18DS115 8 Ω

Subwoofer

- 3400 W continuous program power capacity
- 116 mm (4.5 in) four layer aluminum voice coil
- 30 - 500 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 more energy in the gap, less heat, higher sensitivity, higher power handling, lower distortion and better overall performance. The 18DS115 features a 40mm long, 4.5 inch diameter (116mm) Copper Clad Aluminum Wire voice coil. With a 1700watt 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.





B&C Speakers S.p.A. Via Poggiomoro, 1 - Loc. Vallina, 50012 Bagno a Ripoli (FI) | ITALY
Tel. +39 055 65721 | Fax +39 055 6572312 | mail@bcspeakers.com

18DS115 8 Ω

Subwoofer

SPECIFICATIONS

Nominal Diameter	**460 mm (18 in)**
Nominal Impedance	**8 Ω**
Minimum Impedance	**7 Ω**
Nominal Power Handling	**1700 W**
2 hours test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minumum impedance. Loudspeaker in free air.	
Continuous Power Handling	**3400 W**
Power on Continuous Program is defined as 3 dB greater than the Nominal rating.	
Sensitivity	**98 dB**
Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.	
Frequency Range	**30 Hz - 500 Hz**
Voice Coil Diameter	**116 mm (4.5 in)**
Winding Material	**Aluminium**
Former Material	**Glass Fibre**
Winding Depth	**40 mm (1.57 in)**
Magnetic Gap Depth	**14 mm (0.55 in)**
Flux Density	**0.8 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	**30 Hz**
Re	**5 Ω**
Qes	**0.21**
Qms	**4.3**
Qts	**0.2**
Vas	**168 dm³ (5.93 ft³)**
Sd	**1210 cm² (187.55 in²)**
η0	**2.2 %**
Xmax	**16.5 mm**
Xvar	**14 mm**
Mms	**330 g**
Bl	**39 Tm**
Le	**3.85 mH**
EBP	**143 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	**100 dm³ (3.53 ft³)**
Recommended Tuning	**40 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	**248 mm (9.76 in)**
Flange and Gasket Thickness	**16 mm (0.63 in)**
Air Volume Occupied by Driver	**10 dm³ (0.35 ft³)**
Net Weight	**12.55 kg (27.67 lb)**
Shipping Units	**1 pcs**
Shipping Weight	**14.15 kg (31.2 lb)**
Shipping Box	**500x495x275 mm (19.69x19.49x10.83 in)**

