

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	Ferrite

Design

Spider	Double Silicone
Pole design	T-Pole
Woofer 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	5.3 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 _o	1.76 %
Xmax	12.0 mm
Xvar	14.0 mm
Mms	245 g
Bl	26.4 Txm

Parameters

Le	2.45 mH
EBP	85 Hz

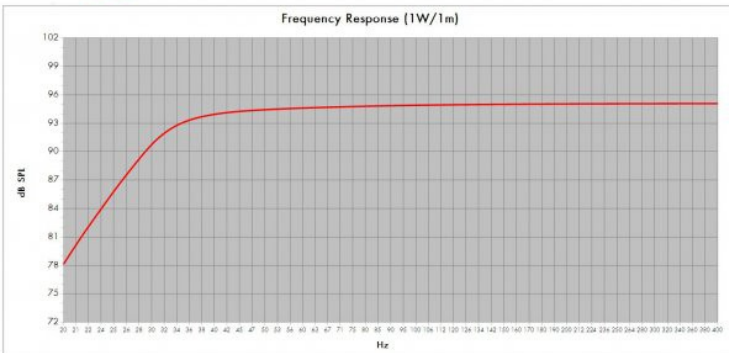
Mounting And Shipping Info

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.



Model: 18TBW100
 Enclosure Type: Bass Reflex Configuration: One Driver
 Internal Net Volume (liters): 200
 Tuning Frequency (Hz): 32 Port Area (cm²): 339,6
 Frequency (-3 dB) (Hz): 32,2 Port Length (cm): 31,7