OBERTON
Professional Loudspeakers

KEY FEATURES:

98 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 Power Midbass

12NB400 loudspeaker combining good linearity and 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. 12NB400 is suitable for application as LF driver in compact 2- way boxes, and small stage monitors.

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SPECIFICATIONS

Nominal Diameter	12"/315 inch/mm
Impedance	8 Ohm
Minimum Impedance	6.96 Ohm
Power Capacity AES [1]	450 W
Program Power [2]	900 W
Sensitivity	(200 -2000 Hz) 98 dB/W/m
Frequency Range	50 - 2000 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 with glassfiber
Basket	Die Cast Aluminium
Magnet	Neodymium
Flux Density	1.45 T

THIELE-SMALL PARAMETERS

Resonance Frequency	43.58 Hz
Mechanical Efficiency Factor (Qms)	10.39
Electrical Efficiency Factor (Qes)	0.183
Total Q (Qts)	0.180
Equivalent Air Volume (Vas)	70.45 litres
Diaphragm mass ind. airload (Mms)	59.82 grams
Voice Coil Resistance Re	5.00 Ohms
Effective Diagram Area (Sd)	514.7 cm^2
Peak Linear Displacement of Diaphragm (Xmax)*	±5.25 mm
Mechanical Compliance of Suspension (Cms)	0.196 mm/N
BL Product (BL)	20.34 T.m
V.C. Inductance at 1 kHz (Le)	0.83 mH

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: (Hvc - Hg)/2 + Hg/4 where Hvc is the voice coil depth and Hg is the gap depth.

MOUNTING INFORMATION

Overall Diameter	315 mm
Baffle Hole Diameter	280 mm
Number of Mounting Holes	8 eliptic 7x8 mm
Bolt Circle Diameter	296 / 298 mm
Overall Depth	180.3 mm
Net Weight	5.00 kg

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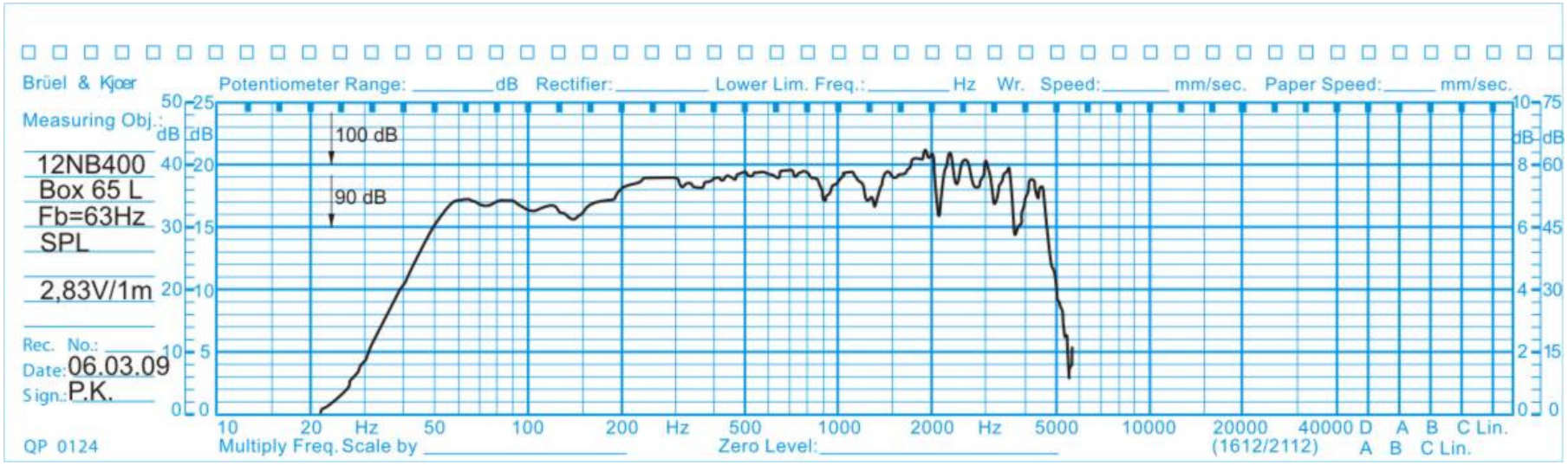

Frequency Responce

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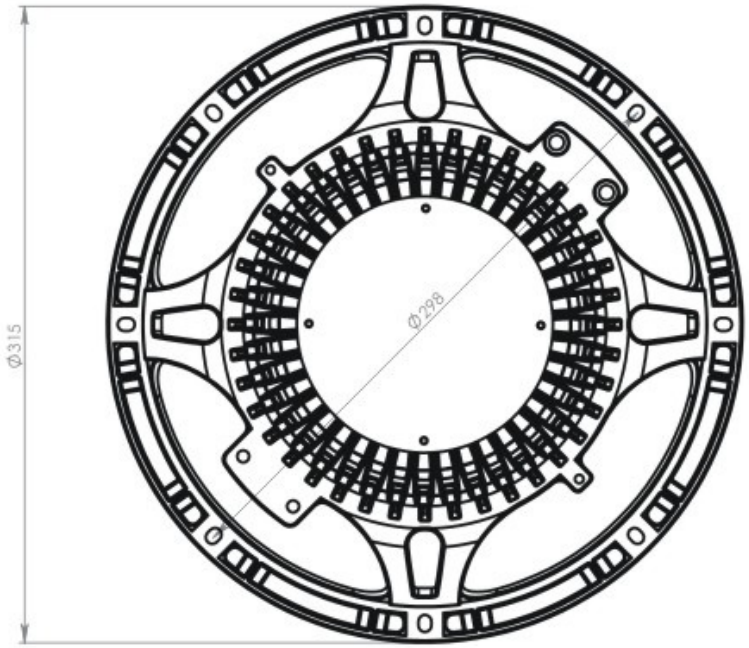

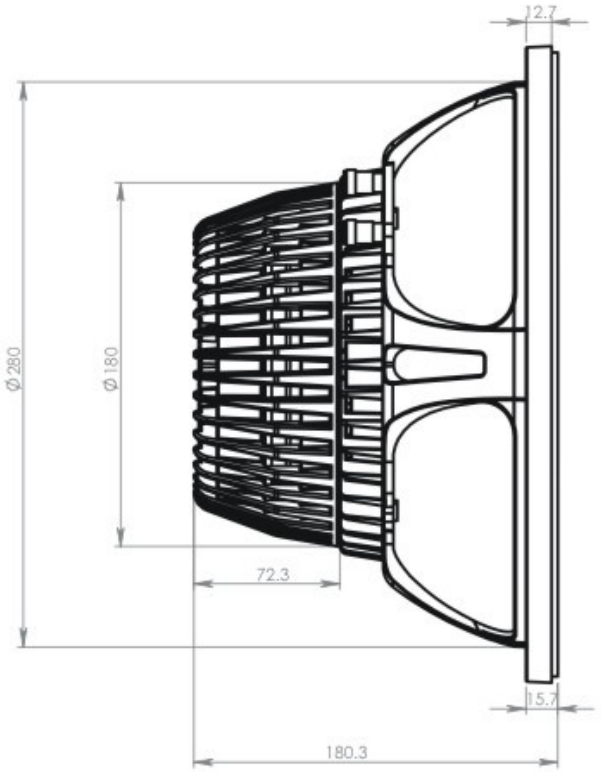

OBERTON		
model: 12NB400		
Dimensions are in mm		Scale: 1:3