

18NW100

LF Drivers - 18.0 Inches



2400 W continuous program power capacity
100 mm (4 in) copper voice coil
35 - 1000 Hz response
98 dB sensitivity
FEA optimized Neodymium magnet assembly
Double silicone spider with optimized compliance
Ventilated voice coil gap for reduced power compression

Specifications

Nominal diameter	460 mm (18.0 in)
Nominal impedance	8 Ω
Minimum impedance	6.3 Ω
Nominal power handling[1]	1200 W
Continuous power handling[2]	2400 W
Sensitivity (1W/1m)[3]	98.0 dB
Frequency range	35 - 1000 Hz
Voice coil diameter	100 mm (4.0 in)
Winding material	Copper
Former material	Glass Fibre
Winding depth	25 mm (1.0 in)
Magnetic gap depth	12 mm (0.5 in)
Flux density	1.2 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	160.0 dm^3 (5.65 ft^3)
Recommended tuning	37 Hz

Parameters[4]

Fs	31 Hz
Re	5.1 Ω
Qes	0.27
Qms	4.2
Qts	0.26
Vas	252.0 dm^3 (8.9 ft^3)
Sd	1210.0 cm^2 (187.6 in^2)
η_0	2.7 %
Xmax	9.0 mm
Xvar	11.0 mm
Mms	211 g
Bl	28.0 Txm

Parameters

Le	1.7 mH
EBP	114 Hz

Mounting And Shipping Info

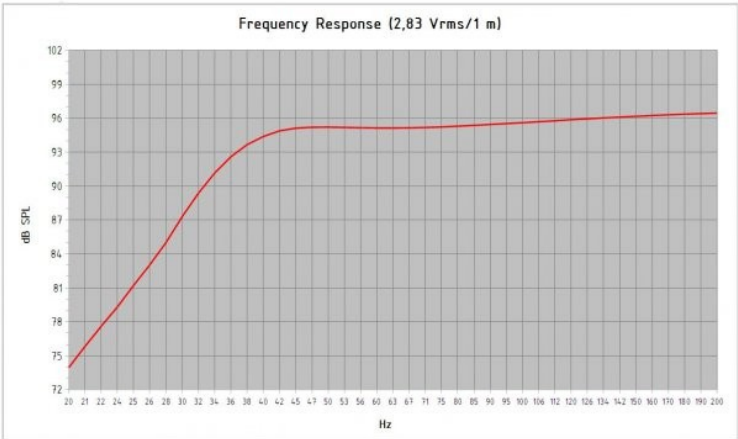
Overall diameter	460 mm (18.0 in)
Bolt circle diameter	440 mm (17.3 in)
Baffle cutout diameter	422.0 mm (16.6 in)
Depth	209 mm (8.2 in)
Flange and gasket thickness	16 mm (0.62 in)
Air volume occupied by driver	8.5 dm^3 (0.3 ft^3)
Net weight	9.3 kg (20.5 lb)
Shipping weight	10.8 kg (23.8 lb)
Shipping box	500x500x250 mm (19.7x19.7x9.8 in)

Service Kit

RCK18NW1008

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.

B&C SPEAKERS



Model:	***18 NW 100***				
Enclosure Type:	***Bass Reflex***				
Internal Net Volume (Liters):	***160***				
Tuning Frequency (Hz):	***37***	*Port Area (cm²):*	***339,6***		
Frequency (-3 dB) (Hz):	***38,7***	*Port Length (cm):*	***28,5***		
Excursion Limited Maximum SPL at 1 meter (dB):	***123,2***	*equal to*	***542,8***	*Watts*	*(Bass Band Power Rating)*
Thermal Limited Maximum SPL at 1 meter (dB):	***126,7***	*equal to*	***1200,0***	*Watts*	*(Mid Band Power Rating)*