

**18DS100** 4 Ω**Subwoofer**

- 3000 W continuous program power capacity
- 100 mm (4 in) copper voice coil
- 32 - 1000 Hz response
- 98 dB sensitivity
- Excursion optimized lead wires (woven through spider)
- Double silicone spider with optimized compliance
- Ventilated voice coil gap for reduced power compression
- Aluminium demodulating ring for very low distortion

This next evolution subwoofer uses a new, longer, four layer aluminum voice coil. The result is less heat, more energy in the gap, higher sensitivity, higher power handling, lower distortion and better overall performance. The 18DS100 features a 36mm long, 4 inch diameter (100mm) Copper Clad Aluminum Wire voice coil. With a 1500watt AES power rating, 98 dB sensitivity, and over 14.0mm of Xvar, this high energy subwoofer is a significant step forward from similar models in the B&C range.



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## Subwoofer

**SPECIFICATIONS**

Nominal Diameter	<b>460 mm (18 in)</b>
Nominal Impedance	<b>4 Ω</b>
Minimum Impedance	<b>4 Ω</b>
Nominal Power Handling	<b>1500 W</b>
2 hours test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance. Loudspeaker in free air.	
Continuous Power Handling	<b>3000 W</b>
Power on Continuous Program is defined as 3 dB greater than the Nominal rating.	
Sensitivity	<b>98 dB</b>
Applied RMS Voltage is set to 2 V for 4 ohms Nominal Impedance.	
Frequency Range	<b>32 Hz - 1000 Hz</b>
Voice Coil Diameter	<b>100 mm (4 in)</b>
Winding Material	<b>Aluminium</b>
Former Material	<b>Glass Fibre</b>
Winding Depth	<b>36 mm (1.42 in)</b>
Magnetic Gap Depth	<b>16 mm (0.63 in)</b>
Flux Density	<b>0.7 T</b>
Woofer Cone Treatment	<b>TWP Waterproof Both Sides</b>

**PARAMETERS**

Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

Fs	<b>32 Hz</b>
Re	<b>2.5 Ω</b>
Qes	<b>0.24</b>
Qms	<b>10</b>
Qts	<b>0.24</b>
Vas	<b>157 dm<sup>3</sup> (5.54 ft<sup>3</sup>)</b>
Sd	<b>1210 cm<sup>2</sup> (187.55 in<sup>2</sup>)</b>
η <sub>0</sub>	<b>2.32 %</b>
X <sub>max</sub>	<b>14 mm</b>
X <sub>var</sub>	<b>14 mm</b>
M <sub>ms</sub>	<b>300 g</b>
Bl	<b>24.3 Tm</b>
Le	<b>2.82 mH</b>
EBP	<b>133 Hz</b>

**DESIGN**

Surround Shape	<b>Triple Roll</b>
Cone Shape	<b>Radial</b>
Magnet Material	<b>Neodymium Inside Slug</b>
Spider	<b>Double Silicone</b>
Pole Design	<b>T-Pole</b>
Woofer Cone Treatment	<b>TWP Waterproof Both Sides</b>
Recommended Enclosure	<b>200 dm<sup>3</sup> (7.06 ft<sup>3</sup>)</b>
Recommended Tuning	<b>35 Hz</b>

