



## KEY FEATURES:

- 115 mm (4.5") high temperature sandwich voice coil
- 3000 W AES program power
- Powerful, vented 245 mm magnet structure
- Double aluminium demodulating ring for lower distortion and improved heat dissipation
- Double silicone spider assembly for improved excursion control and linearity
- Water protected cone with carbon fibers
- Epoxy anti-corrosion coating of top and back plates of the magnet structure

**PART NUMBER:** 11118F1108

## Application : Power bass

The **18XB1500v2** ferrite bass loudspeaker is specially designed for horn application to deliver very high impact bass response, with exceptional high power capacity. It incorporates an 4.5" sandwich voice coil, double silicone spider assembly, paper cone with carbon fibers and die cast vented aluminium frame. Powerful, vented magnetic structure with double demodulating rings reduced power compression. The top and back plates are treated with special high quality epoxy electro-deposition coating, which extremely improves the corrosion resistance of the speaker. The result is high efficient transducer for bass horn applications, with the ability to handle high excursion with low distortion and reduced thermal power compression.

### SPECIFICATIONS

Nominal Diameter 18"/461 inch/mm  
Impedance 8 Ohm  
Minimum Impedance 6.18 Ohm  
Power Capacity AES <sup>1</sup> 1500 W  
Program Power <sup>2</sup> 3000 W  
Sensitivity depends on the horn  
Frequency Range 30 - 1000 Hz  
Voice Coil Diameter 115 mm (4.5")  
Voice Coil Material Copper  
Voice Coil Former Glassfiber  
V. C. Winding Depth 29 mm  
Magnet Gap Depth 14 mm  
Cone Material paper with carbon fibers  
Basket Die cast aluminium  
Magnet Ferrite  
Flux Density 1.10 T

### THIELE-SMALL PARAMETERS

Fs 35.8 Hz  
Qms 10.52  
Qes 0.229  
Qts 0.225  
Vas 192.5 Litres  
Mms 212 grams  
Re 5.28 Ohms  
Sd 1158 cm<sup>2</sup>  
Xmax\* ± 11 mm  
Cms 0.112 mm/N  
BL 31.58 T.m  
Le at 1kHz 1.53 mH

### MOUNTING INFORMATION

Overall Diameter 462 mm  
Baffle Hole Diameter 410 mm  
Mounting Holes 8 elliptic 7 x 8.5 mm  
Bolt Circle Diameter 441 mm  
Overall Depth 207.5 mm  
Net Weight 18.2 kg

1. AES standard. Power is calculated on rated minimum impedance. Measurement is in 180 L box enclosure tuned 43 Hz using a 40-400 Hz band limited pink noise test signal applied continuously for 2 hours.
2. Program power is defined as 3db greater than AES Power Capacity.

\* Linear Mathematical Xmax is calculated as:  $(H_{vc} - H_g)/2 + H_g/4$  where  $H_{vc}$  is the voice coil depth and  $H_g$  is the gap depth.

### RECONE KIT:

RK18XB1500v2 - Part No:R1118F1108

## Drawings

