

**12NBX100** 4 Ω

Woofer

- 2000 W continuous program power capacity
- 100 mm (4 in) copper voice coil
- 40 - 1500 Hz response
- 94 dB sensitivity
- Excursion optimized lead wires (woven through spider)
- Aluminium demodulating ring allows a very low distortion figure
- Double silicone spider with optimized compliance
- Ventilated voice coil gap for reduced power compression



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**SPECIFICATIONS**

Nominal Diameter	<b>320 mm (12 in)</b>
Nominal Impedance	<b>4 Ω</b>
Minimum Impedance	<b>4.5 Ω</b>
Nominal Power Handling	<b>1000 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>2000 W</b>
Power on Continuous Program is defined as 3 dB greater than the Nominal rating.	
Sensitivity	<b>94 dB</b>
Applied RMS Voltage is set to 2V for 4 ohms Nominal Impedance.	
Frequency Range	<b>40 Hz - 1500 Hz</b>
Voice Coil Diameter	<b>100 mm (4 in)</b>
Winding Material	<b>Copper</b>
Former Material	<b>Glass Fibre</b>
Winding Depth	<b>25 mm (1 in)</b>
Magnetic Gap Depth	<b>11 mm (0.43 in)</b>
Flux Density	<b>1.1 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>40 Hz</b>
Re	<b>3.6 Ω</b>
Qes	<b>0.23</b>
Qms	<b>7.05</b>
Qts	<b>0.22</b>
Vas	<b>46.5 dm<sup>3</sup> (1.64 ft<sup>3</sup>)</b>
Sd	<b>531 cm<sup>2</sup> (82 in<sup>2</sup>)</b>
η <sub>0</sub>	<b>1.27 %</b>
X <sub>max</sub>	<b>10 mm</b>
X <sub>var</sub>	<b>10 mm</b>
M <sub>ms</sub>	<b>133 g</b>
Bl	<b>23.04 Tm</b>
Le	<b>1.35 mH</b>
EBP	<b>174 Hz</b>