**MOUNTING AND SHIPPING INFO**

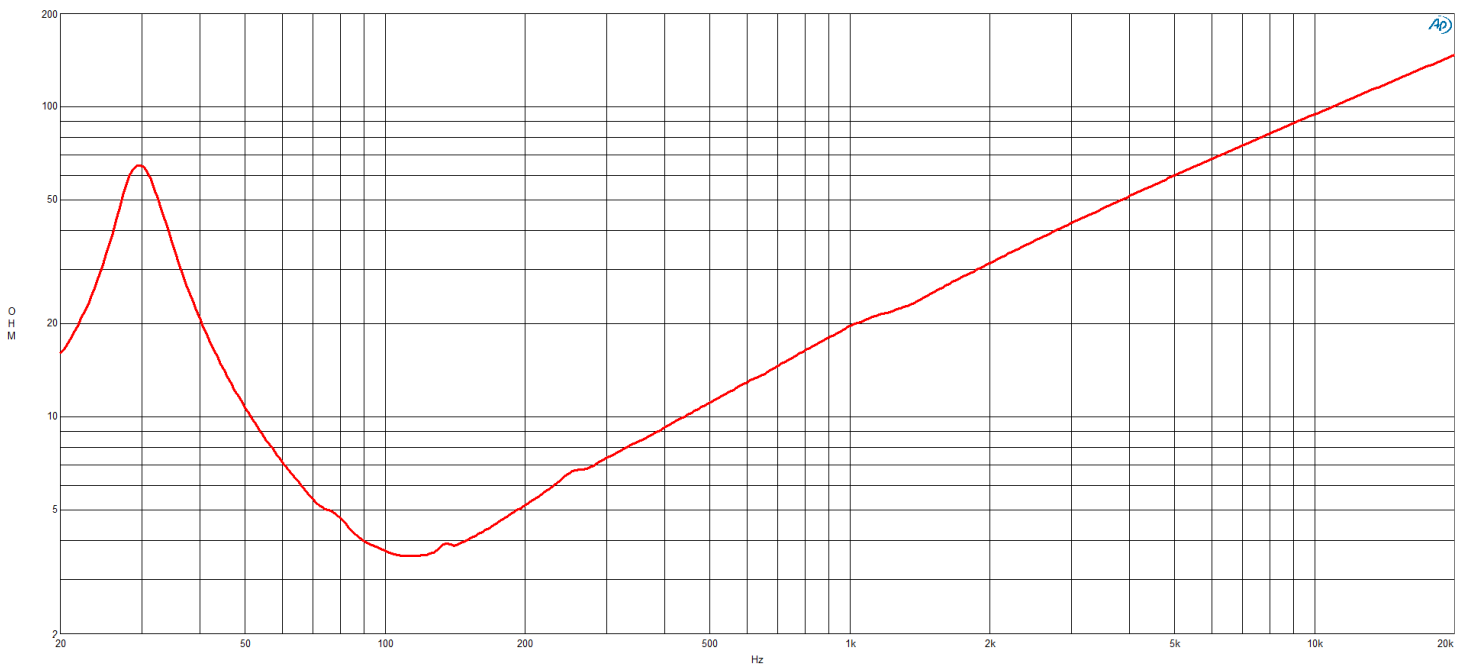
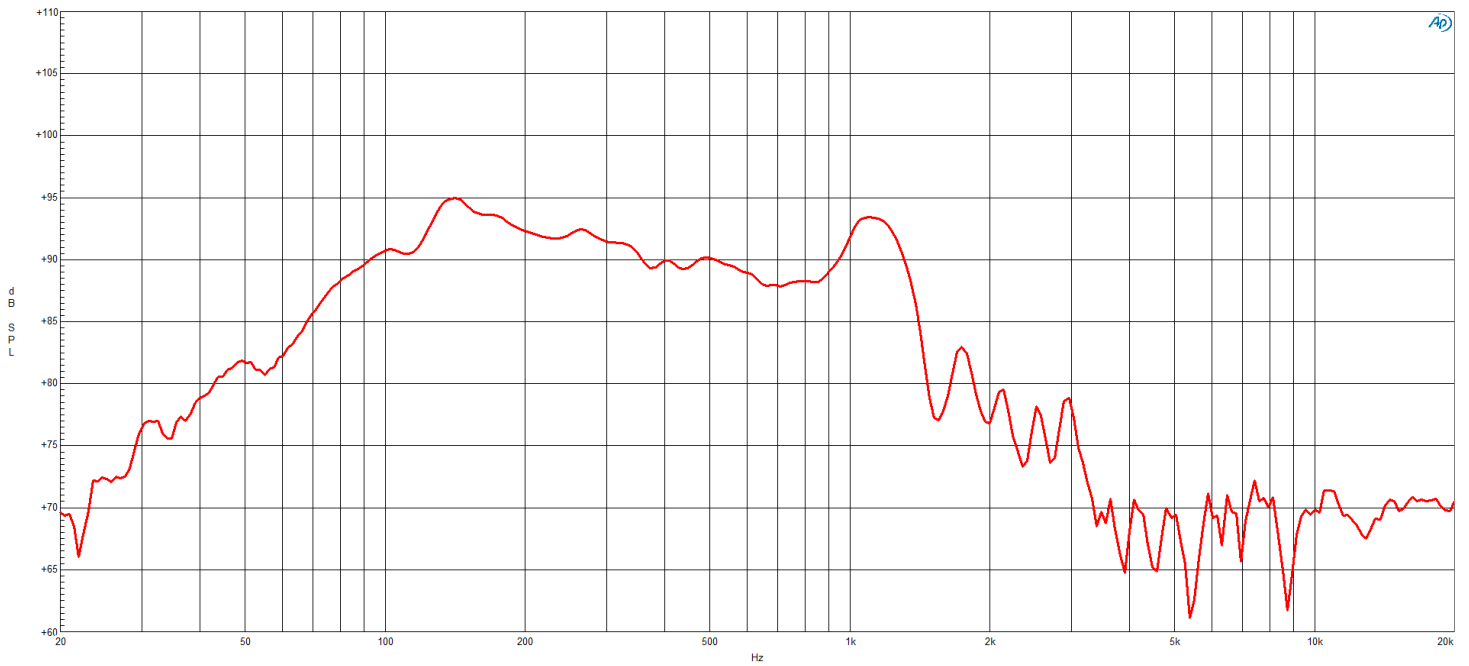
Overall Diameter	<b>460 mm (18 in)</b>
Bolt Circle Diameter	<b>442 mm (17.4 in)</b>
Baffle Cutout Diameter	<b>422 mm (16.61 in)</b>
Depth	<b>239 mm (9.41 in)</b>
Flange and Gasket Thickness	<b>16 mm (0.63 in)</b>
Air Volume Occupied by Driver	<b>10 dm<sup>3</sup> (0.35 ft<sup>3</sup>)</b>
Net Weight	<b>10.5 kg (23.15 lb)</b>
Shipping Units	<b>1 pcs</b>
Shipping Weight	<b>12.3 kg (27.12 lb)</b>
Shipping Box	<b>500x500x300 mm (19.69x19.69x11.81 in)</b>

