

# 18TBW100

## LF Drivers - 18.0 Inches

3000 W continuous program power capacity  
 100 mm (4 in) split winding copper voice coil  
 35 - 1000 Hz response  
 96 dB sensitivity  
 57 mm peak-to-peak excursion before damage  
 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>	1500 W
Continuous power handling <sup>2</sup>	3000 W
Sensitivity (1W/1m) <sup>3</sup>	96.0 dB
Frequency range	35 - 1000 Hz
Voice coil diameter	100 mm (4.0 in)
Winding material	Copper
Former material	Glass Fibre
Winding depth	31 mm (1.22 in)
Magnetic gap depth	15 mm (0.59 in)
Flux density	1.15 T

### Design

Surround shape	Triple Roll
Cone shape	Radial
Magnet material	Ferrite

### Design

Spider	Double Silicone
Pole design	T-Pole
Woofers cone treatment	TWP Waterproof Both Sides
Recommended enclosure	200.0 dm <sup>3</sup> (7.06 ft <sup>3</sup> )
Recommended tuning	32 Hz

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

Fs	35 Hz
Re	5.3 Ω
Qes	0.41
Qms	8.0
Qts	0.39
Vas	175.0 dm <sup>3</sup> (6.18 ft <sup>3</sup> )
Sd	1210.0 cm <sup>2</sup> (187.6 in <sup>2</sup> )
η <sub>o</sub>	1.76 %
X <sub>max</sub>	12.0 mm
X <sub>var</sub>	14.0 mm
M <sub>ms</sub>	245 g
Bl	26.4 Txm

### Parameters

Le	2.45 mH
EBP	85 Hz

### Mounting And Shipping Info

Overall diameter	460 mm (18.0 in)
Bolt circle diameter	442 mm (17.4 in)
Baffle cutout diameter	422.0 mm (16.6 in)
Depth	241 mm (9.5 in)
Flange and gasket thickness	16 mm (0.61 in)
Air volume occupied by driver	11.0 dm <sup>3</sup> (0.39 ft <sup>3</sup> )
Net weight	15.1 kg (33.3 lb)
Shipping units	1
Shipping weight	16.6 kg (36.6 lb)
Shipping box	500x500x250 mm (19.7x19.7x9.8 in)

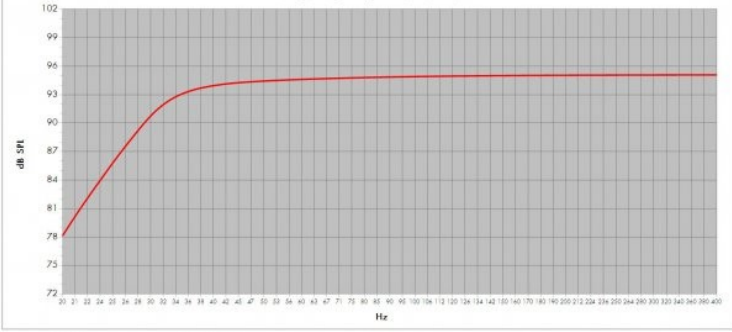
### Service Kit

RCK18TBW1008
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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.

Frequency Response (1W/1m)



Model:	<b>1818W100</b>	Configuration:	<b>One Driver</b>
Enclosure Type:	<b>Bass Reflex</b>		
Internal Net Volume [liters]:	<b>200</b>		
Tuning Frequency [Hz]:	<b>32</b>	Port Area [cm <sup>2</sup> ]:	<b>339,6</b>
Frequency (-3 dB) [Hz]:	<b>32,2</b>	Port Length [cm]:	<b>31,7</b>