KEY FEATURES:

98 db SPL 1W / 1m (LF) average sensitivity
77 mm (3") high temperature voice coil (LF)
700 W AES program power (LF)
Triple aluminium demodulating rings
Double silicone spider
Water protected cone
1.4" exit HF neodymium compression driver
72 mm (2.85") HF high temperature voice coil
80 degrees nominal dispersion
Very light weight

Application: Stage monitors and compact bass reflex boxes.

Description: The 12NCX is a 12" / 1.4" coaxial transducer designed for use in compact reflex enclosures and stage monitors with a nominal dispersion of 80 degrees. The low profile, smooth curvilinear LF cone provides smooth response within its intended frequency range and water prove protective coating, allowing application in a wide range of environments. The state-of-the-art 77 mm (3 in) LF voice coil has Kapton former, which together with high temperature resistant resin ensure high reliability by high power.

A triple aluminium demodulating rings on the magnet structure reduce distortion and inductance and improve transient response.

The neodymium 1.4" exit compression driver adopted is our ND3672 model.

The HF driver diaphragm assembly, using double layer polyester dome this together with phasing plug improve linearity of frequency response in high end. The HF magnet structure has cooper ring on the pole piece, which reduces the inductance figure of frequencies above 10 kHz, improving phase and impedance linearisation. This ensures extremely high SPL in the high end of the frequency response

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SPECIFICATIONS

Nominal diameter	315 mm (12 in)
Impedance	LF 8 Ohm /HF 16 Ohm
Minimum impedance LF	6.73 Ohm
Frequency range	60 - 16000 Hz
Dispersion angle	80 deg

LF unit

Sensitivity (200-2000 Hz)	98 dB
Power Capacity AES [1]	350 W
Program Power [2]	700 W
Voice Coil Diameter	77 mm (3 in)
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	1.1 T

HF unit

Minimum impedance HF	11.59 Ohms
DC resistance	10 Ohms
Sensitivity (1000-15000 Hz)	106 dB
Power capacity (1000-20000 Hz)	75 W
Program power	150 W
Voice coil diameter	72 mm (2.85 in)
Winding material	Aluminium
Diaphragm material	sandwich polyester
Flux density	1.85 T

