

18RBX100 4 Ω

Subwoofer

2000 W continuous program power capacity
100 mm (4 in) copper voice coil
35 - 1000 Hz response
97 dB sensitivity
Aluminium demodulating ring allows a very low distortion figure
Double silicone spider with optimized compliance

The new B&C 18RBX100 anchors our ferrite subwoofer line, and features an all new FEA optimized motor structure. The 25mm high, 4" (100mm) diameter copper wire voice coil is combined with a laminated double silicone spider, water resistant curvilinear cone and triple roll surround, for even more excursion and linearity. The corrosion resistant motor structure incorporates an aluminum demodulation ring that effectively controls inductive rise as well as harmonic and intermodulation distortion. This subwoofer can be used for a wide variety of applications, including compact vented enclosures as small as 120 litres.



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SPECIFICATIONS

Nominal Diameter	460 mm (18 in)
Nominal Impedance	4 Ω
Minimum Impedance	4.5 Ω
Nominal Power Handling	1000 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	2000 W
Power on Continuous Program is defined as 3 dB greater than the Nominal rating.	
Sensitivity	97 dB
Applied RMS Voltage is set to 2V for 4 ohms Nominal Impedance.	
Frequency Range	35 Hz - 1000 Hz
Voice Coil Diameter	100 mm (4 in)
Winding Material	Copper
Former Material	Glass Fibre
Winding Depth	25 mm (1 in)
Magnetic Gap Depth	11 mm (0.43 in)
Flux Density	1.1 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	42 Hz
Re	3.5 Ω
Qes	0.41
Qms	8
Qts	0.4
Vas	136 dm³ (4.8 ft³)
Sd	1225 cm² (189.88 in²)
η ₀	2.5 %
X _{max}	10 mm
X _{var}	13 mm
M _{ms}	210 g
Bl	22 Tm
Le	1.2 mH
EBP	102 Hz

