18" 181XR

Woofer

REDCAT

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 loudspeaker. 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:	101.6 mm
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:	96.54 dB
Mms:	306 grams
Bl:	28.3
Le:	1.3 mH

Design details	
Surround Material:	fabric
Cone material:	Paper GF
Spider:	Nomex
Plate thickness:	56 mm
Overall diameter:	467.6 mm
Bolt circle diameter:	442 mm
Baffle cutout dia.:	422 mm
Mounting holes:	8
Depth:	257.2 mm
Net weight:	14.5 kg

Ordering codes:

DR-18-007-4R-B2-C0001

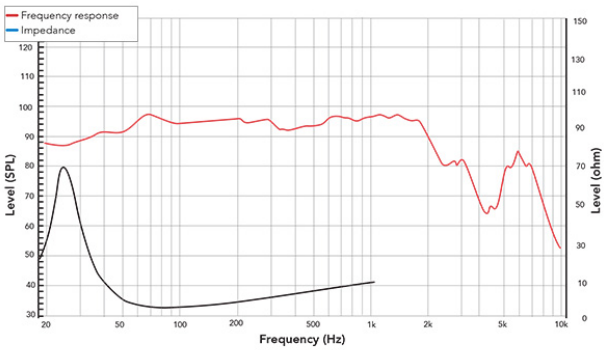
Legacy code: **181XRX4-350**

Recone kits:

RC181XRX4-350

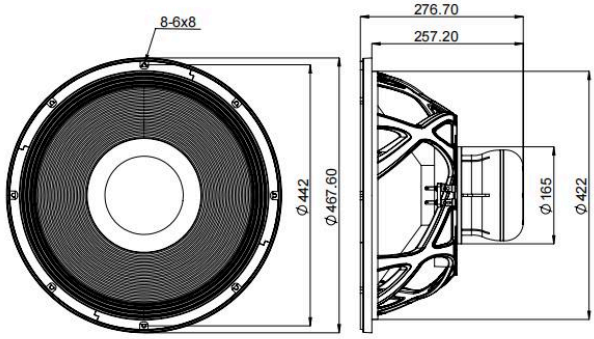
In many cases REDCATT produces 4, 8 and 16 ohm versions — indicate what impedance you need in your request.

Frequency response & Impedance



Frequency response measured on IEC baffle

2D drawing



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