

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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SPECIFICATIONS

Nominal Diameter	460 mm (18 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.3 Ω
Nominal Power Handling	700 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	1400 W
Power on Continuous Program is defined as 3 dB greater than the Nominal rating.	
Sensitivity	95.5 dB
Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.	
Frequency Range	30 Hz - 1000 Hz
Voice Coil Diameter	100 mm (4 in)
Winding Material	Copper
Former Material	Glass Fibre
Winding Depth	21 mm (0.83 in)
Magnetic Gap Depth	10.5 mm (0.41 in)
Flux Density	1.05 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	5.3 Ω
Qes	0.41
Qms	4.6
Qts	0.39
Vas	245 dm³ (8.6 ft³)
Sd	1210 cm² (187.6 in²)
η ₀	1.6 %
X _{max}	8 mm
X _{var}	8 mm
M _{ms}	202 g
Bl	22.5 Tm
Le	2.1 mH
EBP	73 Hz

DESIGN

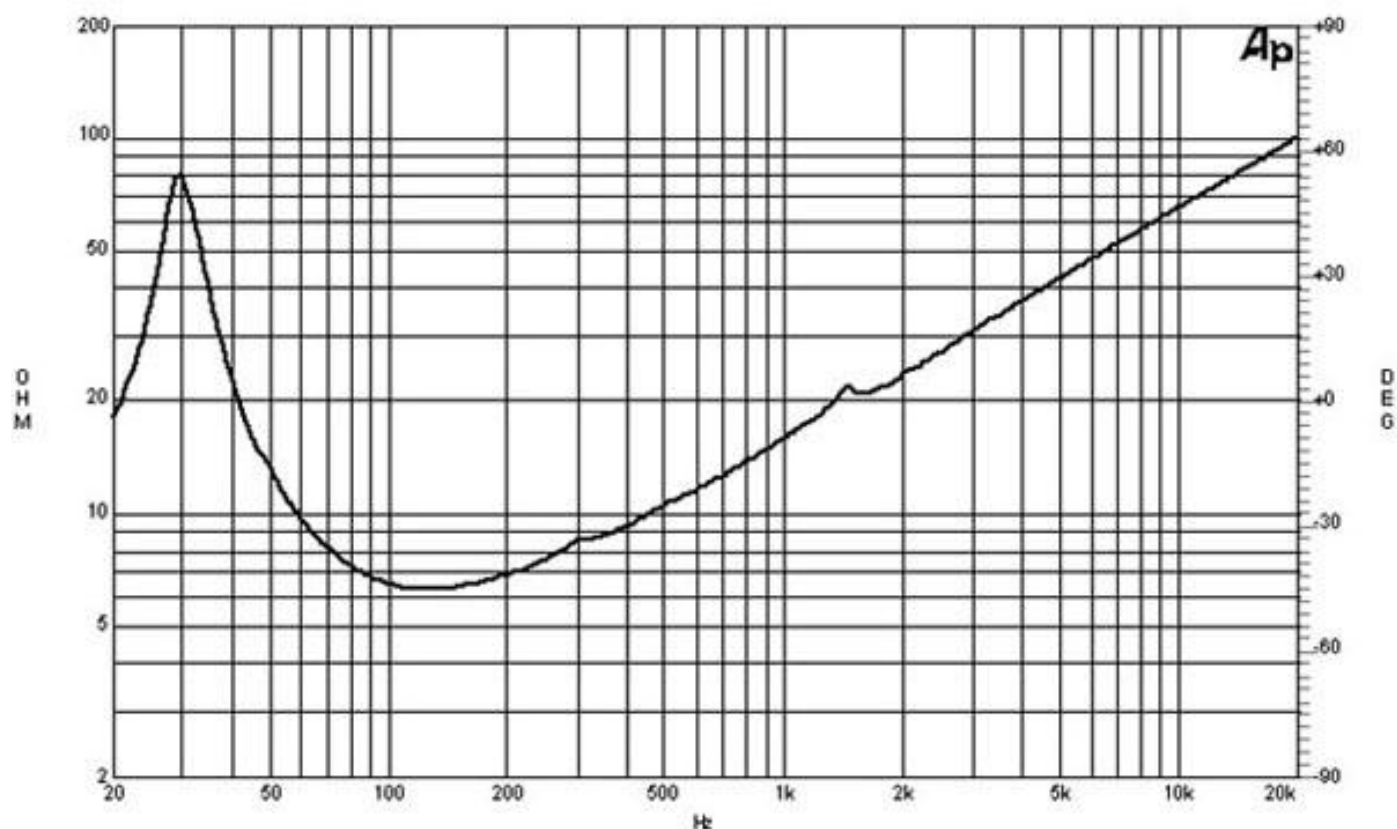
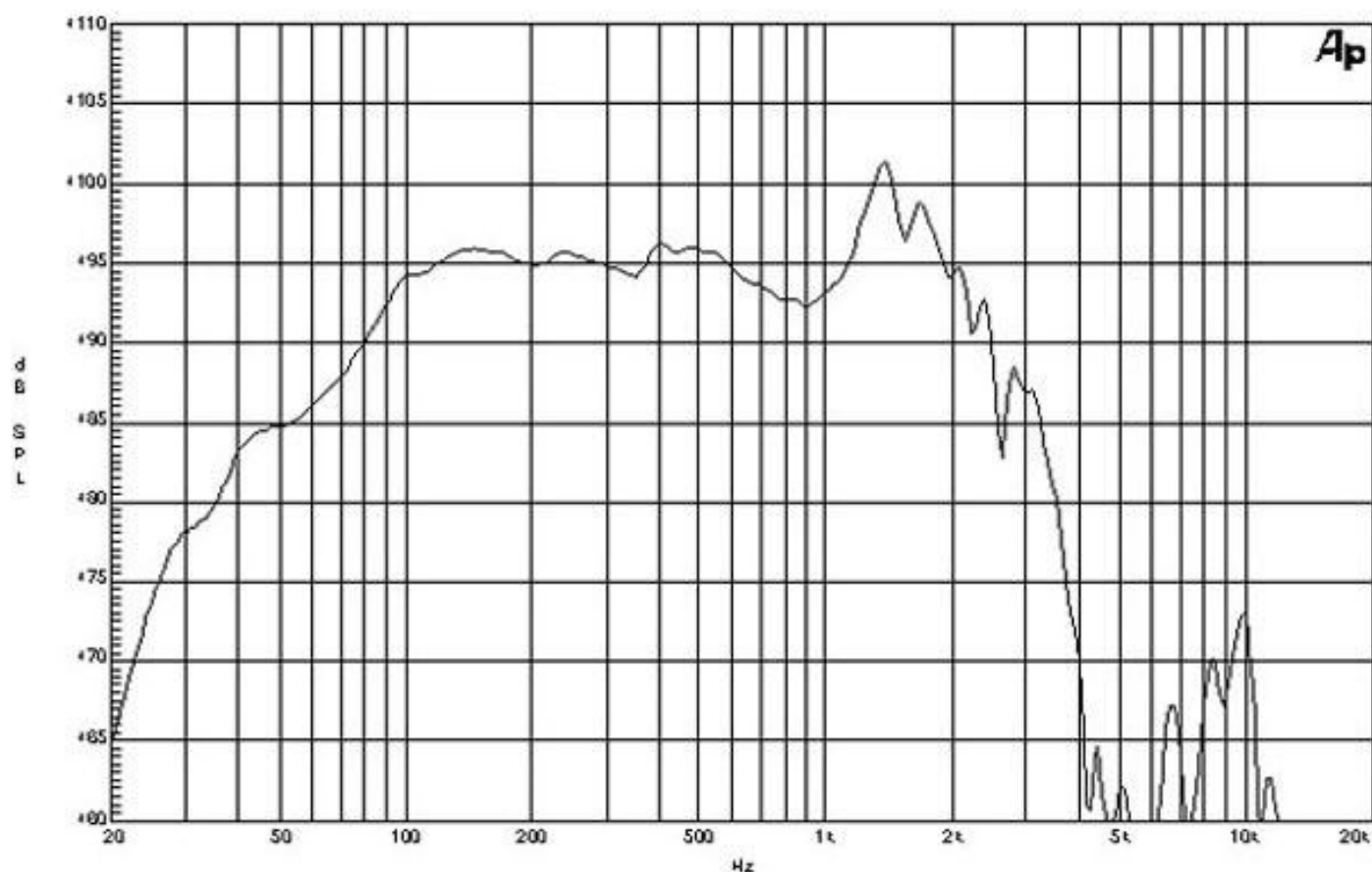
Surround Shape	Triple Roll
Cone Shape	Radial
Magnet Material	Ferrite
Spider	Double Silicone
Pole Design	T-Pole
Woofer Cone Treatment	TWP Waterproof Both Sides
Recommended Enclosure	250 dm³ (8.83 ft³)
Recommended Tuning	29 Hz

