

**18PS100** 8 Ω

Subwoofer

- 1400 W continuous program power capacity
- 100 mm (4 in) copper voice coil
- 30 - 1000 Hz response
- 95.5 dB sensitivity
- Double silicone spider with optimized compliance



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## Subwoofer

**SPECIFICATIONS**

Nominal Diameter	<b>460 mm (18 in)</b>
Nominal Impedance	<b>8 Ω</b>
Minimum Impedance	<b>6.3 Ω</b>
Nominal Power Handling	<b>700 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>1400 W</b>
Power on Continuous Program is defined as 3 dB greater than the Nominal rating.	
Sensitivity	<b>95.5 dB</b>
Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.	
Frequency Range	<b>30 Hz - 1000 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>21 mm (0.83 in)</b>
Magnetic Gap Depth	<b>10.5 mm (0.41 in)</b>
Flux Density	<b>1.05 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>30 Hz</b>
Re	<b>5.3 Ω</b>
Qes	<b>0.41</b>
Qms	<b>4.6</b>
Qts	<b>0.39</b>
Vas	<b>245 dm<sup>3</sup> (8.6 ft<sup>3</sup>)</b>
Sd	<b>1210 cm<sup>2</sup> (187.6 in<sup>2</sup>)</b>
η <sub>0</sub>	<b>1.6 %</b>
X <sub>max</sub>	<b>8 mm</b>
X <sub>var</sub>	<b>8 mm</b>
M <sub>ms</sub>	<b>202 g</b>
Bl	<b>22.5 Tm</b>
Le	<b>2.1 mH</b>
EBP	<b>73 Hz</b>

