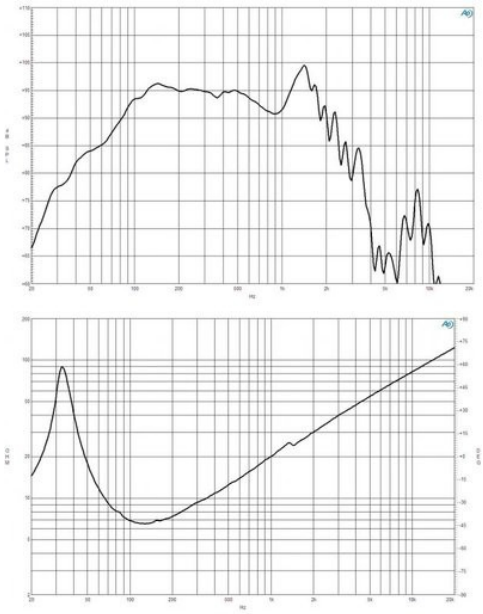






18TBW100

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

Parameters[4]

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_0	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.

