

18" 18NPW

Woofer



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 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 maximum excursion of 21.5mm.

Power Handling

At the core of the 18NPW is it's 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

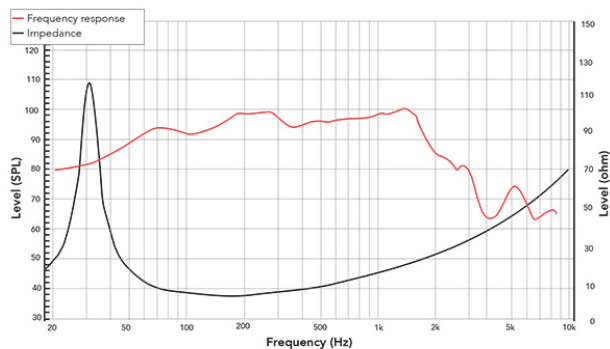
performance.

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:

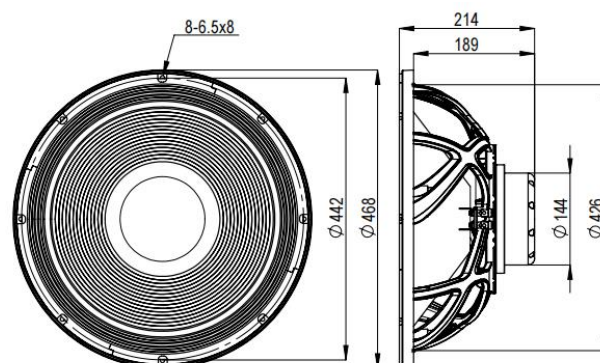
General specs	T/S Parameters	Design details	Ordering codes:
Nominal Diameter: 18 "	Resonant frequency: 36 Hz	Surround Material: fabric	DR-18-019-8R-B2-C0001
Rated Impedance: 8 ohm	Re: 5.1 ohm	Cone material: Paper CF	Legacy code: 18NPWX8-017
Power handling	Qes: 0.28	Spider: Nomex	Recone kits:
AES Power: 1200 watts	Qms: 8.39	Plate thickness: 14 mm	RC18NPWX8-017
Program Power: 2400 watts	Qts: 0.278	Overall diameter: 468 mm	In many cases REDCATT produces 4, 8 and 16 ohm versions — indicate what impedance you need in your request.
Peak Power: 4800 watts	Vas: 211.5 liters	Bolt circle diameter: 442 mm	
Voice Coil	Sd: 1257 cm²	Baffle cutout dia.: 426 mm	
Diameter: 101.6 mm	Sensitivity: 99.14 dB	Mounting holes: 8	
Winding wire: Copper	Mms: 199.4 grams	Depth: 189 mm	
Former: Glass Fiber	Bl: 27.3	Net weight: 9.4 kg	
Winding height: 23.7 mm	Le: 1.51 mH		

Frequency response & Impedance



Frequency response measured on IEC baffle

2D drawing



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