

18" | 181XR

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, REINFORCED CONE EDGE.

Design notes:

Designed based upon the 18XR, the 181XR was designed for professional audio segment.

The basic characters and design concept remains the same for the 181XR. We have used newly designed 4 roll waterproof fabric surround that fully supports the high cone excursions of this incredible loud-speaker. The target was to push the envelope of possibilities. 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 44mm 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 dual, uncommonly large, spiders, spaced with spacer, hot-pressed tinsel wires onto the top spider, reinforced cone edge, reinforced surround to cone joint, reinforced spider to basket joints, etc.

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: 30 Hz

Re: 3.3 ohm

Qes: 0.24

Qms: 13.2

Qts: 0.23

Vas: 195 liters

Sd: 1256.6 cm²

Sensitivity: 97 dB

Mms: 306 grams

Bl: 28.3

Le: 1.3 mH

Design details

Surround Material: Fabric

Cone material: Paper

Spider: Nomex

Plate thickness: 56 mm

Peak to peak linear cone displacement: 44.4 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: 14.5kg

Ordering codes:

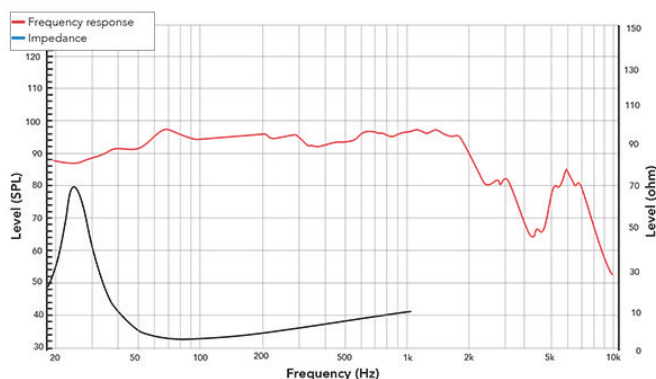
181XR-X4 ohm-350

Recone kits:

RC181XR-X350

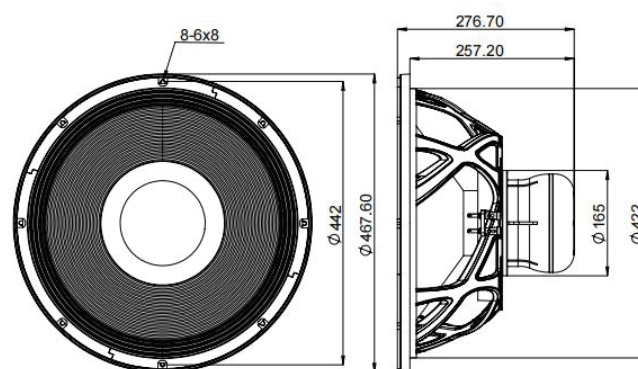
In many cases REDCATT produces 4 ohms, 8 ohms and 16 ohms versions. Indicate what impedance do you need in your request.

Frequency response & Impedance



Frequency response measured on IAC baffle

2D drawing



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