



## KEY FEATURES:

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

**77 mm high temperature voice coil**

**900 W AES program power**

**Vented neodymium magnet assembly with massive heatsink**

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

**Silicone spider**

## Application : High Output Midbass with extended midrange

12NXL400 loudspeaker combining high efficiency with high power handling capabilities, with use of 77 mm aluminium voice coil and silicone spider. It features aluminium die cast frame with integrated triple demodulating rings and vented neodymium magnet structure. The massive heatsink improve the cooling of the magnet structure, which reduce power compression. 12NXL400 is suitable when fast and precise midbass reproduction is required.

## SPECIFICATIONS

Nominal Diameter	12"/315 inch/mm
Impedance	8 Ohm
Minimum Impedance	7.33 Ohm
Power Capacity AES <sup>1</sup>	450W
Program Power <sup>2</sup>	900 W
Sensitivity	(200 -2000 Hz) 101 dB/W/m
Frequency Range	50 - 3500 Hz
Voice Coil Diameter	77 mm
Voice Coil Material	Aluminium
Voice Coil Former	Kapton™
Voice Coil Winding Depth	15 mm
Magnet Gap Depth	9 mm
Cone Material	Paper
Basket	Die Cast Aluminium
Magnet	Neodymium
Flux Density	1.45 T

1. AES standard. Power is calculated on rated minimum impedance. Measurement is in 65 L box enclosure tuned 63 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.

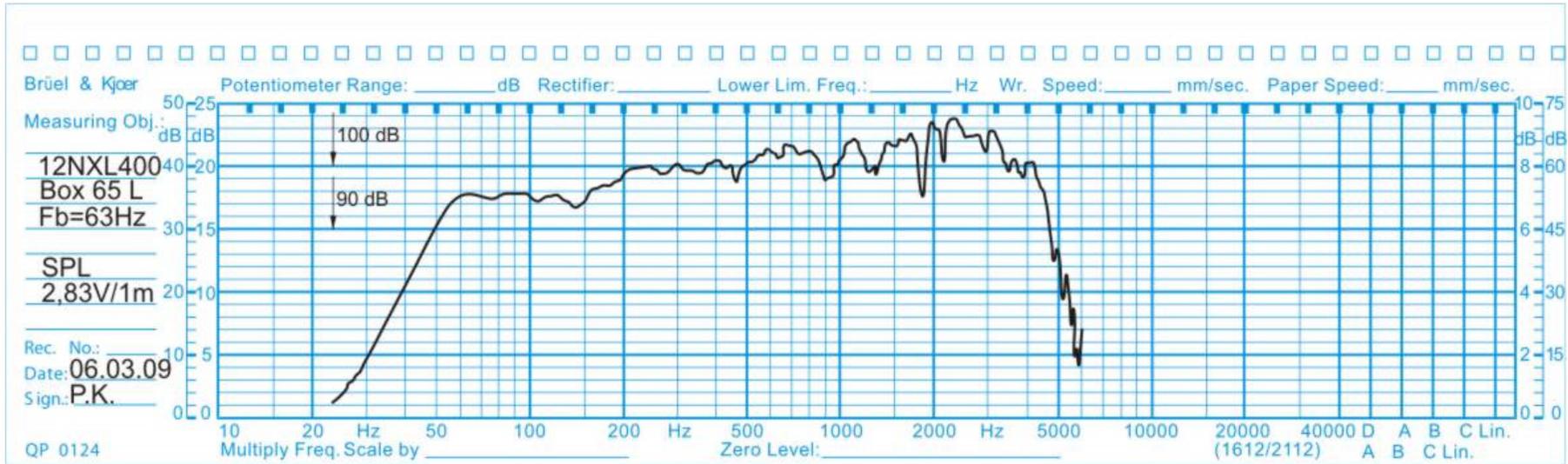
\* Linear Mathematical Xmax is calculated as:  $(H_{vc} - H_g)/2 + H_g/4$  where Hvc is the voice coil depth and Hg is the gap depth.

