

# 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 $\Omega$
Minimum impedance	6.5 $\Omega$
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

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 <sup>3</sup> (5.3 ft <sup>3</sup> )
Recommended tuning	35 Hz

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

Fs	32 Hz
Re	5.3 $\Omega$
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> )
$\eta_0$	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

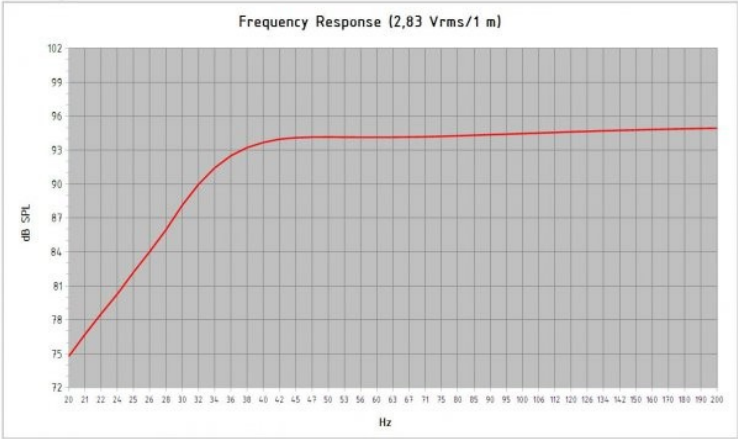
Overall diameter	460 mm (18.0 in)
Bolt circle diameter	443 mm (17.44 in)
Baffle cutout diameter	422.0 mm (16.6 in)
Depth	242 mm (9.5 in)
Flange and gasket thickness	16 mm (0.62 in)
Air volume occupied by driver	10.5 dm <sup>3</sup> (0.37 ft <sup>3</sup> )
Net weight	11.9 kg (26.2 lb)
Shipping units	1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

### Service Kit

RCK18SW1158
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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.



Model:	18 SIW 115		
Enclosure Type:	Bass Reflex		
Internal Net Volume (Liters):	150	Port Area (cm²):	339.6
Tuning Frequency (Hz):	35	Port Length (cm):	37.5
Frequency (-3 dB) (Hz):	35.4		
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)