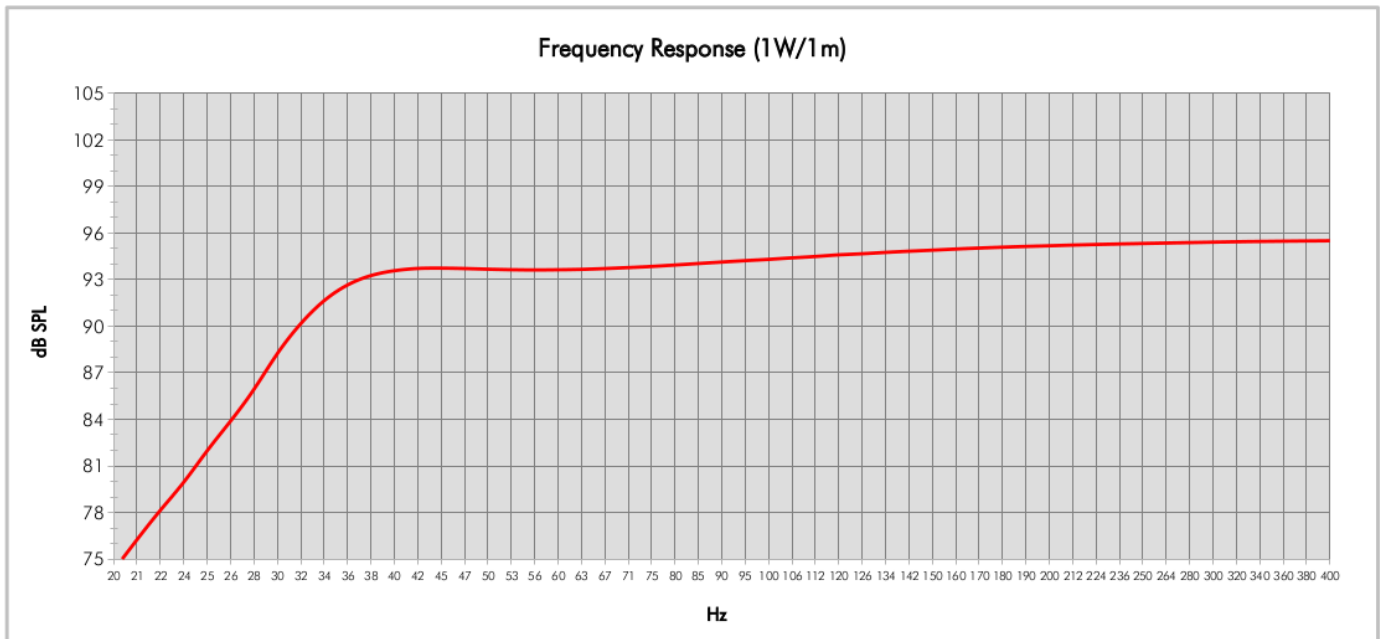
**SERVICE KITS**

LF recone-kits	<b>RCK18DS1004</b>
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Model:	<b>18DS100</b>	Configuration:	<b>One Driver</b>
Enclosure Type:	<b>Bass Reflex</b>		
Internal Net Volume (Litres):	<b>200</b>	QB:	<b>4</b>
Tuning Frequency (Hz):	<b>35</b>	Port Area (cm <sup>2</sup> ):	<b>400,0</b>
Frequency (-3 dB) (Hz):	<b>35,9</b>	Port Length (cm):	<b>29,4</b>
Frequency (-10 dB) (Hz):	<b>27,8</b>		