**DESIGN**

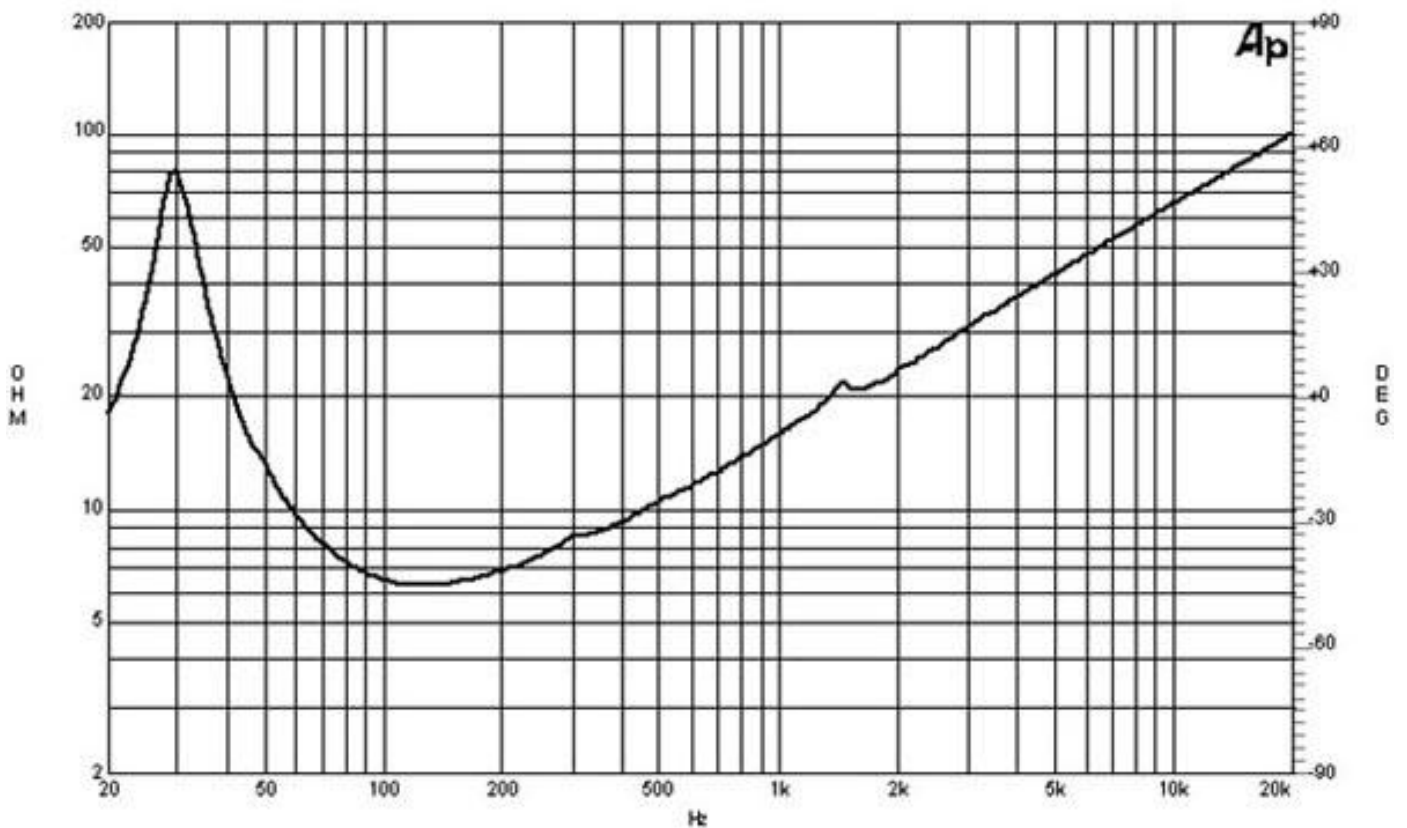
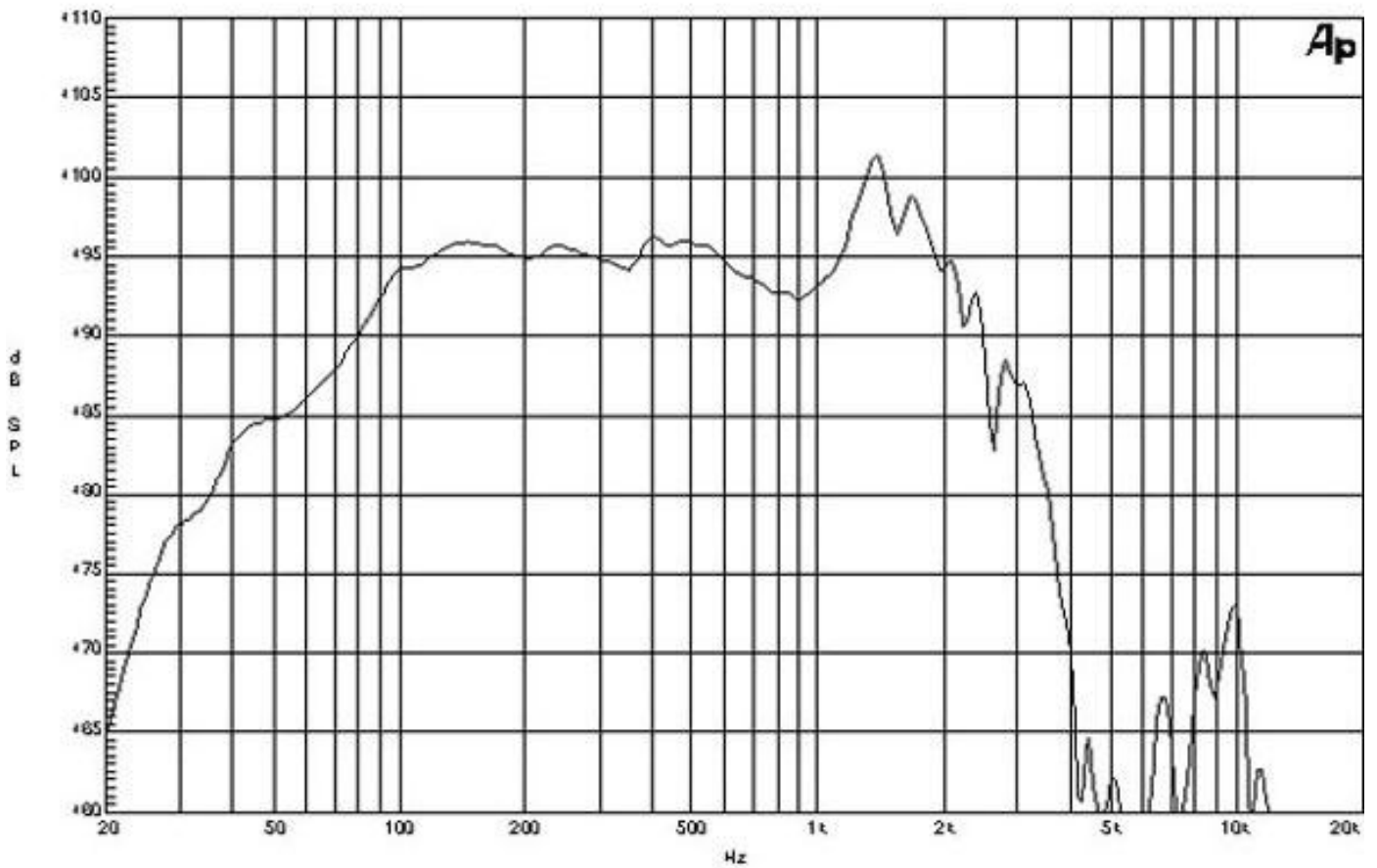
Surround Shape	<b>Triple Roll</b>
Cone Shape	<b>Radial</b>
Magnet Material	<b>Ferrite</b>
Spider	<b>Double Silicone</b>
Pole Design	<b>T-Pole</b>
Woofer Cone Treatment	<b>TWP Waterproof Both Sides</b>
Recommended Enclosure	<b>250 dm<sup>3</sup> (8.83 ft<sup>3</sup>)</b>
Recommended Tuning	<b>29 Hz</b>

