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 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 15mm. Woofer features REDCATT double silicone sealed spider.

Power Handling

At the core of the 15NPW is it's 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:	**101.6 mm**
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	
Spider:	**Nomex**
Plate thickness:	**14 mm**
Overall diameter:	**392 mm**
Bolt circle diameter:	**373 mm**
Baffle cutout dia.:	**360 mm**
Mounting holes:	**8**
Depth:	**155.5 mm**
Net weight:	**8.5 kg**

Ordering codes:

DR-15-027-8R-B2-C0001

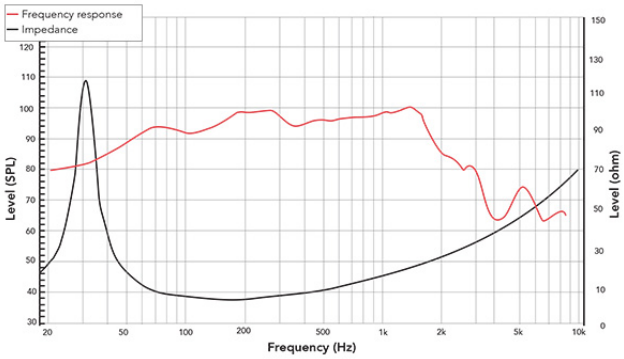
Legacy code: **15NPWX8-016**

Recone kits:

RC15NPWX8-016

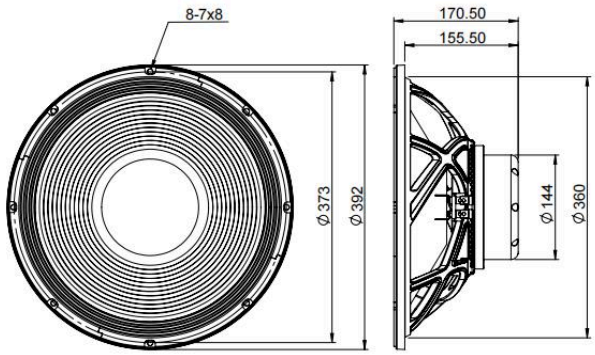
In many cases REDCATT produces 4, 8 and 16 ohm versions — indicate what impedance you need in your request.

Frequency response & Impedance



Frequency response measured on IEC baffle

2D drawing



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