

## 18" - Bass Driver

## Pro PA Range

### Applications: Bass in Horn PA Systems

- 1000 Watt (AES)
- Exceptionally Low Power Compression
- 18" Radial Chassis
- Optimised For Horn Enclosures
- 4" Voice Coil
- Net Weight: 17 Kgs



The RV4514 features three cooling systems. In addition to the usual vented magnet it also uses the patented Radial chassis, which acts as a giant heatsink, plus a multi-finned magnet intercooler. This keeps voice coil temperatures exceptionally low resulting in 3dB less power compression and tight, clean bass after prolonged operation at maximum power. The RV4514 also has a 4" (100mm) 4 layer voice coil, double rear suspensions, double roll linen surround, carbon fibre reinforced cone and a symmetrical field magnet for greater efficiency, linearity and control than alternative conventional loudspeakers. The result is a loudspeaker with Thiele-Small parameters optimised for use with horn systems enabling high SPL and low bass extension. Maximum damage limited cone excursion is 50 mm (2"). The uniquely designed RV4514 uses Radial Technology to enable exceptional power handling and reliability.

#### Specifications

Nominal Diameter	450 mm
Power Rating	1000 Watts
Sensitivity (1w / 1m)	98 dB
Frequency Range	30 - 500Hz
Nominal Impedance	4 or 8 ohms
BL Factor	22 N/A
Voice Coil Diameter	100 mm
Voice Coil Material	Copper
Maximum Excursion	50 mm (peak to peak)
Magnetic Assembly Weight	11.5 Kgs
Effective Moving Mass	0.12 Kgs
Compliance	0.00011 M/N
Volume Displacement	16 Litres
Connection	Metal Push Terminals
Chassis	Diecast Aluminium

#### Thiele-Small Parameters

Fs	44 Hz
Re	5.6 Ohms
Qa	4.6
Qe	0.4
Qt	0.37
Vas	161 Litres
Xmax	±10 mm
Sd	1029 cm <sup>2</sup>
Vd	1029 cm <sup>3</sup>
Le	3.1 mH

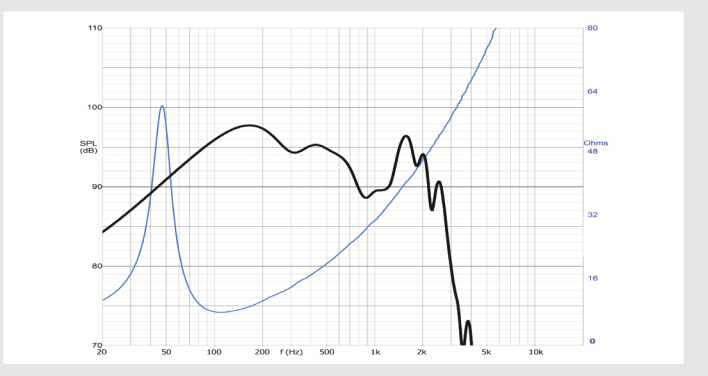
#### Mounting Information

Overall Diameter	459 mm
Fixing Bolt Diameter	440 mm
Fixing Holes	8 x M6
Front Mount Cut-out Diameter	417 mm
Suggested Rebate Depth	14 mm
Depth Below Front Flange	215 mm
Total Depth	229 mm
Weight	17 Kgs

#### Suggested Enclosures

Volume in Litres	80	120	160
Vent diameter in Cm	4x10	4x10	4x10
Vent length in Cm	34	25	22
System Q	10	10	10
-3dB Freq in Hz	55	45	40

#### Response Curve



#### Dimensions