DESIGN

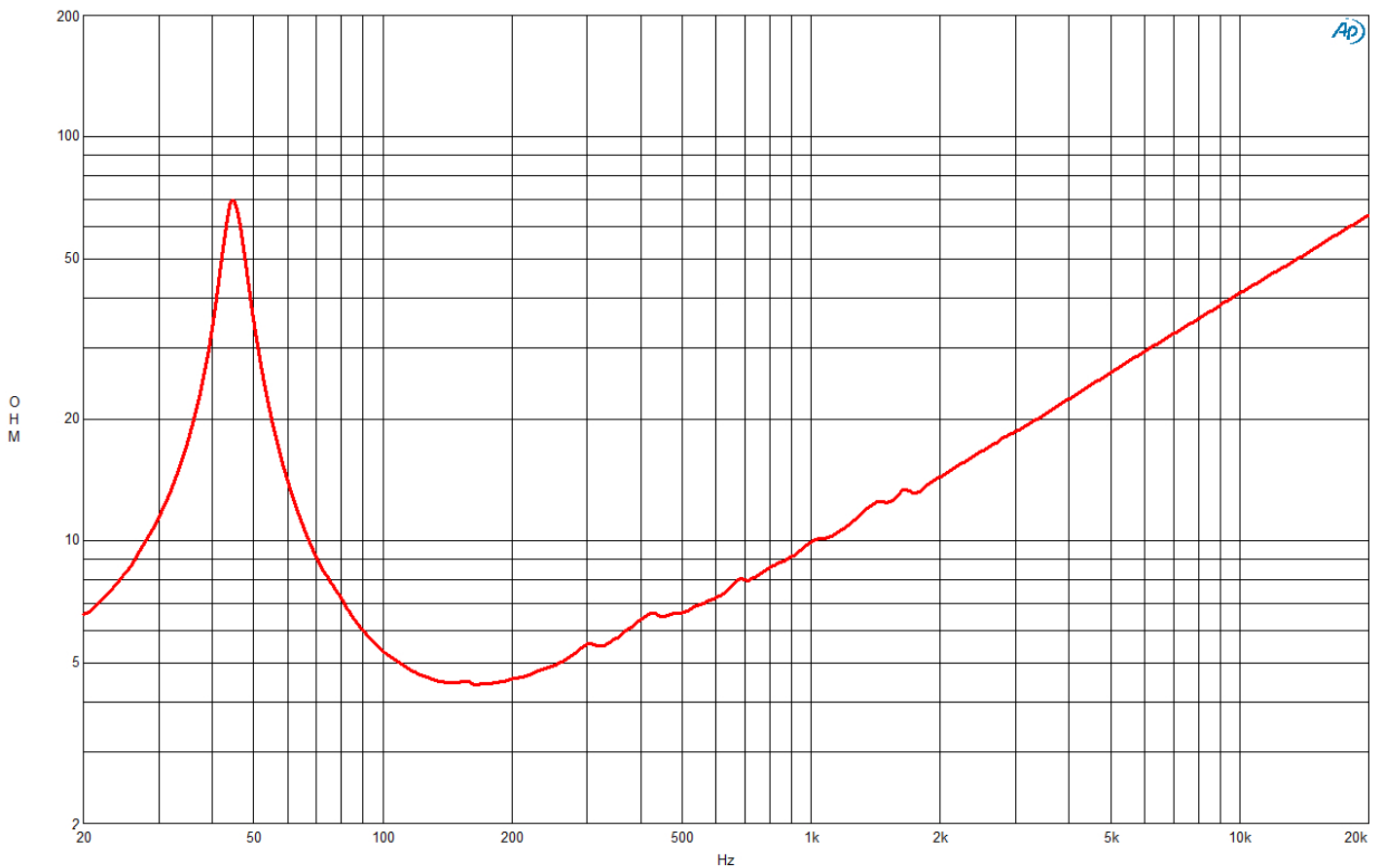
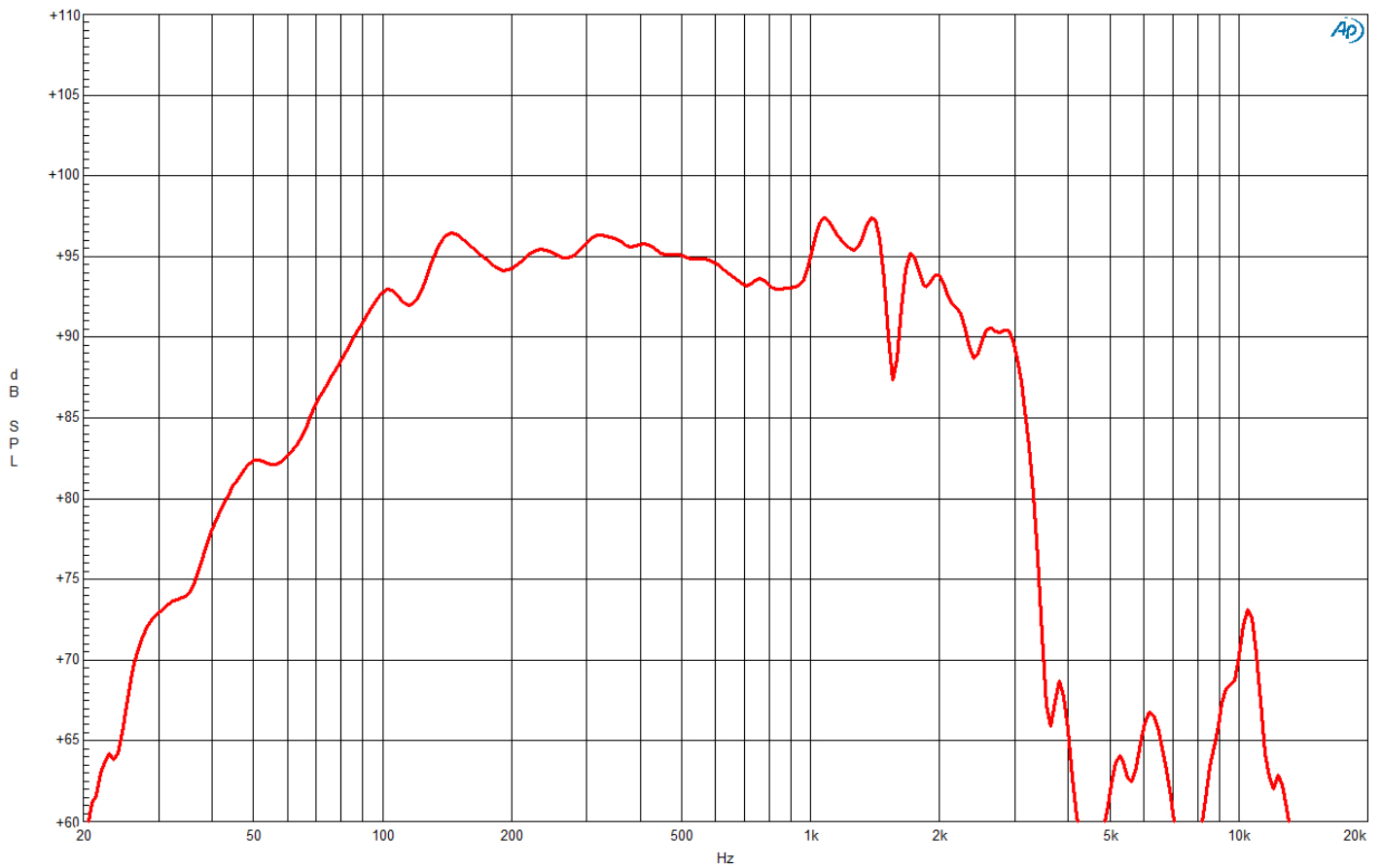
Surround Shape	Triple Roll
Cone Shape	Curvilinear
Magnet Material	Ferrite
Spider	Double Silicone
Pole Design	T-Pole
Woofer Cone Treatment	TWP Waterproof Both Sides
Recommended Enclosure	140 dm³ (4.94 ft³)
Recommended Tuning	40 Hz

