



**Key features:**

- STRONG GLASS FIBER LOADED CONE
- HIGH TEMPERATURE VOICE COIL, DOUBLE LAYER SILI-CONE SPIDER
- HIGH POWER HANDLING

**Design notes:**

The 18NPW is a high efficiency, (98 dB 1watt / 1 meter) 18-inch woofer with incredibly linear frequency response characteristics, extreme high power handling capability while generating low harmonic distortion artifacts. The 18NPW uses a lightweight, but strong, glass 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 maxi-

mum excursion of 30mm.

**Power Handling**  
At the core of the 18NPW is it,Äôs voice coil technology featuring a composite Polyimide former material capable of withstanding peak temperatures in excess of 350→∞C, well beyond the thermal requirements of modern professional audio systems. The 18NPW delivers incredible performance.

REDCATT has implemented a double layer/silicone spider design to ensure long term Fs memory, consistency and diminish anomalies associated with spider deterioration. The sealed spider works as a air pump and pushes the air trough out motor to increase heat transfer and cooling of the parts.

**Specifications:**

**General specs**

Nominal Diameter: 18"  
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: 23.7 mm

**T/S Parameters**

Resonant frequency: 36 Hz  
Re: 5.1 ohm  
Qes: 0.28  
Qms: 8.39  
Qts: 0.278  
Vas: 211.5 liters  
Sd: 1257 cm2  
Sensitivity: 99.14 dB  
Mms: 199.4 grams  
Bl: 27.3  
Le: 1.51 mH

**Design details**

Surround Material: Fabric  
Cone material: Paper  
Spider: Nomex  
Plate thickness: 14 mm  
Peak to peak linear cone displacement: 10.7 mm  
Overall diameter: 468 mm  
Bolt circle diameter: 442 mm  
Baffle cutout dia.: 426 mm  
Number of mounting holes: 8  
Depth (flange to rear): 189 mm  
Net weight: 9.4kg

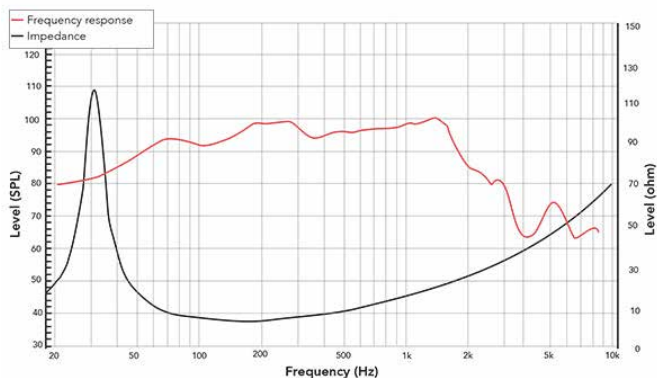
**Ordering codes:**

18NPWX8-017

**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**

