



Key features:

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

Design notes:

The 18NPW is a high efficiency, (99 dB 1 watt / 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 21.5mm.

Power Handling

At the core of the 18NPW is it, Åôs 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 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: 21.4 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:

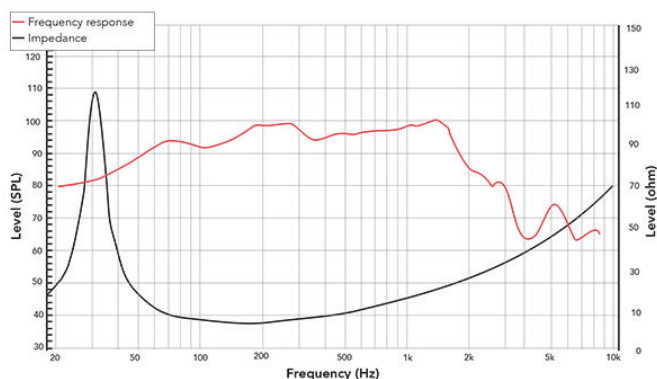
18NPW-X8 ohm-017

Recone kits:

RC18NPWX-017

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

