8" | 8FHM

Woofer

REDCAT

Key features:

- EXTENDED FREQUENCY RESPONSE
- 1K CARBON-FIBER NOMEX CORE HONEYCOMB CONE
- IDEAL FOR HIGH QUALITY HI-FI APPLICATIONS, STUDIO MONITORS

Design notes:

The 8FHM is a high efficiency, (89 dB 1watt / 1 meter) 8-inch mid-woofer with incredibly linear frequency response characteristics and ultra low harmonic distortion artifacts. The 8FHM uses a lightweight 1k carbon fiber material, assembled from both sides of Nomex honey-comb core. This unique cone provides the ideal weight to strength ratio. The rubber surround has been FEM modeled and optimized. The honeycomb cone with high end 1k carbon fiber material provides remarkable strength, while pushing the cone break-up modes to high frequencies, significantly extending the working range of the speaker.

The cone
The 8FHM cone is made using 1k carbon fiber hone-comb, placed from both sides of Nomex core, while the dustcap is made off hard-anodization reinforced aluminum. The dustcap shape and the hard anodizing are further improving the high frequency behavior.

Specifications:

General specs	
Nominal Diameter:	8"
Rated Impedance:	4 ohm

Power handling	
AES Power:	50 watts
Program Power:	100 watts
Peak Power:	200 watts

Voice Coil	
Diameter:	1.4 in.
Winding wire:	CCAW
Former:	kapton
Winding height:	18 mm

T/S Parameters	
Resonant frequency:	38 Hz
Re:	3.6 ohm
Qes:	0.41
Qms:	12.9
Qts:	0.39
Vas:	32.1 liters
Sd:	206.1 cm2
Sensitivity:	89 dB
Mms:	31.5 grams
Bl:	8.19
Le:	0.46 mH

Design details	
Surround Material:	Rubber
Cone material:	CF Honey-
Spider:	Nomex
Plate thickness:	8 mm
Peak to peak linear cone displacement	18.2 mm
Overall diameter:	223.5 mm
Bolt circle diameter:	210 mm
Baffle cutout dia.:	189 mm
Number of mounting holes:	6
Depth (flange to rear):	94.5 mm
Net weight:	2.8kg

Ordering codes:

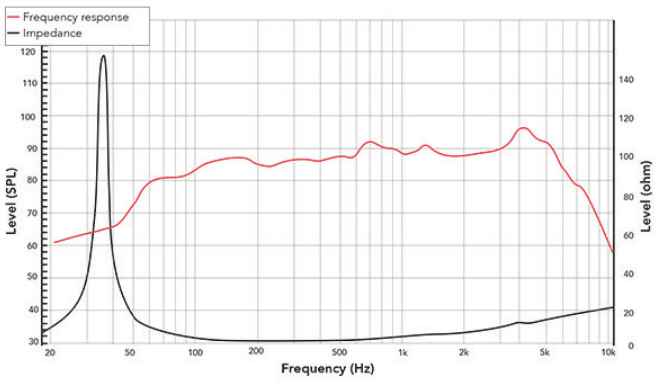
8FHM-X4 ohm-091

Recone kits:

RC8FHMX-091

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