

## KEY FEATURES:

**97.5 db 1W / 1m average sensitivity**

**100 mm high temperature sandwich voice coil**

**2400 W AES program power**

**Vented neodymium magnet assembly with massive heatsink**

**Triple aluminium demodulating rings for lower THD and improved heat dissipation**

**Double silicone spider for improved excursion control and linearity**

**Water protected cone (front)**

## Application : High Power Bass

The **18NXB1200** neodymium bass loudspeaker is specially designed to deliver very high impact bass response, with exceptional high power capacity. It incorporates an 4" sandwich voice coil, double silicone spider assembly, carbone paper cone and die cast vented aluminium frame. It has powerful, vented neodymium magnetic structure with massive heatsink which reduce power compression. With used in triple demodulating rings is dramatically reduced the THD. The result is high efficient transducer for subwoofer applications, with the ability to handle very high excursion with low distortion and reduced thermal power compression.

## SPECIFICATIONS

Nominal Diameter	18"/461 inch/mm
Impedance	8 Ohm
Minimum Impedance	6.88 Ohm
Power Capacity AES <sup>1</sup>	1200 W
Program Power <sup>2</sup>	2400 W
Sensitivity	(50-200 Hz) 97.5 dB/W/m
Frequency Range	35 - 1000 Hz
Voice Coil Diameter	100 mm
Voice Coil Material	Copper
Voice Coil Former	Glassfiber
Voice Coil Winding Depth	31 mm
Magnet Gap Depth	14 mm
Cone Material	Carbone paper
Basket	Die cast aluminium
Magnet	Neodymium
Flux Density	1.05 T

1. AES standard. Power is calculated on rated minimum impedance. Measurement is in 180 L box enclosure tuned 43 Hz using a 40-400 Hz band limited pink noise test signal applied continuously for 2 hours.
2. Program power is defined as 3db greater than AES Power Capacity.

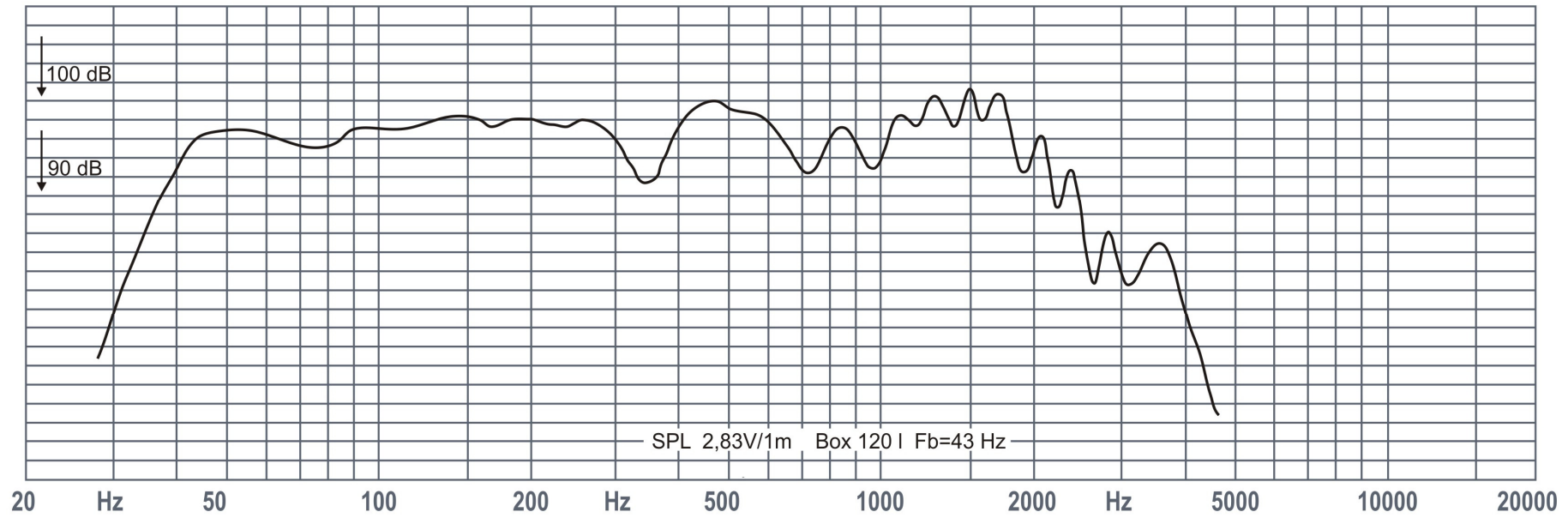
\* Linear Mathematical Xmax is calculated as:  $(H_{vc} - H_g)/2 + H_g/4$  where  $H_{vc}$  is the voice coil depth and  $H_g$  is the gap depth.

