

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.



18DS100 8 Ω

Subwoofer

SPECIFICATIONS

| | |
|---|----------------------------------|
| Nominal Diameter | 460 mm (18 in) |
| Nominal Impedance | 8 Ω |
| Minimum Impedance | 6.1 Ω |
| Nominal Power Handling | 1500 W |
| 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 | 3000 W |
| Power on Continuous Program is defined as 3 dB greater than the Nominal rating. | |
| Sensitivity | 97.5 dB |
| Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance. | |
| 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 dm³ (5.47 ft³) |
| Sd | 1210 cm² (187.55 in²) |
| η ₀ | 2.1 % |
| X _{max} | 14.5 mm |
| X _{var} | 14 mm |
| M _{ms} | 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 dm³ (7.06 ft³) |
| Recommended Tuning | 35 Hz |

MOUNTING AND SHIPPING INFO

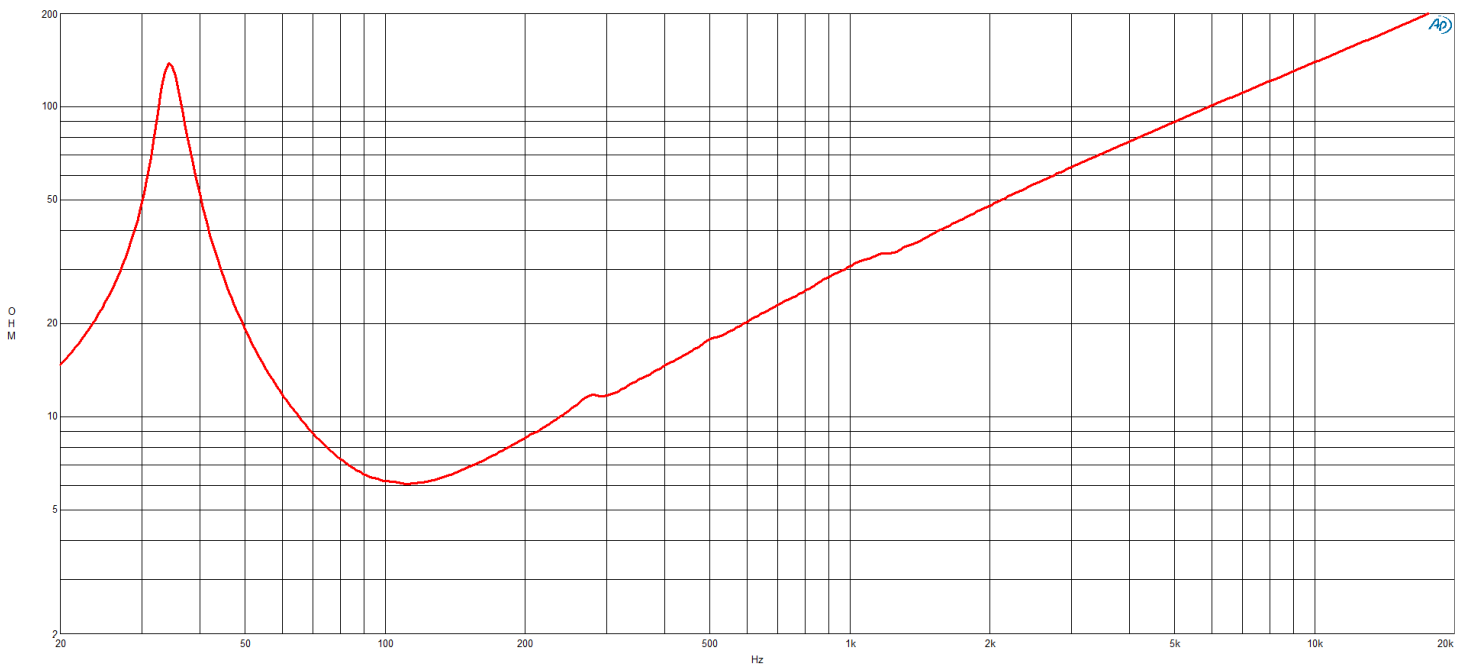
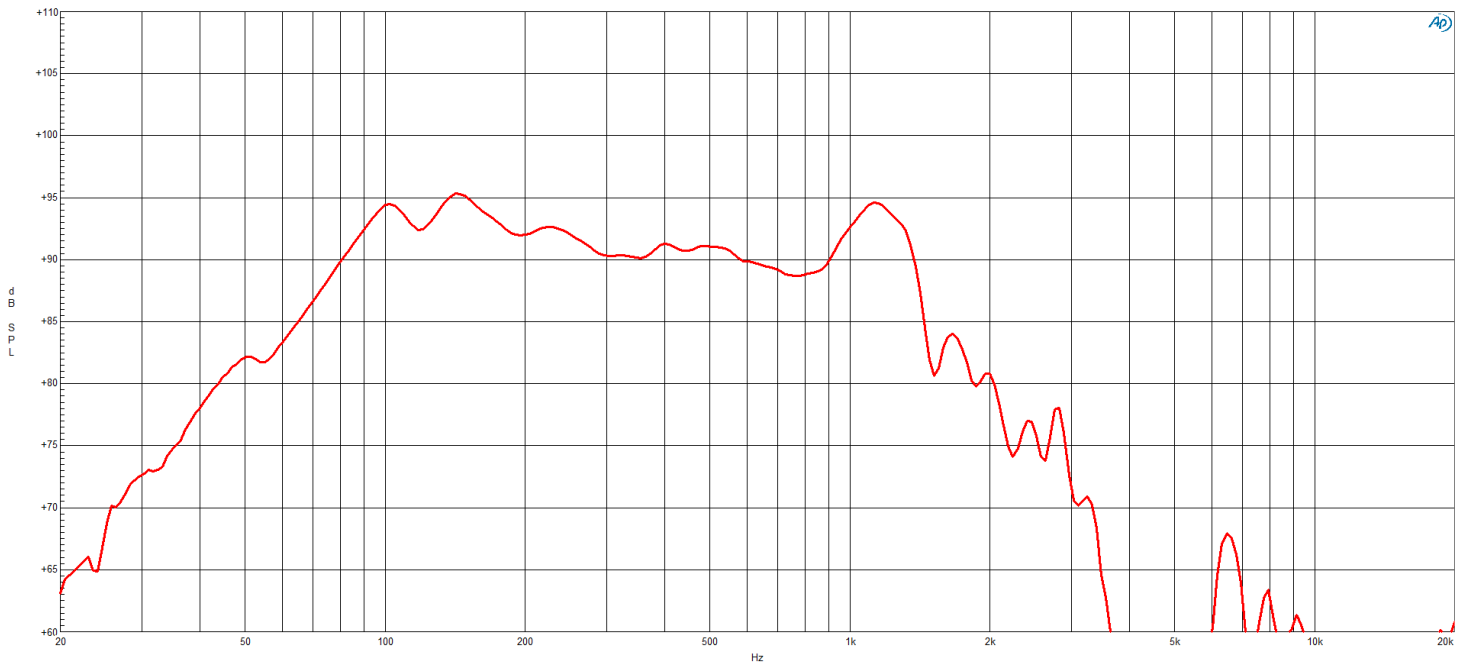
| | |
|-------------------------------|--|
| Overall Diameter | 460 mm (18 in) |
| Bolt Circle Diameter | 442 mm (17.4 in) |
| Baffle Cutout Diameter | 425 mm (16.73 in) |
| Depth | 239 mm (9.41 in) |
| Flange and Gasket Thickness | 16 mm (0.63 in) |
| Air Volume Occupied by Driver | 10 dm³ (0.35 ft³) |
| 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) |

