

Ordering code: 15NPW-016

Neodymium Low Frequency Woofer

Cont. Power	Sens.	Fs	Freq. Range	VC Dia.	VC Wire	Cone/Surround/Dome	Magnet type
2400 watts	97 dB	42 Hz	35 Hz - 2,500 Hz	4" 1in/1out	Copper	Paper w. CF/ Fabric	Neodymium



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

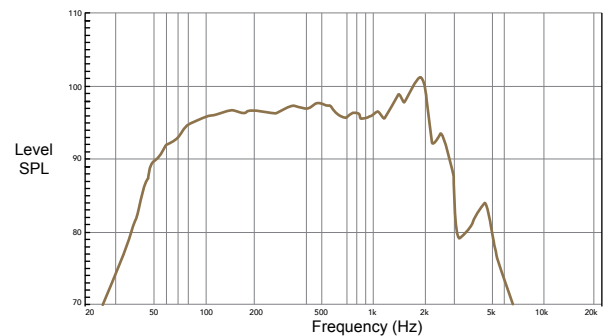
At the core of the 15NPW is its voice coil technology featuring a composite Polyimide former material capable of withstanding peak temperatures in excess of 350degC, well beyond the thermal requirements of modern professional audio systems.

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.

General Specifications

Nominal Diameter:	381 mm (15 in.)
Rated Impedance:	8 ohm
Power Handling:	
AES Power:	1200 Watts
Power Compression @-10dB	0.8dB
Power Compression @-10dB	1.6dB
Power Compression @Max Power	2.5dB
Maximum Recommended Xover Freq.:	2,000 Hz
Recommended Enclosure Volume:	70 - 180 Liters 2 - 6 cuft.
Cone Design:	Strght Gmtry, Redcatt Cell.
Fs	42 Hz
Re	5.71 Ohm
Sd	881 cm ² (137 in. ²)
Qms	9.4
Qes	0.32
Qts	0.31
Vas	99 Liters
Mms	154 g
BL product (force factor)	27 Tm
Peak to peak displacement (mm)	20 mm
Le (mH @1kHz)	1.65
Overall diameter	392 mm (15.43 in.)
No. of mounting holes	8
Bolt circle diameter	372 mm (14.64 in.)
Front mount baffle cutout dia.	362 mm (14.25 in.)Nominal
Rear mount baffle cutout diameter	360 mm (14.17 in.)Nominal
Total depth	167.5 mm (6.59 in.)
Flange and gasket thickness	12 mm (0.47 in.)
Net weight	8.1 kg (17.8 lbs.)
Shipping weight	8.7 kg (19.1 lbs.)
Packing Dimensions	450x450x200mm

Frequency Response



Frequency response measurement with transducer mounted in a 180 liter vented enclosure tuned to 35Hz

Impedance Response