THIELE-SMALL PARAMETERS

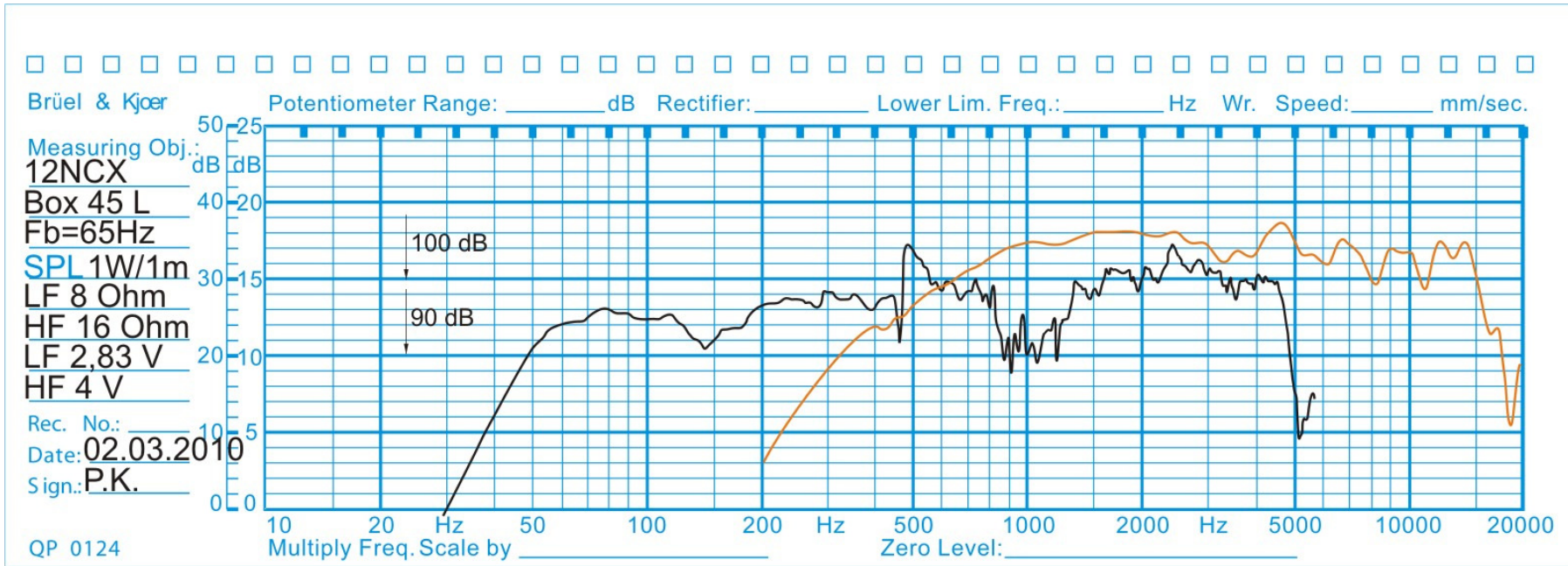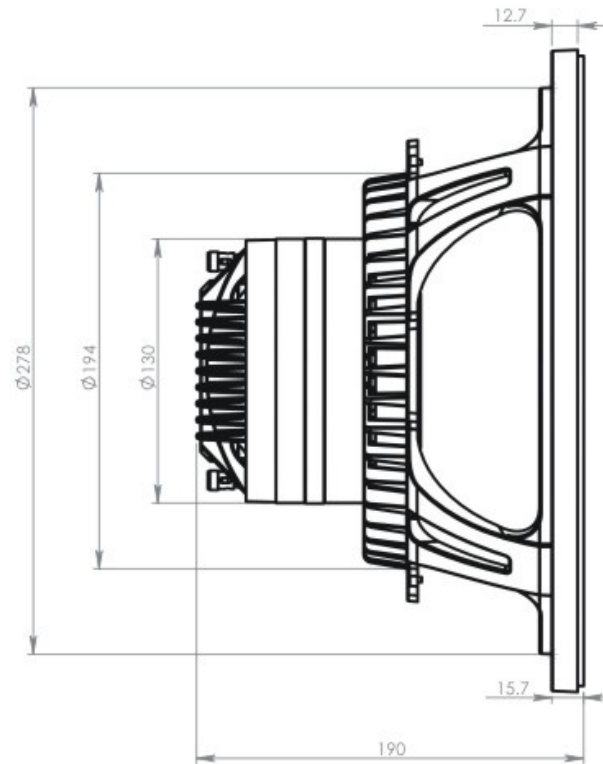|	
Resonance Frequency	58.23 Hz
Mechanical Efficiency Factor (Qms)	6.18
Electrical Efficiency Factor (Qes)	0.31
Total Q (Qts)	0.30
Equivalent Air Volume (Vas)	62.92 L
Diaphragm mass ind. airload (Mms)	43.92 g
Voice Coil Resistance Re	5.7 Ohms
Effective Diagram Area (Sd)	514.7 cm^2
Peak Linear Displacement of Diaphragm (Xmax)*	± 5.25 mm
Mechanical Compliance of Suspension (Cms)	0.17 mm/N
BL Product (BL)	17.19 T.m
V.C. Inductance at 1 kHz (Le)	0.58 mH

MOUNTING INFORMATION

Overall diameter	315 mm (12 in)
Depth	190 mm
Baffle hole diameter	280 mm
Bolt circle diameter	296/298mm
Number of mounting holes	8 eliptic 7x8 mm
Net weight	5.4 kg

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.

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Potentiometer Range: _____ dB Rectifier: _____ Lower Lim. Freq.: _____ Hz Wr. Speed: _____ mm/sec.

Measuring Obj.:
12NCX
Box 45 L
Fb=65Hz
SPL 1W/1m
LF 8 Ohm
HF 16 Ohm
LF 2,83 V
HF 4 V

Rec. No.: _____
Date: **02.03.2010**
Sign.: **P.K.**

QP 0124

Multiply Freq. Scale by _____ Zero Level: _____

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Ø 298

12.7

Ø 315

Ø 278

Ø 194

Ø 130

15.7

190

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model: **12NCX**

Dimensions are in mm

Scale: 1:3