

18" | 18XR

Sub-woofer



Key features:

- CONE EXCURSION 56MM !! PATENTED DESIGN.
- 1 DEMODULATION COPPER RING, POWERFUL AND INNOVATIVE MOTOR STRUCTURE, INNOVATIVE VENTING SYSTEM
- DOUBLE SPIDER WITH SPACER, WOVEN-IN TINSEL WIRES, OPTIMIZED SURROUND

Design notes:

The 18XR is a truly groundbreaking subwoofer. REDCATT team has spent countless hours creating something outstanding. Where the conventional sub-woofers stop performing due to the design limitations, the XR series just starts and shines. With huge excursion, high BL, newly designed suspension system, we are giving you a product that will not limit you to achieve even your wildest sub-woofer dreams.

Motor Design

The magnetic design incorporates large neodymium magnets placed along the voice coil winding. This has allowed us to push the cone excursion to 52mm peak to peak. Unique gap venting ensures good air circulation and greatly improves the reliability of this driver. We have also developed a new technique for manufacturing deep copper caps.

The design further utilizes two, uncommonly large, spiders, spaced apart with spacer, hot-pressed tinsel wires onto the top spider, reinforced cone. The suspension is designed for large excursions. Large lightweight surround sports resonant control features that we fully FEM designed and optimized to provide the best possible performance under large excursions.

Specifications:

General specs

Nominal Diameter: 18"
Rated Impedance: 4 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: 22 mm

T/S Parameters

Resonant frequency: 21 Hz
Re: 3.3 ohm
Qes: 0.36
Qms: 17
Qts: 0.35
Vas: 300 liters
Sd: 1256.6 cm²
Sensitivity: 92 dB
Mms: 402 grams
BL: 22.2
Le: 0.54 mH

Design details

Surround Material: Rubber
Cone material: Paper
Spider: Nomex
Plate thickness: 56 mm
Peak to peak linear cone displacement: 52 mm
Overall diameter: 467.6 mm
Bolt circle diameter: 442 mm
Baffle cutout dia.: 422 mm
Number of mounting holes: 8
Depth (flange to rear): 257.2 mm
Net weight: 14.7kg

Ordering codes:

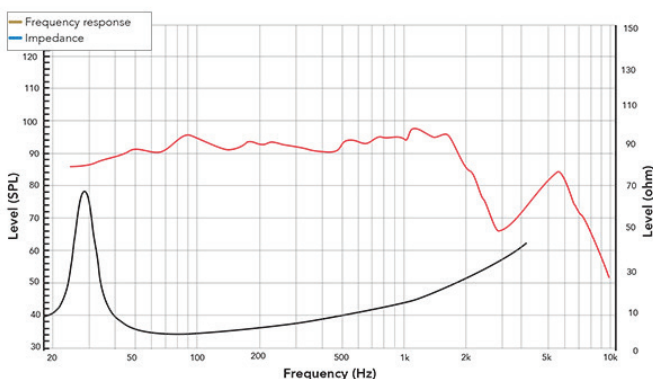
18XR-X4 ohm-304B

Recone kits:

RC18XR-304B

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