**DESIGN**

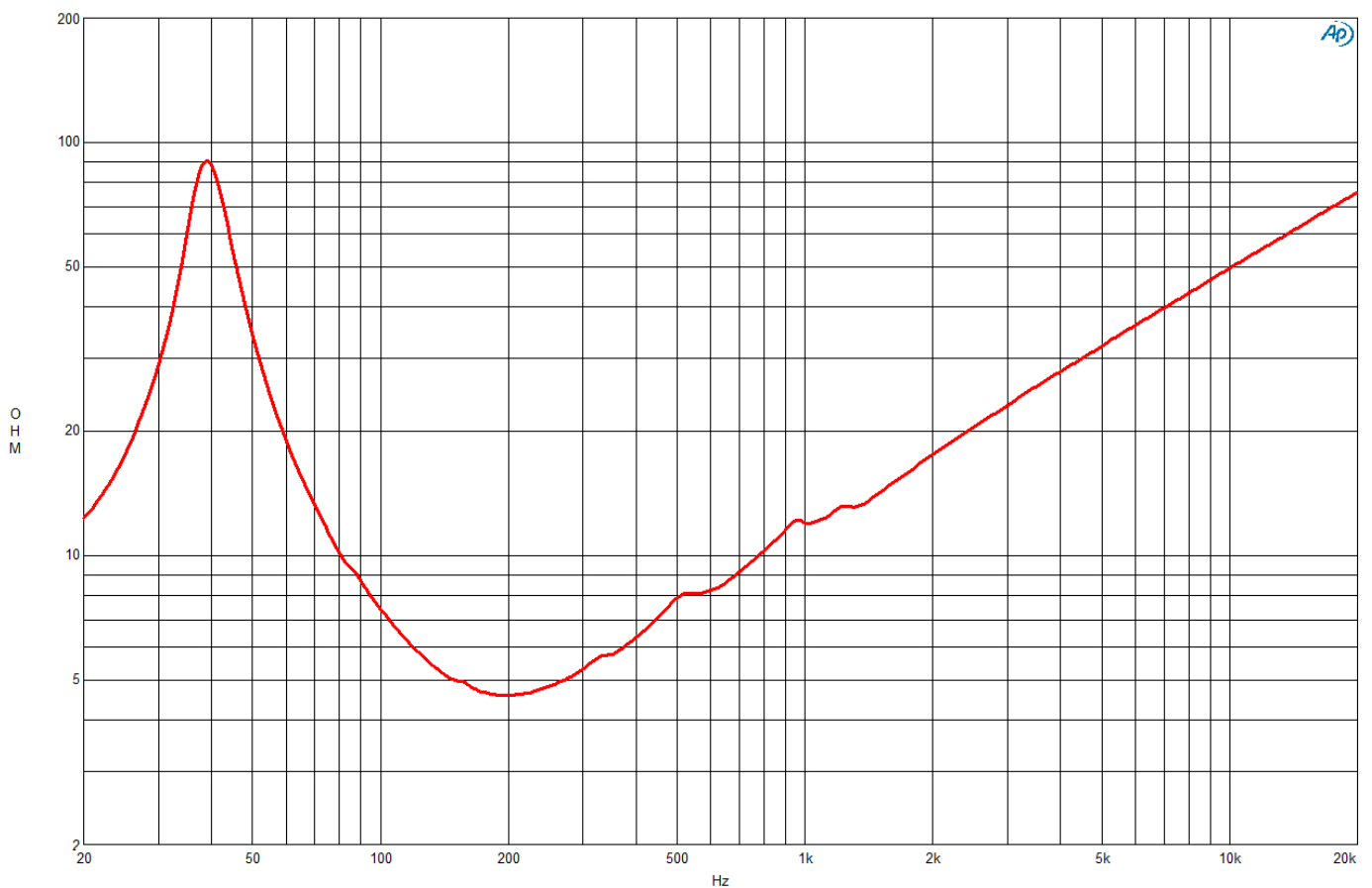
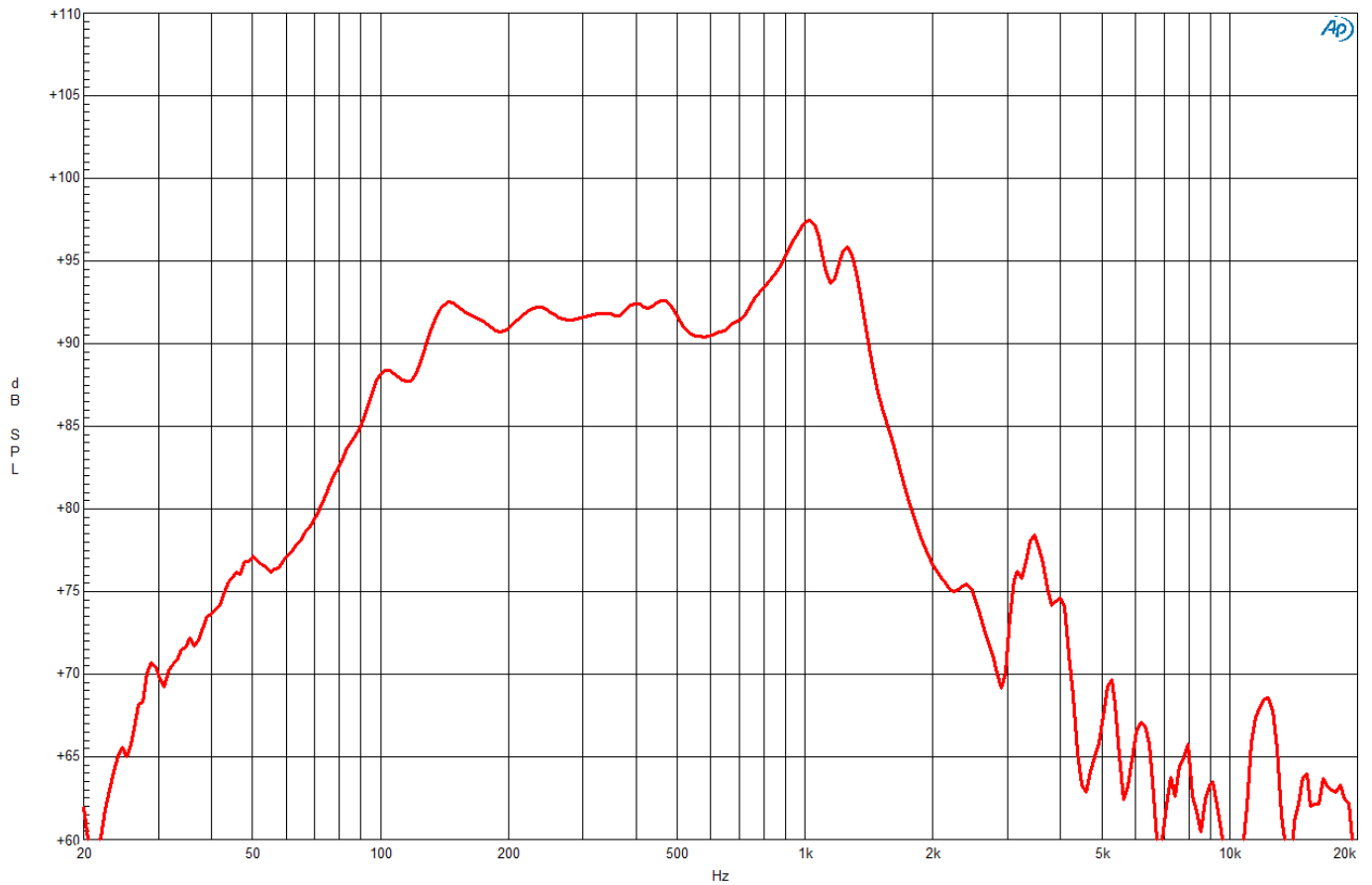
Surround Shape	<b>Triple Roll</b>
Cone Shape	<b>Exponential</b>
Magnet Material	<b>Neodymium Inside Slug</b>
Spider	<b>Double Silicone</b>
Pole Design	<b>T-Pole</b>
Woofer Cone Treatment	<b>TWP Waterproof Both Sides</b>
Recommended Enclosure	<b>40 dm<sup>3</sup> (1.41 ft<sup>3</sup>)</b>
Recommended Tuning	<b>50 Hz</b>

