15" | 15NPW

Neodymium Woofer

REDCAT

Key features:

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

Design notes:

The 15NPW is a high efficiency, (97 dB 1watt / 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 38mm. Woofer features REDCATT double silicone sealed spider.

Power Handling
At the core of the 15NPW is it‚Äôs 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:	97.34 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	7.3 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

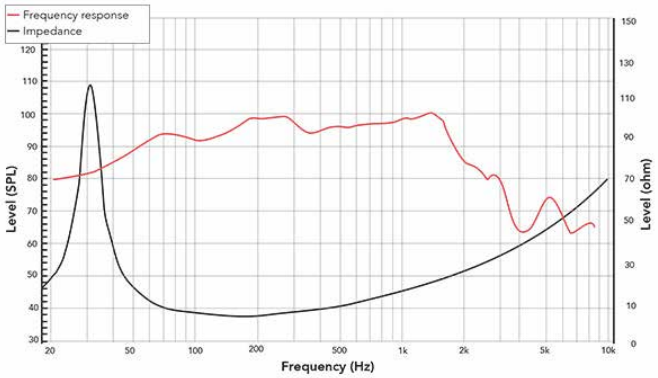
Ordering codes:

15NPWX8-016

Recone kits:

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