The Colossus 18XB is intended for use as a high-output sub-bass driver either singly or in multi way systems. The unit features a 4 inch 'sandwich' inside and outside windings voice coil, immersed in a symmetric magnetic field and centralized by using two suspensions in a dual arrangement to maintain ultra linearity and stability at high excursions. The heavily ribbed straight-sided paper cone membrane is reinforced with high-strength composite fibres to resist deformation under extreme loads. The driver handles 1000 Watts (A.E.S.) continuous and can cope with peaks in excess of 4000 Watts. This is due to advanced thermal management in the form of a vented die-cast chassis and motor system using an internal heatsink coupled to a large vaned heatsink mounted on the rear of the unit. These measures effectively remove heat from the voice coil resulting in extremely low-power compression. The Colossus 18XB is designed for use in 100 to 250 litre ported enclosures.

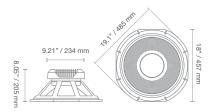




PREDICTED BASS RESPONSE



\*\* Normalised bass response in 175 litre tuned to 33 Hz



## ELECTRO ACOUSTIC SPECIFICATIONS

Nominal Chassis Diameter	18" / 457.2 mm
Impedance	4 /8 /16 Ω
Power Handling	1000 w (A.E.S.)
Peak Power (6dB Crest Factor)	4000 w (A.E.S.)
Usable Frequency Range -6dB	35 Hz - 1 kHz
Sensitivity (1 w - 1 m)	99 dB
Moving Mass inc. Air Load	173 grams
Minimum Impedance Zmin	6.5 Ω
Effective Piston Diameter	15.03" / 381.76 mm
Peak Displacement Volume of Cone Vd	0.803 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

**18'' / 457.2 mm** CHASSIS DIAMETER

35 Hz - 1 kHz

FREQUENCY RESPONSE

High BL factor 25.9 T/m.

Deep, warm, well controlled bass reproduction.

for increased strength, durability and performance.

## MOUNTING / SHIPPING INFORMATION

19.1" / 485 mm	
18" / 457 mm	
0.465" / 11.8 mm	
16.53" / 419.86 mm	
16.33" / 414.78 mm	
Front & Rear	
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	
8.05" / 205 mm	
31.29 lb / 14.2 kg	
3.53 - 8.82 cu ft / 125 - 400 litres	
35.26 lb / 16 kg	
250 x 520 x 520 mm	

## THIELE SMALL PARAMETERS

FS Hz	33 Hz
RE Ohms	6.5 Ω
Qms	5.77
Qes	0.358
Qts	0.337
Vas Ltr	236 litres
Vd litres	0.803 litres
CMS (mm/N)	0.13 mm/N
BL T/m	25.9 T/m
Mms (grms)	173 grams
Xmax (mm)	7.5 mm
Sd (cm²)	1131 cm <sup>2</sup>
Efficiency %	2.30%
Le (1k Hz)	1.99 mH

## MATERIALS OF CONSTRUCTION

Former Material	Glass Fibre
Voice Coil	Copper - Inside / Outside Windings
Magnet Material	Ferrite
Chassis	Die-cast Aluminium
Cone	Straight Polycellulose Ribbed Cone
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

**"HE PROFESSIONAL SERIES** 

| COLOSSUS 18XE



• Please enquire about alternative impedances

- A.E.S. power handling test. Pink noise bandpass filtered at 12 dB per octave with cutoff frequencies of 30 Hz and 300 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



SUB BASS DRIVER

SENSITIVITY (1w / 1m)

Designed for 100-250

litre ported enclosures

**99** dB

THE PROFESSIONAL SERIES

1000 w (A.E.S.)

4.0" / 101.6 mm COPPER - INSIDE / OUTSIDE WINDINGS VOICE COIL

POWER HANDLING

Ribbed, fibre loaded, UK manufactured ribbed straight sided cone

**COLOSSUS 18XB**