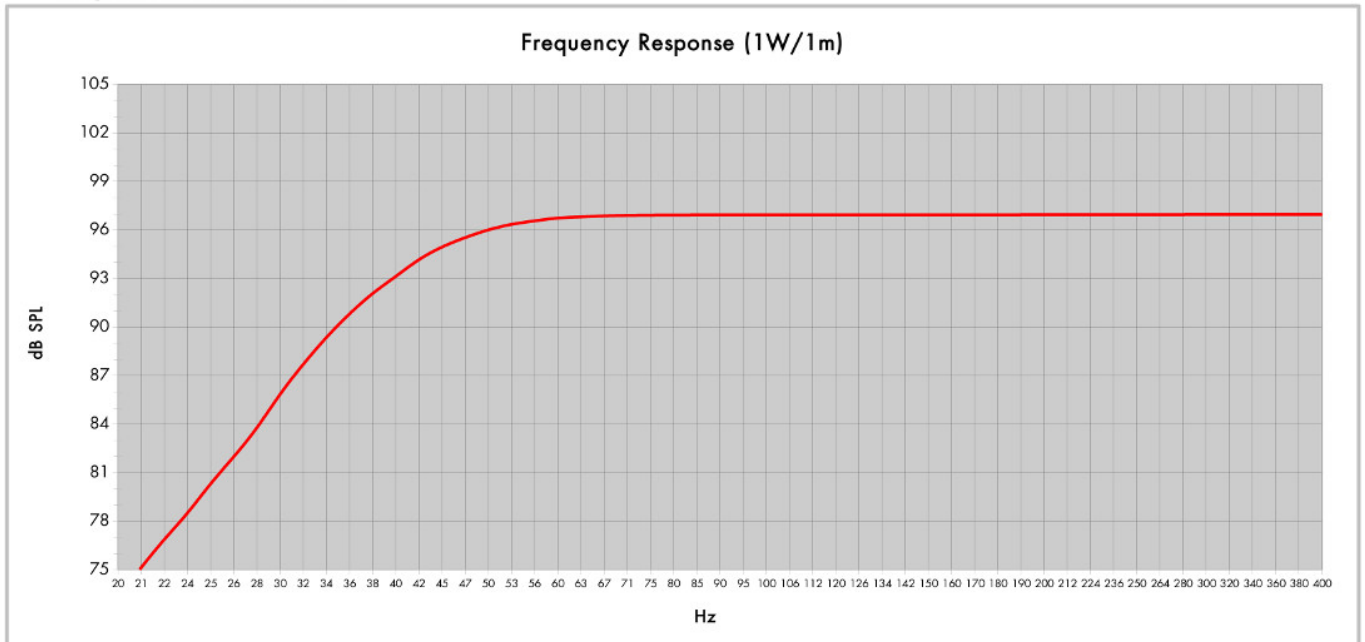
MOUNTING AND SHIPPING INFO

Overall Diameter	460 mm (18.11 in)
Bolt Circle Diameter	440 mm (17.32 in)
Baffle Cutout Diameter	422 mm (16.61 in)
Depth	200 mm (7.87 in)
Flange and Gasket Thickness	14 mm (0.55 in)
Air Volume Occupied by Driver	10.5 dm³ (0.37 ft³)
Net Weight	12.05 kg (26.57 lb)
Shipping Units	1 pcs
Shipping Weight	13.65 kg (30.09 lb)
Shipping Box	500x495x275 mm (19.69x19.49x10.83 in)

SERVICE KITS

LF recone-kits	RCK18RBX1004
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Model:	18RBX100	Configuration:	One Driver
Enclosure Type:	Bass Reflex		
Internal Net Volume (Litres):	140	QB:	7
Tuning Frequency (Hz):	40	Port Area (cm ²):	270,0
Frequency (-3 dB) (Hz):	41,9	Port Length (cm):	20,0
Frequency (-10 dB) (Hz):	31,2		

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