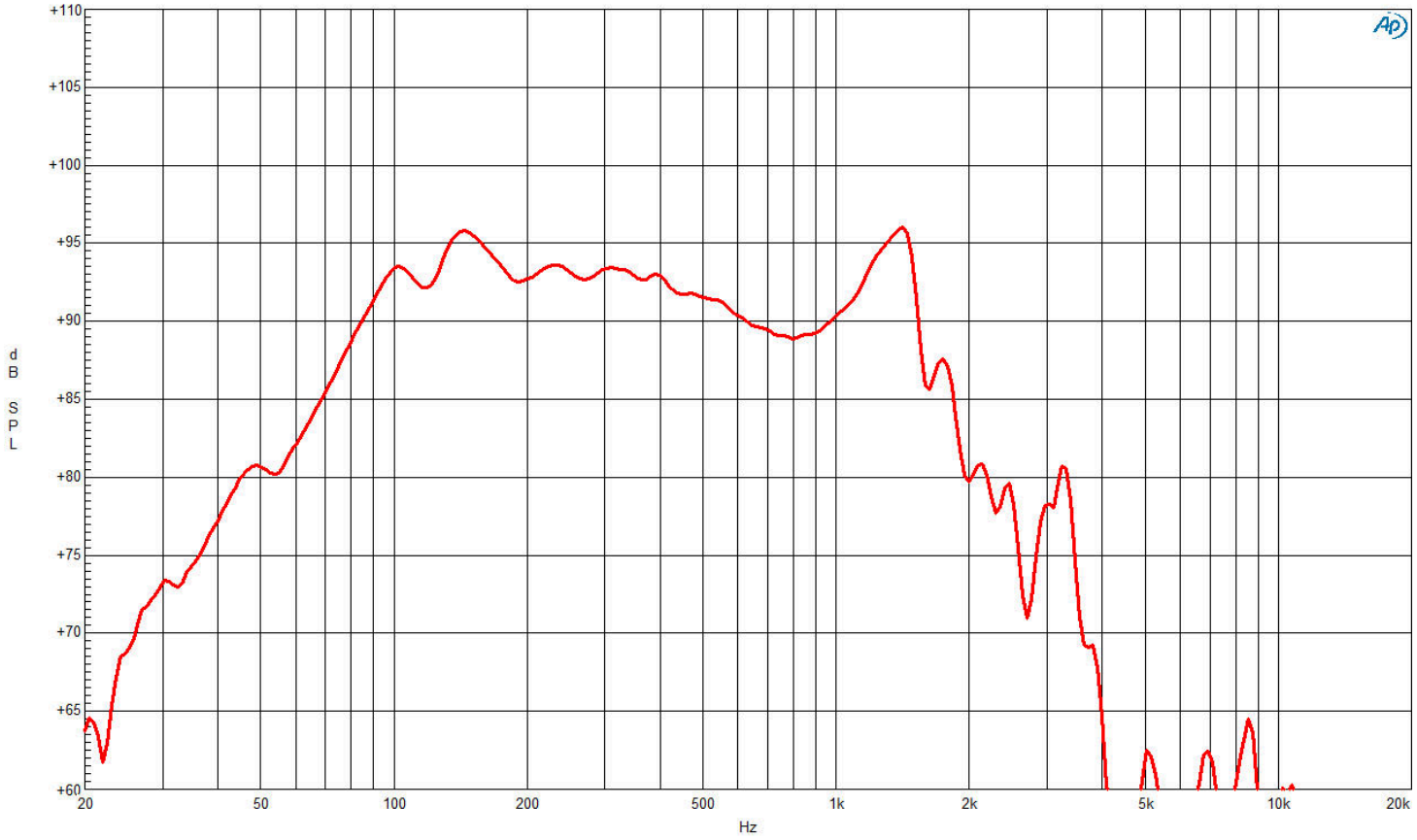
SERVICE KITS

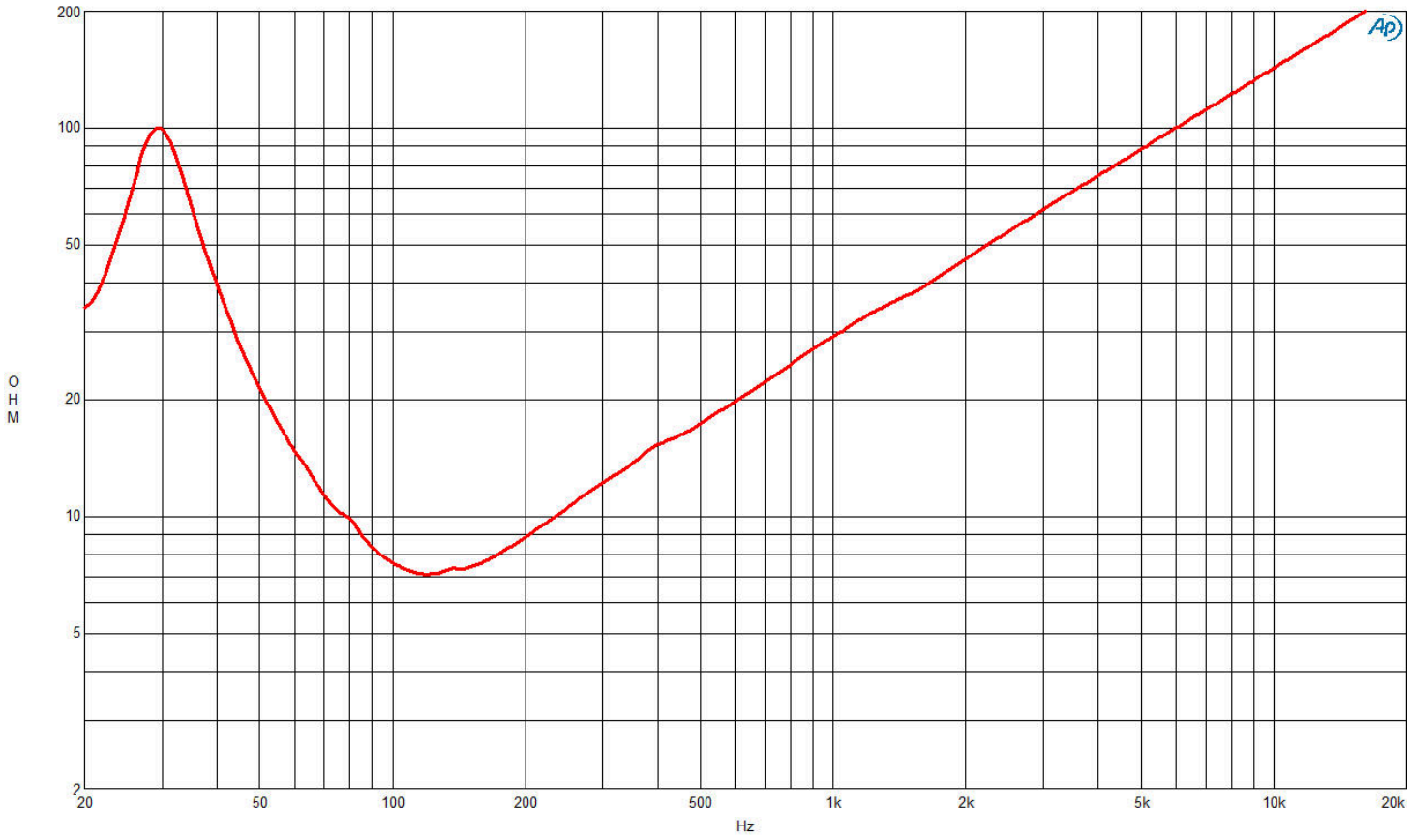
LF recone-kits	**RCK18DS1158**

B&C Speakers S.p.A. Via Poggiomoro, 1 - Loc. Vallina, 50012 Bagno a Ripoli (FI) | ITALY
Tel. +39 055 65721 | Fax +39 055 6572312 | mail@bcspeakers.com

