

18PS100

LF Drivers - 18.0 Inches

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



Specifications

Nominal diameter	460 mm (18.0 in)
Nominal impedance	8 Ω
Minimum impedance	6.3 Ω
Nominal power handling ¹	700 W
Continuous power handling ²	1400 W
Sensitivity (1W/1m) ³	96.0 dB
Frequency range	30 - 1000 Hz
Voice coil diameter	100 mm (4.0 in)
Winding material	Copper
Former material	Glass Fibre
Winding depth	21 mm (0.83 in)
Magnetic gap depth	11 mm (0.4 in)
Flux density	1.05 T

Design

Surround shape	Triple Roll
Cone shape	Radial
Magnet material	Ferrite

Design

Spider	Double Silicone
Pole design	T-Pole
Woofer cone treatment	WP Waterproof Front Side
Recommended enclosure	250.0 dm ³ (8.83 ft ³)
Recommended tuning	29 Hz

Parameters⁴

Fs	30 Hz
Re	5.3 Ω
Qes	0.41
Qms	4.6
Qts	0.39
Vas	245.0 dm ³ (8.6 ft ³)
Sd	1210.0 cm ² (187.6 in ²)
η _o	1.6 %
X _{max}	8.0 mm
X _{var}	8.0 mm
M _{ms}	202 g
Bl	22.5 Txm

Parameters

Le	2.1 mH
EBP	73 Hz

Mounting And Shipping Info

Overall diameter	460 mm (18.0 in)
Bolt circle diameter	440 mm (17.3 in)
Baffle cutout diameter	422.0 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 dm ³ (0.33 ft ³)
Net weight	10.5 kg (23.1 lb)
Shipping units	1
Shipping weight	11.9 kg (26.2 lb)
Shipping box	500x500x250 mm (19.7x19.7x9.8 in)

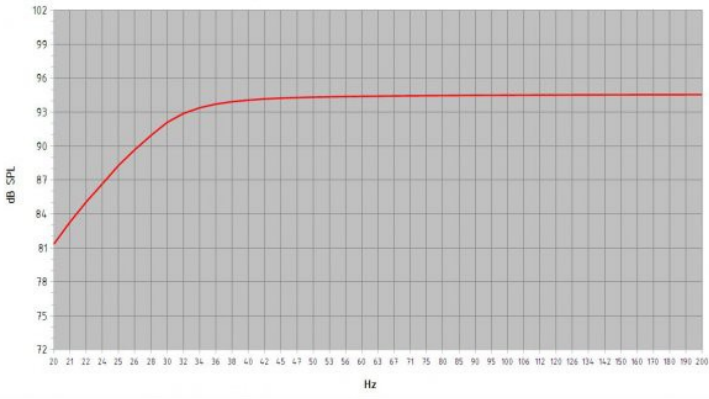
Service Kit

RCK18PS1008

1. 2 hours test made with continuous pink noise signal (6 dB crest factor) within the range Fs-10Fs. Power calculated on rated minimum impedance. Loudspeaker in free air.
2. Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

3. Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.
4. Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

Frequency Response (2,83 Vrms/1 m)



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

Internal Net Volume (Liters): **250**
 Tuning Frequency (Hz): **29** Port Area (cm²): **339.6**
 Frequency (-3 dB) (Hz): **29.1** 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)