18DS100 8 Ω

Subwoofer

- 3000 W continuous program power capacity
- 100 mm (4 in) copper voice coil
- 34 - 1000 Hz response
- 97.5 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 36.5 mm long, 4 inch diameter (100mm) Copper Clad Aluminum Wire voice coil. With a 1500watt AES power rating, 97.5 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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SPECIFICATIONS

Nominal Diameter	**460 mm (18 in)**
Nominal Impedance	**8 Ω**
Minimum Impedance	**6.1 Ω**
Nominal Power Handling 2 hours test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minumum impedance. Loudspeaker in free air.	**1500 W**
Continuous Power Handling Power on Continuous Program is defined as 3 dB greater than the Nominal rating.	**3000 W**
Sensitivity Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.	**97.5 dB**
Frequency Range	**34 Hz - 1000 Hz**
Voice Coil Diameter	**100 mm (4 in)**
Winding Material	**Aluminium**
Former Material	**Glass Fibre**
Winding Depth	**36.5 mm (1.44 in)**
Magnetic Gap Depth	**16 mm (0.63 in)**
Flux Density	**0.7 T**
Woofer Cone Treatment	**TWP Waterproof Both Sides**

PARAMETERS

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

Fs	**34 Hz**
Re	**4.5 Ω**
Qes	**0.3**
Qms	**9.5**
Qts	**0.29**
Vas	**155 dm^3 (5.47 ft^3)**
Sd	**1210 cm^2 (187.55 in^2)**
η0	**2.1 %**
Xmax	**14.5 mm**
Xvar	**14 mm**
Mms	**278 g**
Bl	**30 Tm**
Le	**4.4 mH**
EBP	**113 Hz**

DESIGN

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

MOUNTING AND SHIPPING INFO

Overall Diameter	**460 mm (18 in)**
Bolt Circle Diameter	**442 mm (17.4 in)**
Baffle Cutout Diameter	**425 mm (16.73 in)**
Depth	**239 mm (9.41 in)**
Flange and Gasket Thickness	**16 mm (0.63 in)**
Air Volume Occupied by Driver	**10 dm^3 (0.35 ft^3)**
Net Weight	**10.5 kg (23.15 lb)**
Shipping Units	**1 pcs**
Shipping Weight	**12.3 kg (27.12 lb)**
Shipping Box	**500x500x300 mm (19.69x19.69x11.81 in)**

