



Code: 18XRX4-304B

Woofer/XR Woofer/18inch/Neo/Paper/1200W/4ohm

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, optimized surround

QUICK SPECS

Impedance
4 Ω

Program Power
2400 W

Sensitivity
92.07 dB

Fs
21.00 Hz

Magnet
Neodymium

Voice Coil
101.6 mm

 2D Drawing

 3D Model (STEP)

Design Notes

The 18XR is a truly groundbreaking subwoofer. REDCATT team has spent countless hours creating something outstanding. Where the conventional sub-woofers stop performing due to the design limitations, the XR series just starts and shines. With huge excursion, high BL, newly designed suspension system, 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 52mm 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 two, uncommonly large, spiders, spaced apart with spacer, hot-pressed tinsel wires onto the top spider, reinforced cone. The suspension is designed for large excursions. Large lightweight surround sports resonant control features that we fully FEM designed and

Specifications

GENERAL SPECS

Nominal Diameter	18"
Rated Impedance	4 Ohm
Magnet	Neodymium
Basket Material	Aluminum

VOICE COIL

Diameter	101.6 mm
Winding Wire	Copper
Former	Glass Fiber
Winding Height	22 mm

POWER HANDLING

AES Power	1200 W
Continuous Power	2400 W
Peak Power	4800 W

T/S PARAMETERS

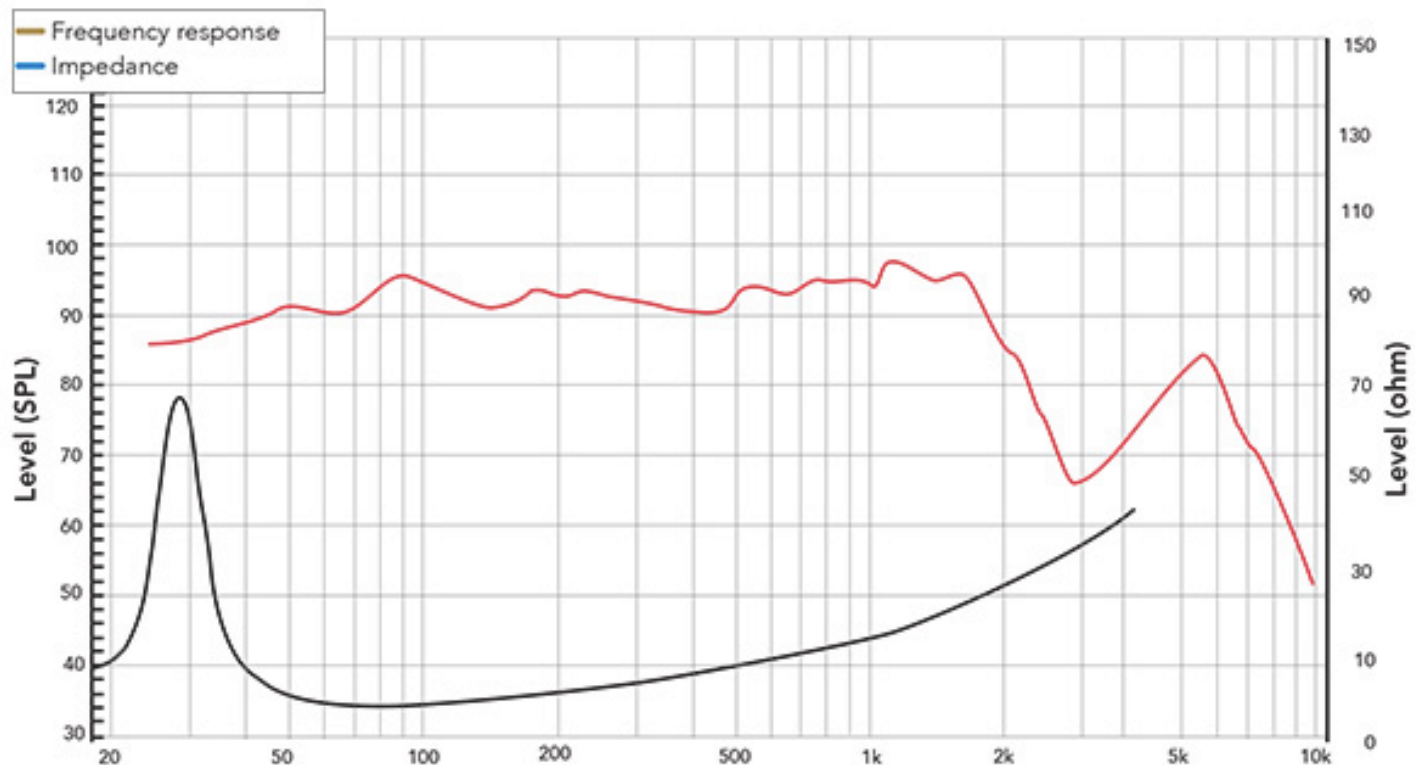
Resonant Frequency (Fs)	21.00 Hz
Re	3.30 Ω
Qes	0.360
Qms	17.00
Qts	0.350
Vas	300.00 liters
Sd	1256.60 cm ²
Mms	402.00 grams
Rms	3.12
Cms	0.1400
Bl	22.20 Tm
Le	0.540 mH
Sensitivity	92.07 dB