## THIELE-SMALL PARAMETERS

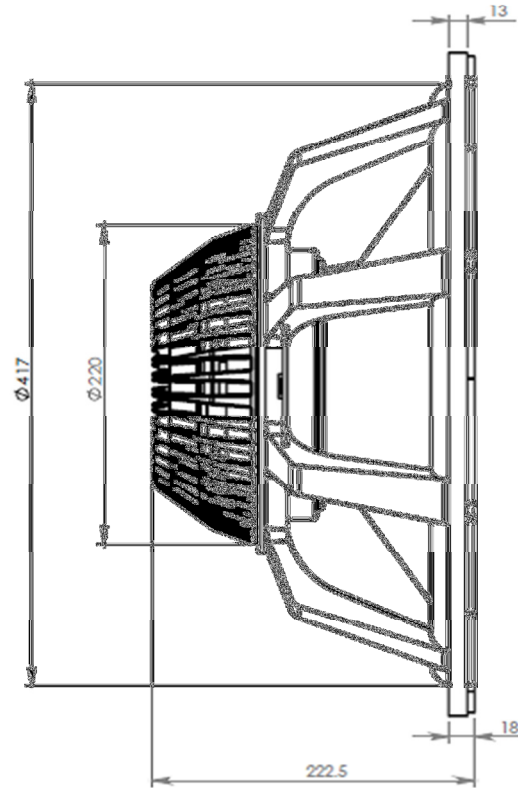
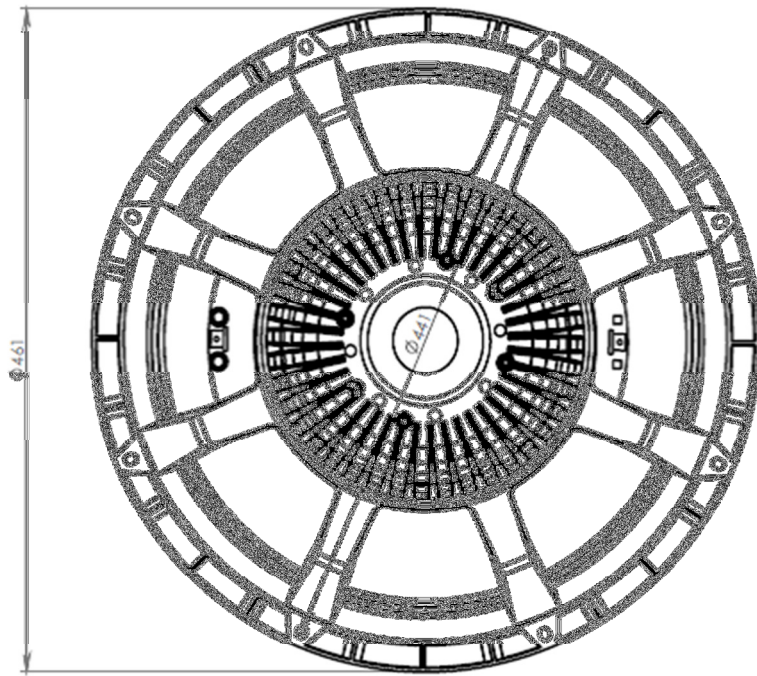
Resonance Frequency	35.83 Hz
Mechanical Efficiency Factor (Qms)	9.24
Electrical Efficiency Factor (Qes)	0.291
Total Q (Qts)	0.282
Equivalent Air Volume (Vas )	159.61 Litres
Diaphragm mass ind. airload (Mms)	212.81 grams
Voice Coil Resistance Re	5.30 Ohms
Effective Diagram Area (Sd)	1158 cm <sup>2</sup>
Peak Linear Displacement of Diaphragm (Xmax)*	± 11.5 mm
Mechanical Compliance of Suspension (Cms)	0.0927 mm/N
BL Product (BL)	29.35 T.m
V.C. Inductance at 1 kHz (Le)	1.29 mH

## MOUNTING INFORMATION

Overall Diameter	461 mm
Baffle Hole Diameter	416 mm
Number of Mounting Holes	8 elliptic 7 x 8,5 mm
Bolt Circle Diameter	438/441 mm
Overall Depth	222.5 mm
Net Weight	8.95 kg



Frequency Responce



**OBERTON**

model: 18NXB1200

Dimensions are in mm

Scale: 1:4