





Key features:

- LINEAR CONE EXCUR-SION 60MM PEAK TO PEAK !!
- UNPARALLEL LOW DISTORTION AT LOW FREQUENCIES
- PATENTED DESIGN, INNOVATIVE MAGNETIC STRUCTURE & VENTING SYSTEM

Design notes:

The 21XR is a high efficiency, (96 dB 1watt / 1 meter) 21-inch woofer with incredibly linear frequency response characteristics. Our new and patented ground up motor design is a new approach to high-excursion woofers. The voice coil winding is always in the magnetic gap that is extremely wide. This feature ensures extremely low distortion across whole working range of this unique driver.

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 50mm 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 that are implemented in this design and covering the whole voice coil move-

ment..

The design further utilizes triple, uncommonly large, spiders, spaced with spacers, 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

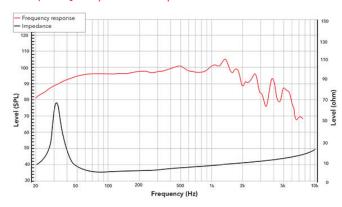
Nominal Diamete	r: 21 "
Rated Impedance	: 8 ohm
Power handling	
AES Power:	1800 watts
Program Power:	3600 watts
Peak Power:	7200 watts
Voice Coil	
Diameter:	5.3 in.
Winding wire:	Copper
Former:	Glass Fiber
Winding height:	21 mm

T/S Parameters	
Resonant frequency:	32.3 Hz
Re:	4.5 ohm
Qes:	0.51
Qms:	16.79
Qts:	0.5
Vas:	152.79 liters
Sd:	1662 cm2
Sensitivity:	96 dB
Mms:	488.58 grams
BI:	29.37
Le:	0.65 mH

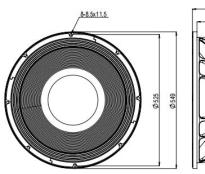
Design details	
Surround Material:	Fabric
Cone material:	Paper
Spider:	Nomex
Plate thickness:	67 mm
Peak to peak linear cone displacement	49.6 mm
Overall diameter:	549 mm
Bolt circle diameter:	525 mm
Baffle cutout dia.:	503 mm
Number of mounting holes:	8
Depth (flange to rear):	287 mm
Net weight:	23.8kg

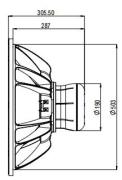
Ordering codes:
21XR-X8 ohm-347A
Recone kits:
RC21XRX-347A
In many cases REDCATT
produces 4 ohms, 8 ohms and
16 ohms versions. Indicate
what impedance do you need
in your request.

Frequency response & Impedance



2D drawing





Frequency response measured on IAC baffle