



### Key features:

- EXTENDED FREQUENCY RESPONSE, HIGH EXCURSION, ULTRA LOW THD

- STATIC DEMODULATION COIL, LARGE SPIDER WITH STITCHED TINSEL WIRES

- CARBON FIBER LOADED PAPER CONE

### Design notes:

The 121XR was designed to be simply the best driver for 2-way and multi-way systems on the market, yet this driver will also shine in sub-woofer applications. The combination of our XR patented technology with static shorting coil brings an nonparallel opportunity to the audio designers. The common request for 2-way speakers is "more of everything". Designers wishes for more bass, more mids. Well, there

you have it! But not only that. We bring this with clarity in the mid-frequencies and undistorted bass. Our designers were able to achieve THD below 0.5% from 20Hz up to 2.5kHz. There isn't another driver like this on the market.

#### Motor Design

The magnetic design incorporates large neodymium magnets placed along the voice coil

winding, together with the 2nd and static coil placed on the pole piece. This has allowed us to push the cone excursion to 25mm peak to peak, while lowering the inductance. The shorting coil covers the complete main coil excursion. This is also an improvement compared to some previous designs on the market. Unique gap venting ensures good air circulation and greatly improves the reliability of this driver.

### Specifications:

| General specs     |             |
|-------------------|-------------|
| Nominal Diameter: | 12 "        |
| Rated Impedance:  | 8 ohm       |
| Power handling    |             |
| AES Power:        | 500 watts   |
| Program Power:    | 1000 watts  |
| Peak Power:       | 2000 watts  |
| Voice Coil        |             |
| Diameter:         | 63.5 mm     |
| Winding wire:     | Copper      |
| Former:           | Glass Fiber |
| Winding height:   | 18.3 mm     |

| T/S Parameters      |                     |
|---------------------|---------------------|
| Resonant frequency: | 46 Hz               |
| Re:                 | 5.6 ohm             |
| Qes:                | 0.42                |
| Qms:                | 1.56                |
| Qts:                | 0.33                |
| Vas:                | 69.1 liters         |
| Sd:                 | 531 cm <sup>2</sup> |
| Sensitivity:        | 95.78 dB            |
| Mms:                | 66.8 grams          |
| Bl:                 | 16                  |
| Le:                 | 0.16 mH             |

| Design details        |          |
|-----------------------|----------|
| Surround Material:    | fabric   |
| Cone material:        | Paper CF |
| Spider:               | Nomex    |
| Plate thickness:      | 31 mm    |
| Overall diameter:     | 320 mm   |
| Bolt circle diameter: | 299 mm   |
| Baffle cutout dia.:   | 281 mm   |
| Mounting holes:       | 8        |
| Depth:                | 172.5 mm |
| Net weight:           | 5.1 kg   |

#### Ordering codes:

**DR-12-017-8R-B2-C0001**

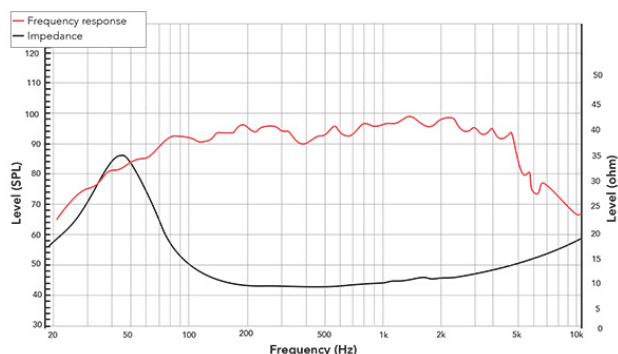
Legacy code: 121XR8-352

#### Recone kits:

**RC121XR8-352**

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

