

18SW115

LF Drivers - 18.0 Inches

3400 W continuous program power capacity

116 mm (4.5 in) split winding copper voice coil

35 - 1500 Hz response

97 dB sensitivity

60 mm peak-to-peak excursion before damage

Neodymium magnet allows a very high force factor
and linear excursion

Double silicone spider with optimized compliance

Ventilated voice coil gap for reduced power
compression

Aluminium demodulating ring for very low distortion



Specifications

Nominal diameter	460 mm (18.0 in)
Nominal impedance	8 Ω
Minimum impedance	6.5 Ω
Nominal power handling ¹	1700 W
Continuous power handling ²	3400 W
Sensitivity (1W/1m) ³	97.0 dB
Frequency range	35 - 1500 Hz
Voice coil diameter	116 mm (4.5 in)
Winding material	Copper
Former material	Glass Fibre
Winding depth	34 mm (1.33 in)
Magnetic gap depth	14 mm (0.55 in)
Flux density	1.16 T

Design

Surround shape	Triple Roll
Cone shape	Radial
Magnet material	Neodymium Inside Slug

Design

Spider	Double Silicone
Pole design	T-Pole
Woofer cone treatment	TWP Waterproof Both Sides
Recommended enclosure	150.0 dm ³ (5.3 ft ³)
Recommended tuning	35 Hz

Parameters⁴

Fs	32 Hz
Re	5.3 Ω
Qes	0.32
Qms	5.6
Qts	0.3
Vas	187.0 dm ³ (6.5 ft ³)
Sd	1210.0 cm ² (187.6 in ²)
η_0	1.9 %
Xmax	14.0 mm
Xvar	16.0 mm
Mms	275 g
Bl	30.3 Txm

Parameters

Le	1.9 mH
EBP	100 Hz

Mounting And Shipping Info

Overall diameter	460 mm (18.0 in)
Bolt circle diameter	443 mm (17.44 in)
Baffle cutout diameter	422.0 mm (16.6 in)
Depth	242 mm (9.5 in)
Flange and gasket thickness	16 mm (0.62 in)
Air volume occupied by driver	10.5 dm ³ (0.37 ft ³)
Net weight	11.9 kg (26.2 lb)
Shipping units	1
Shipping weight	13.9 kg (30.6 lb)
Shipping box	500x500x250 mm (19.7x19.7x9.8 in)

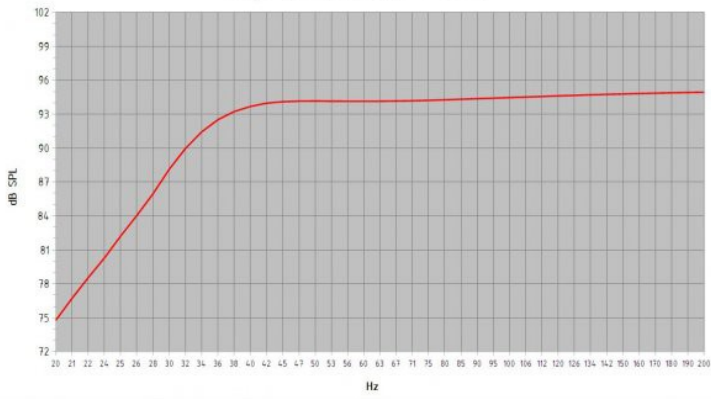
Service Kit

RCK18SW1158

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 SW 115**
 Enclosure Type: **Bass Reflex**

Internal Net Volume (Liters): **150**
 Tuning Frequency (Hz): **35** Port Area (cm²): **339.6**
 Frequency (-3 dB) (Hz): **35.4** Port Length (cm): **37.9**

Excursion Limited Maximum SPL at 1 meter (dB): **124.9** equal to **1161.0** Watts (Bass Band Power Rating)
 Thermal Limited Maximum SPL at 1 meter (dB): **126.6** equal to **1700.0** Watts (Mid Band Power Rating)