

# 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 <sup>1</sup>	1700 W
Continuous power handling <sup>2</sup>	3400 W
Sensitivity (1W/1m) <sup>3</sup>	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

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

### Parameters<sup>4</sup>

Fs	32 Hz
Re	5.3 Ω
Qes	0.32
Qms	5.6
Qts	0.3
Vas	187.0 dm <sup>3</sup> (6.5 ft <sup>3</sup> )
Sd	1210.0 cm <sup>2</sup> (187.6 in <sup>2</sup> )
η <sub>o</sub>	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 <sup>3</sup> (0.37 ft <sup>3</sup> )
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)

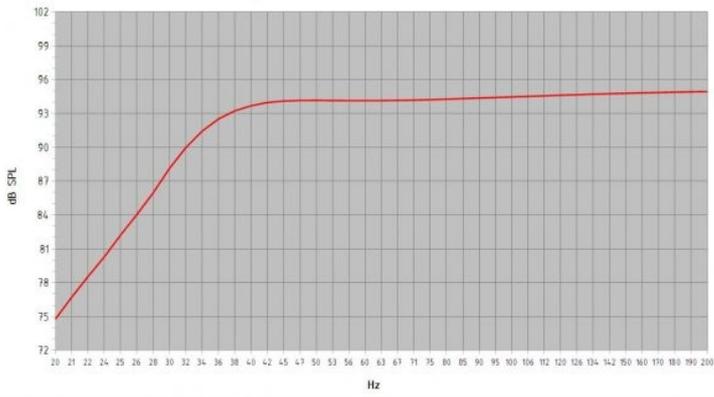
### Service Kit

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 (cm<sup>2</sup>): **339.6**  
 Frequency (-3 dB) (Hz): **35.4** Port Length (cm): **37.5**

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)