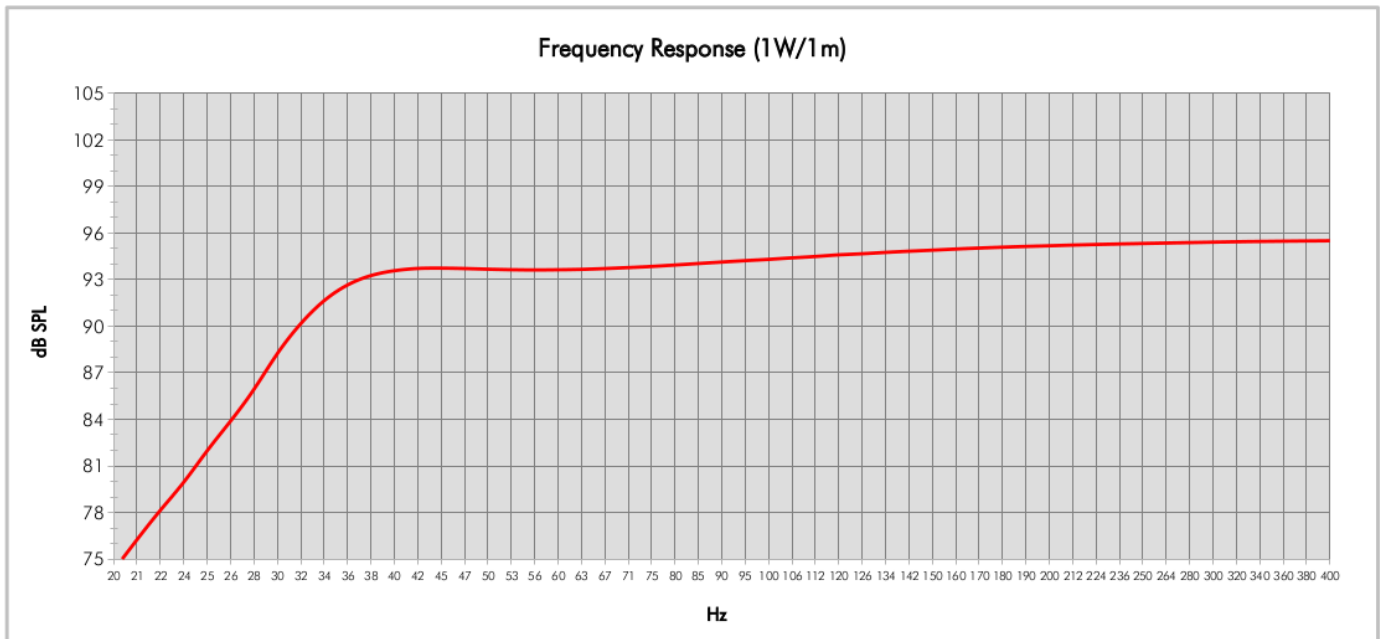
SERVICE KITS

| | |
|----------------|--------------------|
| LF recone-kits | RCK18DS1008 |
|----------------|--------------------|

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