## THIELE-SMALL PARAMETERS

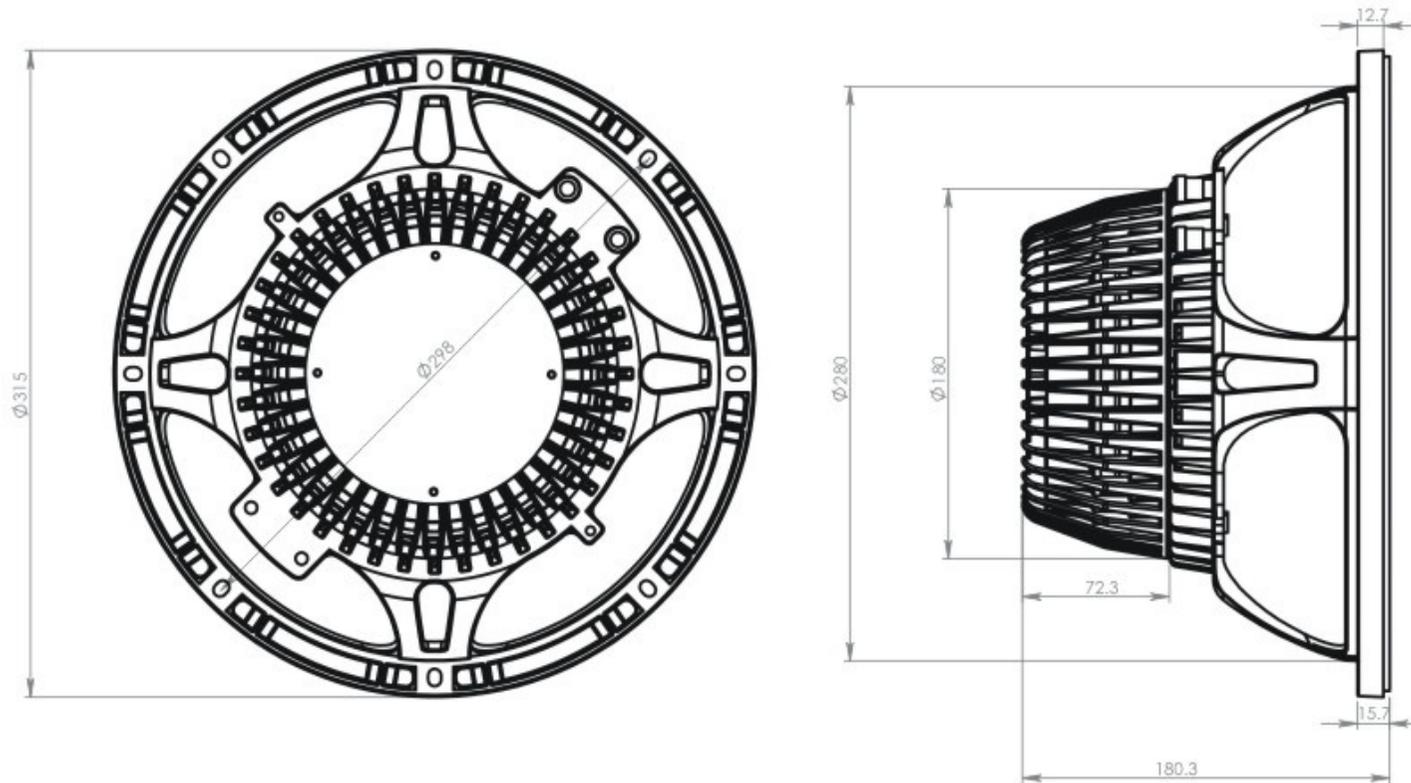
Resonance Frequency	48.60 Hz
Mechanical Efficiency Factor (Qms)	11.90
Electrical Efficiency Factor (Qes)	0.207
Total Q (Qts)	0.203
Equivalent Air Volume (Vas )	79.24 litres
Diaphragm mass ind. airload (Mms)	50.06 grams
Voice Coil Resistance Re	5.70 Ohms
Effective Diagram Area (Sd)	514.7 cm <sup>2</sup>
Peak Linear Displacement of Diaphragm (Xmax)*	±5.25 mm
Mechanical Compliance of Suspension (Cms)	0.214 mm/N
BL Product (BL)	20.57 T.m
V.C. Inductance at 1 kHz (Le)	0.69 mH

## MOUNTING INFORMATION

Overall Diameter	315 mm
Baffle Hole Diameter	280 mm
Number of Mounting Holes	8 elliptic 7x8 mm
Bolt Circle Diameter	296 / 298 mm
Overall Depth	180.3 mm
Net Weight	5.05 kg



Frequency Responce



**OBERTON**

model: 12NXL400

Dimensions are in mm

Scale: 1:3