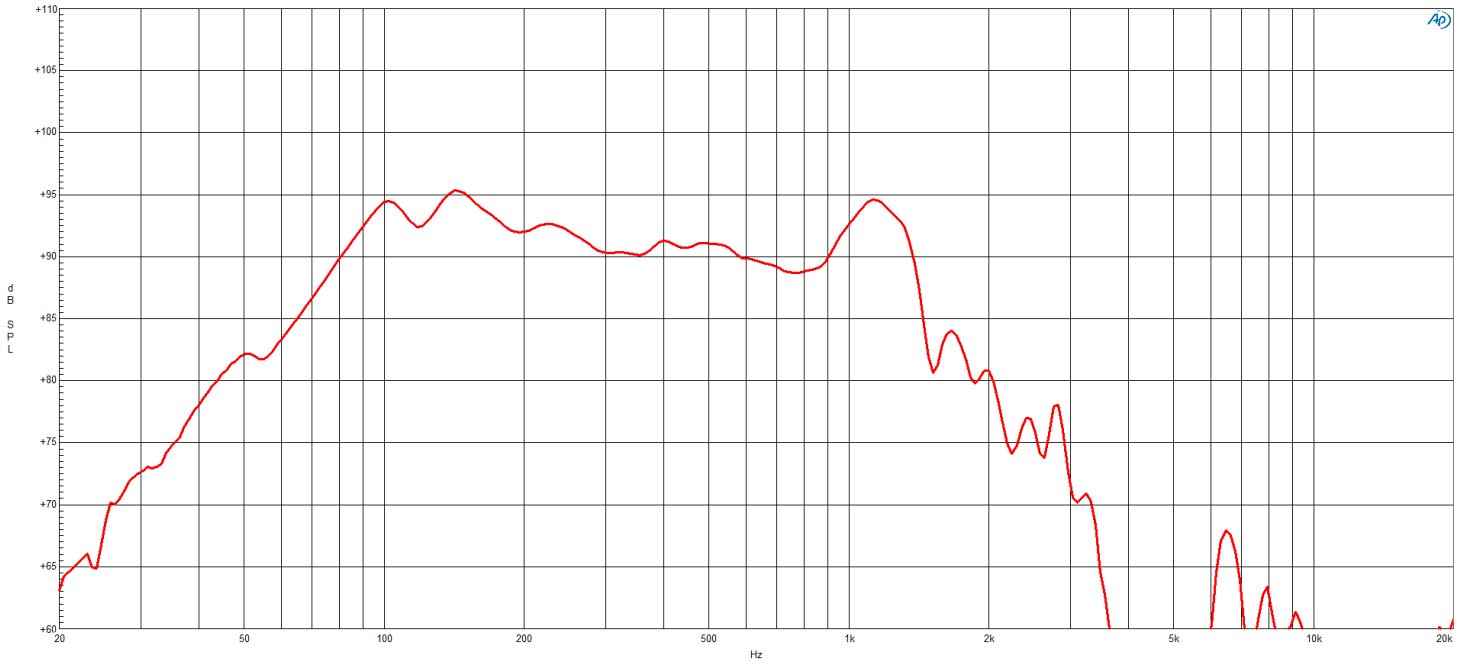
SERVICE KITS

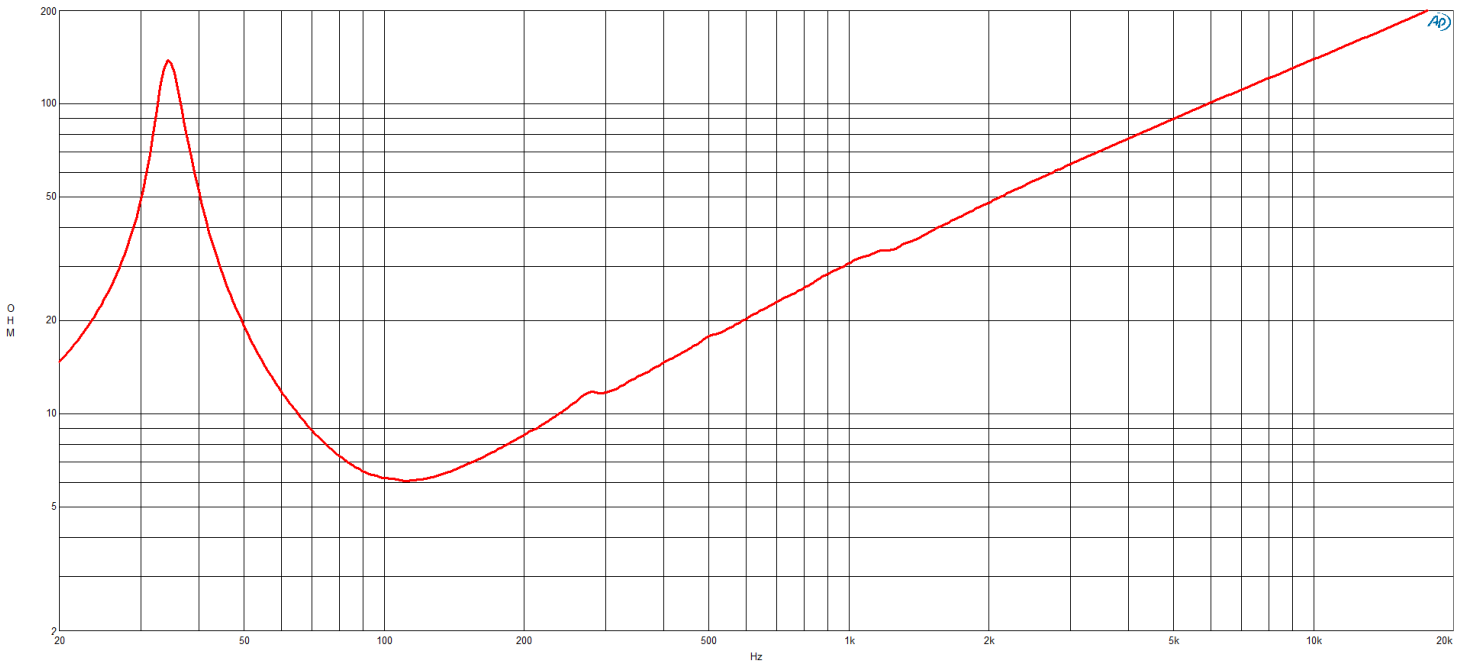
LF recone-kits	**RCK18DS1008**

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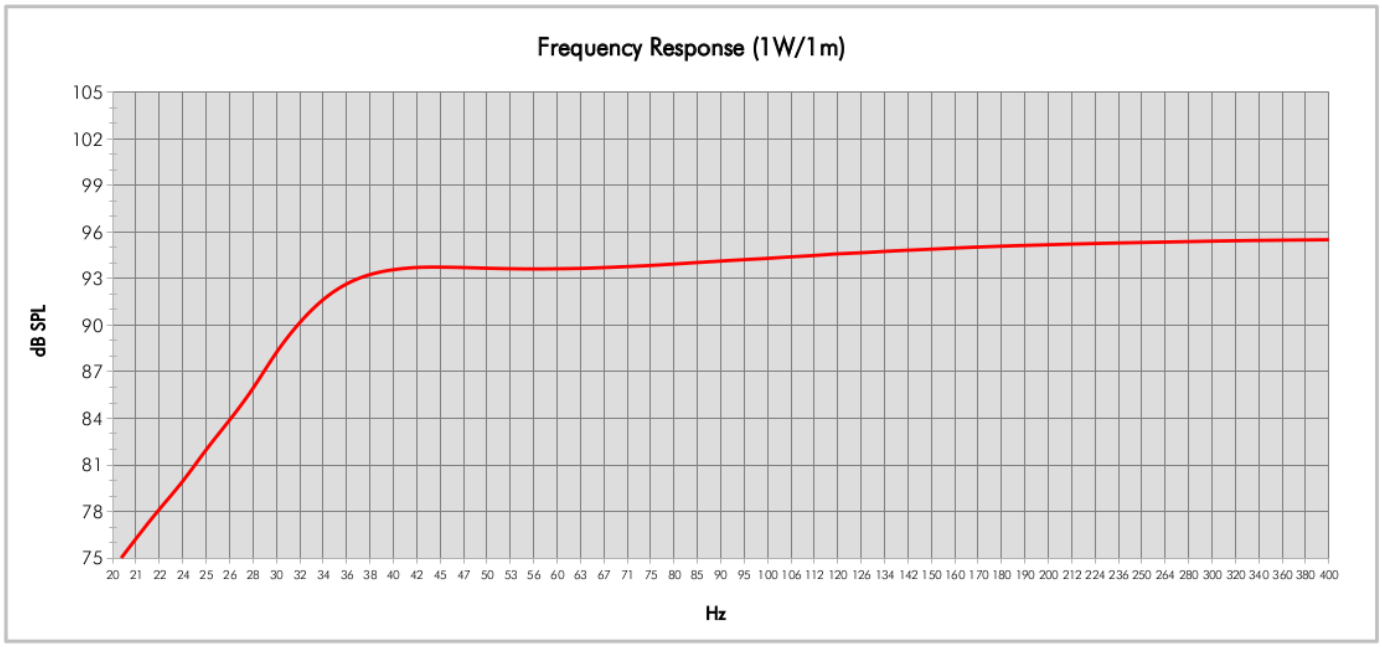
Subwoofer





18DS100 8 Ω

Subwoofer



Model:	**18DS100**		
Enclosure Type:	**Bass Reflex**	Configuration:	**One Driver**
Internal Net Volume (Litres):	**200**	QB:	**4**
Tuning Frequency (Hz):	**35**	Port Area (cm²):	**400,0**
Frequency (-3 dB) (Hz):	**35,9**	Port Length (cm):	**29,4**
Frequency (-10 dB) (Hz):	**27,8**		

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