MOUNTING AND SHIPPING INFO

Overall Diameter	460 mm (18 in)
Bolt Circle Diameter	440 mm (17.3 in)
Baffle Cutout Diameter	422 mm (16.6 in)
Depth	197 mm (7.75 in)
Flange and Gasket Thickness	16 mm (0.62 in)
Air Volume Occupied by Driver	9.5 dm³ (0.33 ft³)
Net Weight	10.2 kg (22.49 lb)
Shipping Units	1 pcs
Shipping Weight	11.8 kg (26.01 lb)
Shipping Box	500x495x275 mm (19.69x19.49x10.83 in)

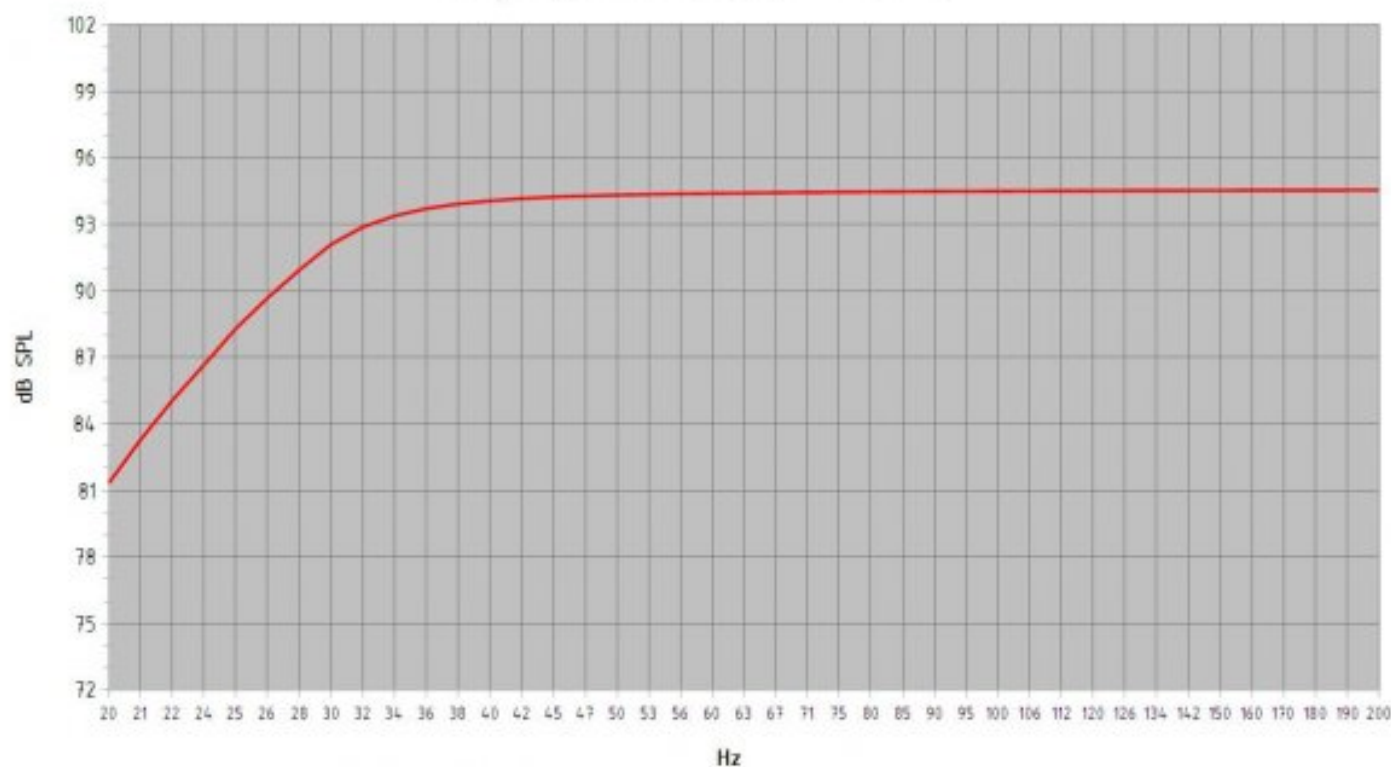
SERVICE KITS

LF recone-kits	RCK18PS1008
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Frequency Response (2,83 Vrms/1 m)



Model: **18 PS 100**
Enclosure Type: **Bass Reflex**

Internal Net Volume (Liters): **250**
Tuning Frequency (Hz): **29**
Frequency (-3 dB) (Hz): **29,1**

Port Area (cm²): **339,6**
Port Length (cm): **30,4**

Excursion Limited Maximum SPL at 1 meter (dB): **115,5** equal to **156,9** Watts (Bass Band Power Rating)
Thermal Limited Maximum SPL at 1 meter (dB): **122,0** equal to **700,0** Watts (Mid Band Power Rating)