Cone/Dome Material	Paper CF
Spider	Nomex
T-Plate	56 mm
Xmax (peak)	17 mm
Xmech	36 mm
Overall Diameter	467.60 mm
Bolt Circle Diameter	442.00 mm
Baffle Cutout Dia.	422.00 mm
Mounting Holes	8
Depth (flange to rear)	257.20 mm
Net Weight	14.70 kg

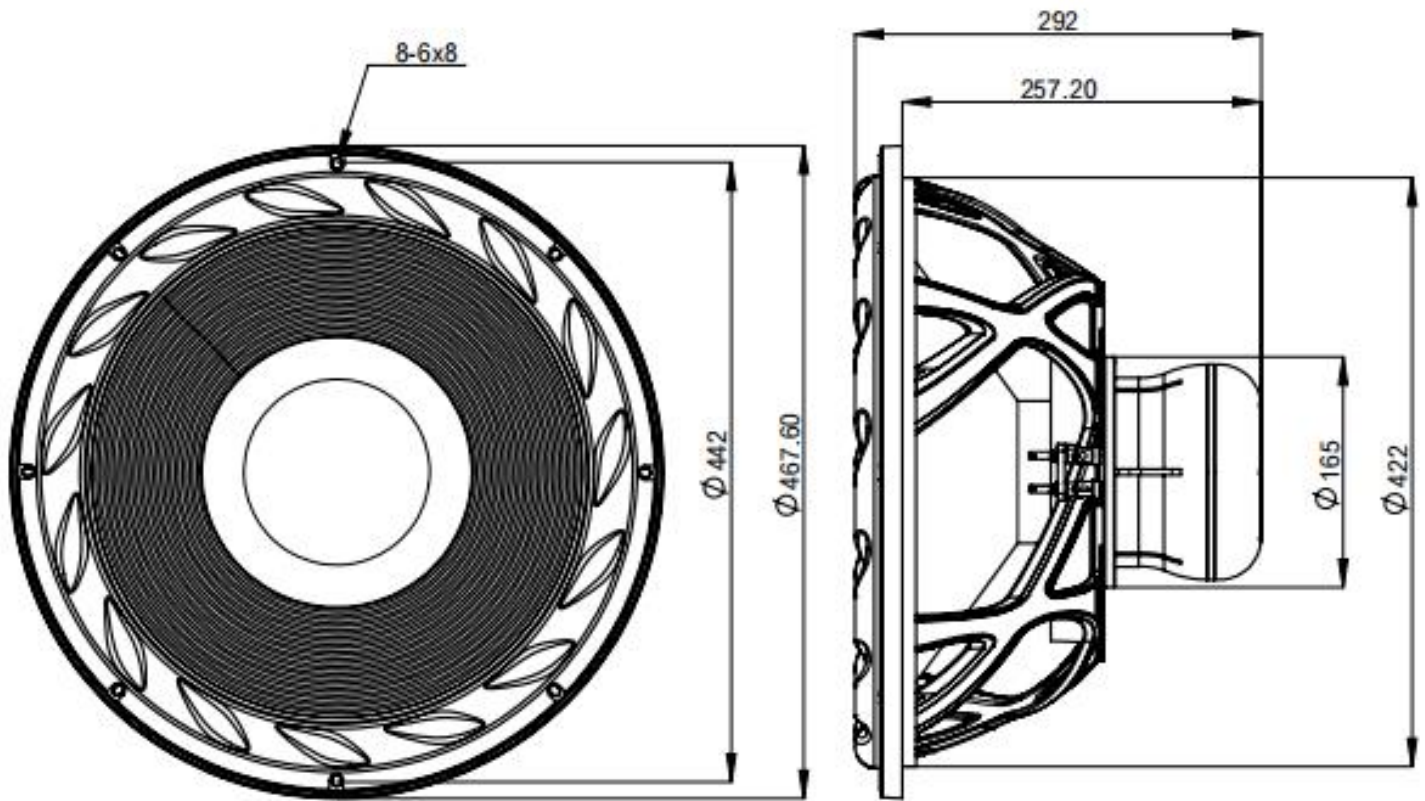
DOWNLOADS

 2D Drawing (PDF)  3D Model (STEP)

Frequency Response & Impedance



2D Drawing



Enclosure Recommendations

Recommended enclosure alignments (bass reflex):

- 235 liters tuned to 24 Hz: high output, strong mid-bass, reduced excursion; -3 dB approx. 22 Hz, HP filter 25 Hz
- 275 liters tuned to 21 Hz: balanced response, general-purpose (recommended); -3 dB approx. 19 Hz, HP filter 22 Hz
- 275 liters tuned to 20 Hz: extended low-frequency, requires HP filter protection; -3 dB approx. 17 Hz, HP filter 20 Hz

Frequently Asked Questions

What enclosure is recommended for the 18XR?



What applications is the 18XR suited for?



What are the power and sensitivity specs of the 18XR?



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