18DS115 8 Ω

Subwoofer





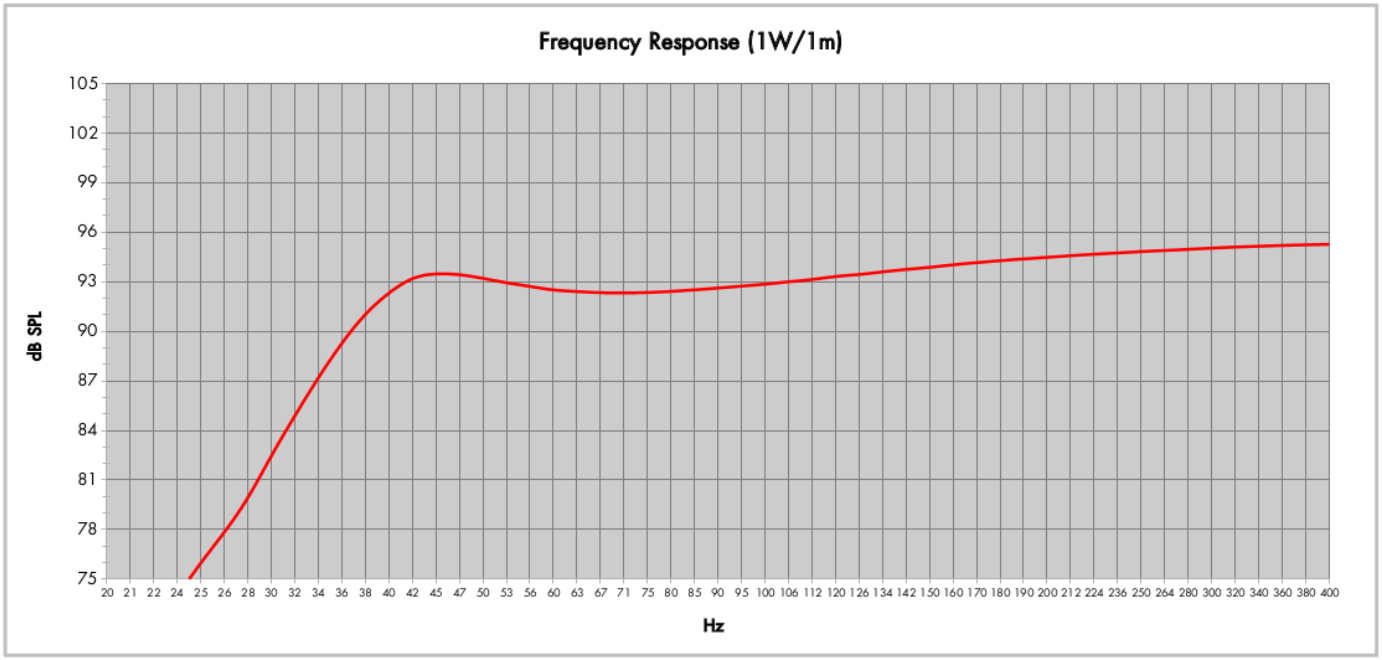
B&C SPEAKERS

Professional loudspeaker transducers since 1946

B&C Speakers S.p.A. Via Poggiomoro, 1 - Loc. Vallina, 50012 Bagno a Ripoli (FI) | ITALY
Tel. +39 055 65721 | Fax +39 055 6572312 | mail@bcspeakers.com

18DS115 8 Ω

Subwoofer



Model:	**18DS115**		
Enclosure Type:	**Bass Reflex**	Configuration:	**One Driver**
Internal Net Volume (Litres):	**100**	QB:	**7**
Tuning Frequency (Hz):	**40**	Port Area (cm^2):	**200,0**
Frequency (-3 dB) (Hz):	**40,8**	Port Length (cm):	**23,7**
Frequency (-10 dB) (Hz):	**32,6**		

B&C Speakers S.p.A. Via Poggiomoro, 1 - Loc. Vallina, 50012 Bagno a Ripoli (FI) | ITALY
Tel. +39 055 65721 | Fax +39 055 6572312 | mail@bcspeakers.com

18DS115 8 Ω

Subwoofer

