

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 ¹	1500 W
Continuous power handling ²	3000 W
Sensitivity (1W/1m) ³	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	Ceramic

Design

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

Parameters⁴

Fs	35 Hz
Re	5 Ω
Qes	0.41
Qms	8.0
Qts	0.39
Vas	175.0 dm ³ (6.18 ft ³)
Sd	1210.0 cm ² (187.6 in ²)
η ₀	1.76 %
X _{max}	12.0 mm
X _{var}	14.0 mm
M _{ms}	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 ³ (0.39 ft ³)
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)

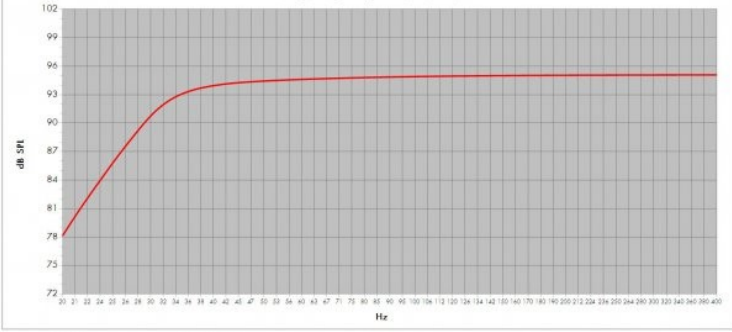
Service Kit

RCK18TBW1008

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