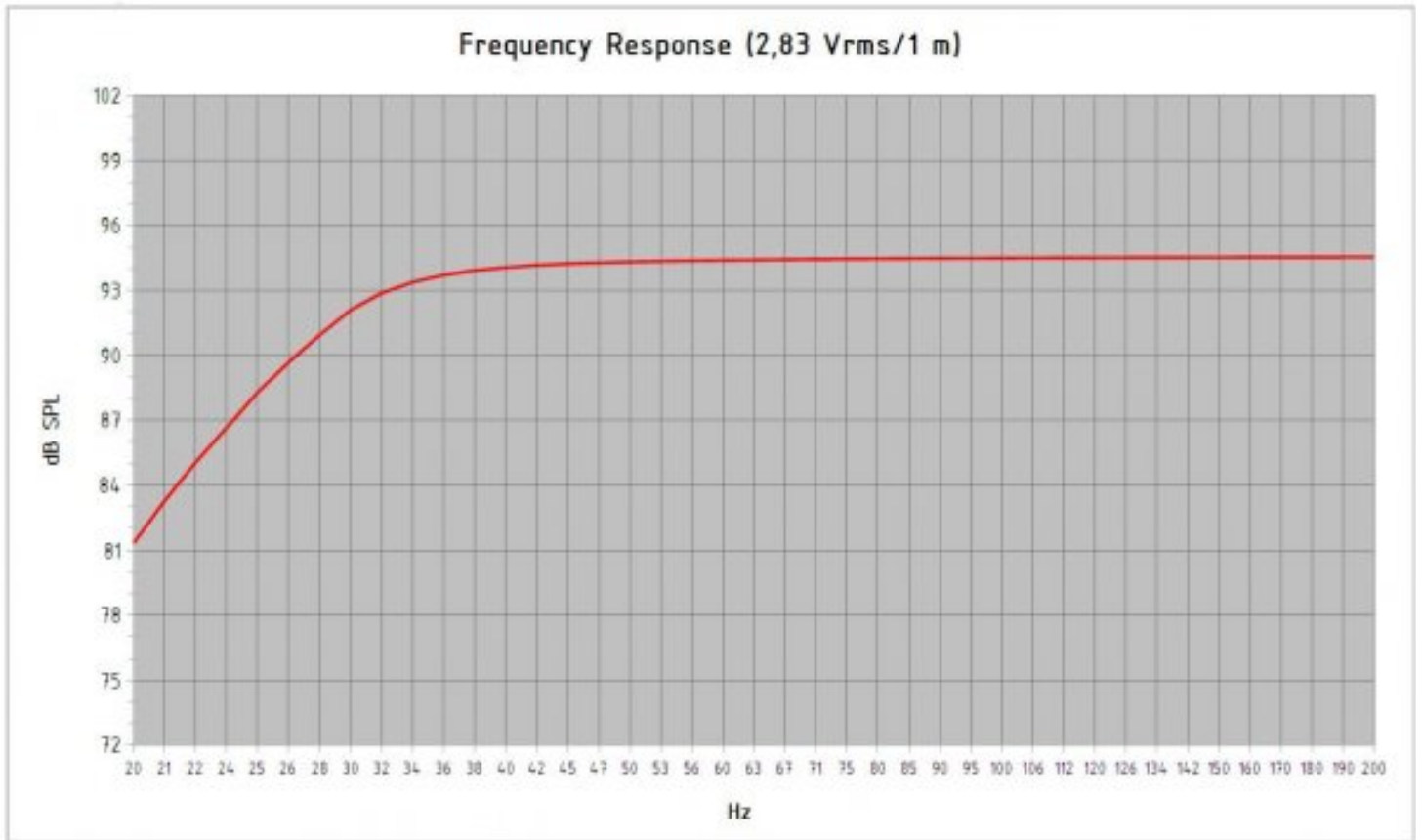
**MOUNTING AND SHIPPING INFO**

Overall Diameter	<b>460 mm (18 in)</b>
Bolt Circle Diameter	<b>440 mm (17.3 in)</b>
Baffle Cutout Diameter	<b>422 mm (16.6 in)</b>
Depth	<b>197 mm (7.75 in)</b>
Flange and Gasket Thickness	<b>16 mm (0.62 in)</b>
Air Volume Occupied by Driver	<b>9.5 dm<sup>3</sup> (0.33 ft<sup>3</sup>)</b>
Net Weight	<b>10.2 kg (22.49 lb)</b>
Shipping Units	<b>1 pcs</b>
Shipping Weight	<b>11.8 kg (26.01 lb)</b>
Shipping Box	<b>500x495x275 mm (19.69x19.49x10.83 in)</b>

**SERVICE KITS**

LF recone-kits	<b>RCK18PS1008</b>
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Model:	<b>18 PS 100</b>		
Enclosure Type:	<b>Bass Reflex</b>		
Internal Net Volume (Liters):	<b>250</b>	Port Area (cm <sup>2</sup> ):	<b>339,6</b>
Tuning Frequency (Hz):	<b>29</b>	Port Length (cm):	<b>30,4</b>
Frequency (-3 dB) (Hz):	<b>29,1</b>		
Excursion Limited Maximum SPL at 1 meter (dB):	<b>115,5</b>	equal to	<b>156,9</b> Watts (Bass Band Power Rating)
Thermal Limited Maximum SPL at 1 meter (dB):	<b>122,0</b>	equal to	<b>700,0</b> Watts (Mid Band Power Rating)