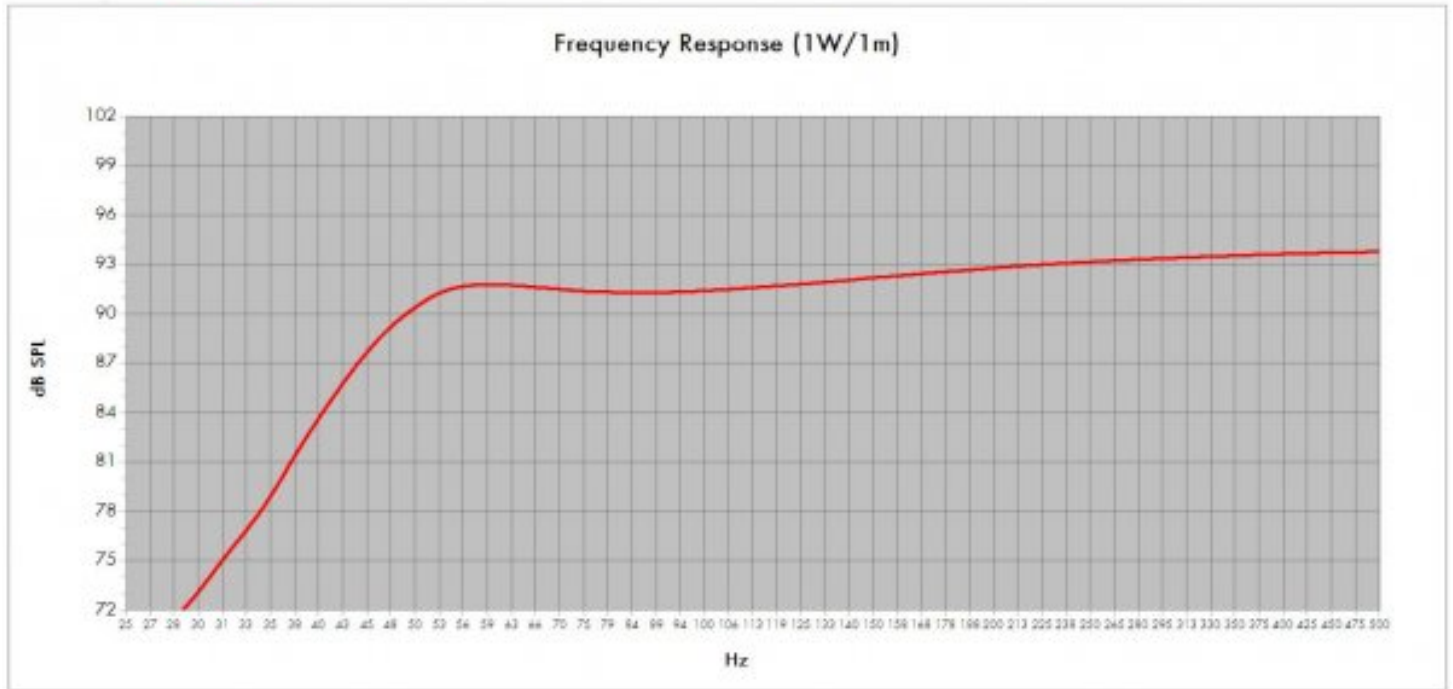
**MOUNTING AND SHIPPING INFO**

Overall Diameter	<b>320 mm (12.6 in)</b>
Bolt Circle Diameter	<b>300 mm (11.8 in)</b>
Baffle Cutout Diameter	<b>280 mm (11 in)</b>
Depth	<b>143 mm (5.63 in)</b>
Flange and Gasket Thickness	<b>12 mm (0.47 in)</b>
Air Volume Occupied by Driver	<b>4 dm<sup>3</sup> (0.14 ft<sup>3</sup>)</b>
Net Weight	<b>8.25 kg (18.19 lb)</b>
Shipping Units	<b>1 pcs</b>
Shipping Weight	<b>9.15 kg (20.17 lb)</b>
Shipping Box	<b>360x360x200 mm (14.17x14.17x7.87 in)</b>

**SERVICE KITS**

LF recone-kits	<b>RCK12NBX1004</b>
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Model:	<b>12NBX100</b>	Configuration:	<b>One Driver</b>
Enclosure Type:	<b>Bass Reflex</b>		
Internal Net Volume [Litres]:	<b>40</b>	Q <sub>B</sub> :	<b>5</b>
Tuning Frequency (Hz):	<b>50</b>	Port Area [cm <sup>2</sup> ]:	<b>138,7</b>
Frequency (-3 dB) (Hz):	<b>52,2</b>	Port Length [cm]:	<b>30,2</b>
Excursion Limited Maximum SPL at 1 meter [dB]: <b>120,4</b> equal to <b>543,8</b> Watts [Bass Band Power Rating]			
Thermal Limited Maximum SPL at 1 meter [dB]: <b>124,0</b> equal to <b>1000,0</b> Watts [Mid Band Power Rating]			

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