

# 15NBX100

## LF Drivers - 15.0 Inches

2000 W continuous program power capacity  
100 mm (4 in) copper voice coil  
35 - 1500 Hz response  
97 dB sensitivity  
FEA optimized Neodymium magnet assembly  
Aluminium demodulating ring allows a very low distortion figure  
Double silicone spider with optimized compliance  
Ventilated voice coil gap for reduced power compression



### Specifications

Nominal diameter	380 mm (15.0 in)
Nominal impedance	8 $\Omega$
Minimum impedance	6.4 $\Omega$
Nominal power handling <sup>1</sup>	1000 W
Continuous power handling <sup>2</sup>	2000 W
Sensitivity (1W/1m) <sup>3</sup>	97.0 dB
Frequency range	35 - 1500 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	11 mm (0.43 in)
Flux density	1.1 T

### Design

Surround shape	Triple Roll
Cone shape	Exponential
Magnet material	Neodymium Ring

### Design

Spider	Double Silicone
Pole design	T-Pole
Woofer cone treatment	TWP Waterproof Both Sides
Recommended enclosure	114.0 dm <sup>3</sup> (4.0 ft <sup>3</sup> )
Recommended tuning	35 Hz

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

Fs	36 Hz
Re	5.1 $\Omega$
Qes	0.31
Qms	4.2
Qts	0.29
Vas	125.0 dm <sup>3</sup> (4.4 ft <sup>3</sup> )
Sd	855.0 cm <sup>2</sup> (132.5 in <sup>2</sup> )
$\eta_0$	2.0 %
Xmax	10.0 mm
Xvar	10.0 mm
Mms	151 g
Bl	25.0 Txm

### Parameters

Le	2.0 mH
EBP	116 Hz

### Mounting And Shipping Info

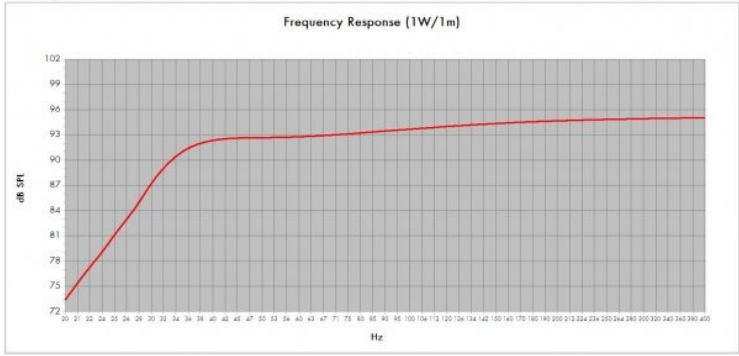
Overall diameter	393 mm (15.5 in)
Bolt circle diameter	374 mm (16.7 in)
Baffle cutout diameter	353.0 mm (13.9 in)
Depth	180 mm (7.1 in)
Flange and gasket thickness	15 mm (0.6 in)
Air volume occupied by driver	6.0 dm <sup>3</sup> (0.21 ft <sup>3</sup> )
Net weight	9.0 kg (19.8 lb)
Shipping units	1
Shipping weight	10.0 kg (22.0 lb)
Shipping box	420x420x200 mm (16.5x16.5x7.9 in)

### Service Kit

RCK15NBX1008
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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.



Model:	15NBX100	
Enclosure Type:	Bass Reflex	
Configuration:	One Driver	
Internal Net Volume (litres):	114	Q <sub>t</sub> : 7
Tuning Frequency (Hz):	35	Port Area (cm <sup>2</sup> ): 222,3
Frequency (-3 dB) (Hz):	39,1	Port Length (cm): 33,2
Excursion Limited Maximum SPL at 1 meter (dB): 120,4    equal to    416,2    Watts (Bass Band Power Rating)		
Thermal Limited Maximum SPL at 1 meter (dB): 125,1    equal to    1000,0    Watts (Mid Band Power Rating)		