

15" | 15NPW

Woofer



Key features:

- CARBON FIBER LOADED PAPER CONE
- DOUBLE SILICONE SPIDER
- HIGH POWER HANDLING

Design notes:

The 15NPW is a high efficiency, (97 dB 1 watt / 1 meter) 15-inch woofer with linear frequency response characteristics, high power handling capability while generating low harmonic distortion artifacts. The 15NPW uses a lightweight carbon fiber loaded cone assembly along with a high excursion triple roll constant geometry surround. This combination provides remarkable strength, high efficiency and a peak to peak maximum excursion of 15mm.

Woofer features REDCATT double silicone sealed spider.

Power Handling

At the core of the 15NPW is it, Åôs voice coil technology featuring a composite Polyimide former material capable of withstanding peak temperatures in excess of 350degC, well beyond the thermal requirements of modern professional audio systems.

The 15NPW cone and dust cap

are made using an advanced carbon fiber loaded REDCATT pulp. The woofer cone is also extensively treated to withstand harsh environments and high humidity. Metal parts in the speaker assembly are coated for extreme weatherization protection.

Specifications:

General specs

Nominal Diameter: 15"

Rated Impedance: 8 ohm

Power handling

AES Power: 1200 watts

Program Power: 2400 watts

Peak Power: 4800 watts

Voice Coil

Diameter: 4 in.

Winding wire: Copper

Former: Glass Fiber

Winding height: 25.5 mm

T/S Parameters

Resonant frequency: 40 Hz

Re: 5.6 ohm

Qes: 0.28

Qms: 8.77

Qts: 0.27

Vas: 107 liters

Sd: 881 cm²

Sensitivity: 97 dB

Mms: 155.1 grams

Bl: 28.3

Le: 1.65 mH

Design details

Surround Material: Fabric

Cone material: Paper

Spider: Nomex

Plate thickness: 14 mm

Peak to peak linear cone displacement: 14.6 mm

Overall diameter: 392 mm

Bolt circle diameter: 373 mm

Baffle cutout dia.: 360 mm

Number of mounting holes: 8

Depth (flange to rear): 155.5 mm

Net weight: 8.5kg

Ordering codes:

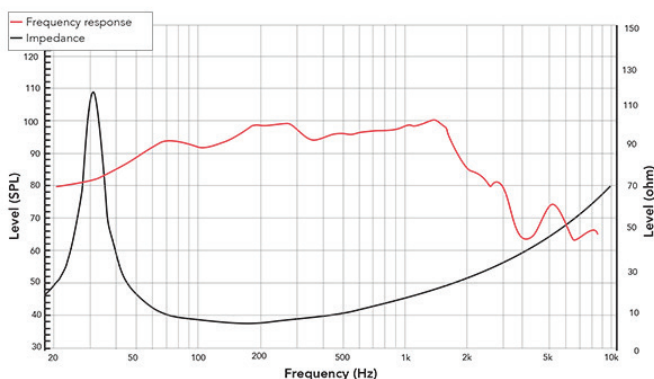
15NPW-X8 ohm-016

Recone kits:

RC15NPWX-016

In many cases REDCATT produces 4 ohms, 8 ohms and 16 ohms versions. Indicate what impedance do you need in your request.

Frequency response & Impedance



Frequency response measured on IAC baffle

2D drawing

