



**MOTION XT**<sup>®</sup>  
by **MARTIN LOGAN**<sup>®</sup>

# F100

High-Performance  
Folded Motion  
**Floorstanding  
Speaker**



**Fragment. The most affordable floor speaker in our flagship Motion XT Series, the XT F100 upgrades all drivers and adds a 3rd woofer.**

For the next generation of our Motion Series, we wanted to do something extraordinary. Tired of the "status quo," we went back to the drawing board, tasked with reinventing the legend of Motion Series. We came up with all-new audio technologies, a bold design, and modern finish options. We changed everything, leaving nothing on the table, to bring you our best Motion Series ever.

Experience exceptional sound quality with MartinLogan's Gen2 Folded Motion XT Tweeter featuring Folded Motion Waveguide technology seamlessly integrate into an elegant front baffle design. The Nomex<sup>®</sup>-Reinforced Kevlar<sup>®</sup> midrange offers improved resonance reduction and clarity, while the triple 6.5" aluminum woofers provide powerful and dynamic bass. The Motion<sup>®</sup> XT F100 is sure to impress in any audio setup.

High-Performance Folded Motion **Floorstanding Speaker**



## F100

### Application

Floorstanding

### Frequency Response

31 Hz - 25 kHz  $\pm$  3 dB

### Dispersion

45° (vertical)  $\times$  90° (horizontal)

### Sensitivity

92 dB

### Impedance

4 ohms

### Crossover Frequency

280 Hz, 2600 Hz (3-way)

### High Frequency Driver

1.25"  $\times$  2.4" (3.2cm  $\times$  6.1cm) Gen2 Obsidian Folded Motion® XT Tweeter with 12.4 in<sup>2</sup> (79.8 cm<sup>2</sup>) diaphragm.

### Mid Frequency Driver

6.5" (16.5cm) Nomex Reinforced Kevlar® cone with cast aluminum basket. Nonresonant sealed chamber format. Unibody cone construction.

### Low Frequency Drivers

3x 6.5" (16.5cm) aluminum cones with cast aluminum baskets. Non-resonant asymmetrical chamber format. Unibody cone construction.

### Cabinet

Bottom Ported

### Recommended Amp Power

20 - 450 watts

### Binding Post Inputs

Custom bi-amp/bi-wire capable  
5-way binding posts

### Weight

76lbs / 34.5kg

### Dimensions (HxWxD)\*

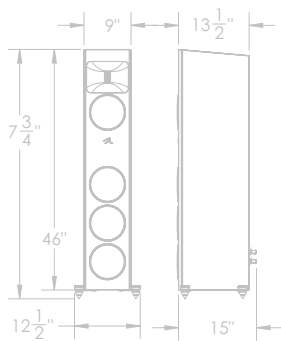
47-3/4"  $\times$  12-1/2"  $\times$  15"  
121.3cm  $\times$  31.75cm  $\times$  38.1cm

### Finish

Gloss Black, Walnut, and Satin White

\*Product dimensions include feet, binding posts, and grilles.

Specifications are subject to change without notice.



## Controlled Dispersion

Any time your speaker reflects sound off of a surface in your room, it changes the sound in some way. One of the most harmful changes that occurs is the result of the first reflection point, or the first point at which sound begins to bounce off the walls or other surfaces in the room. Controlled Dispersion minimizes these sound degrading early reflections by controlling the spread of sound from the tweeter into the room, enhancing your listening experience with greater clarity, and expanding placement options in any room.

## Gen2 Obsidian Folded Motion Tweeter XT

The Gen2 Obsidian FMT XT Tweeter has been upgraded with a larger motor to provide higher output and lower distortion. The FMT XT offers the most effortless and detailed sound in the Motion range with a 40% increase in surface area over our signature FMT. Outside of our legendary Electrostatic speakers, these new tweeters provide our cleanest, most detailed and accurate high frequency reproduction to date.

## Folded Motion Waveguide

After an extensive evaluation of nearly 50 design options, the Folded Motion Waveguide profile was meticulously chosen to harmoniously align with the dispersion of the midrange drivers, resulting in enhanced output. The waveguide guarantees consistent sound quality regardless of the listener's position and minimizes unwanted room reflections. Proper waveguide design is crucial as it helps control the sound's dispersion pattern, ensuring that the sound is evenly distributed across the listening area, resulting in optimal sound quality.

## Nomex-Reinforced Kevlar® Midrange

The Nomex-Reinforced Kevlar® Midrange in the Motion® XT Series is a strong, yet lightweight cone, that absorbs undesirable resonance and ringing for unparalleled midrange clarity. When combined with the Gen2 Obsidian FMT XT, the clarity of vocals, dialogue and instrumental accuracy is unmatched at any volume. The seamless integration with Motion XT CI products makes creating custom solutions effortless.

## Twin Cannon Bass Ports

Rear ported tower speaker designs need 'room to breathe,' which can conflict with a room's layout or decor as they require ample spacing from a wall or cabinet. The bottom-mounted Twin Cannon bass ports on the Motion® XT series tower models provide deeper, cleaner, and more powerful bass across a broader range of placement options.

## Secure-Lock Grilles

Besides looking modern and elegant, our new Secure Lock grille design uses clever, stealth mounting tabs to securely hold the grilles in place while also allowing you to customize the appearance of your speaker. Instantly create a unique look to suit your preference at any time by choosing which grilles to leave on or off, or even rotating the grilles to display the grain of the fabric how you prefer.

## Floor Bounce Compensation

Bringing studio reference sound to reality with precision woofer placement and crossover tuning, MartinLogan engineers have designed our Motion® XT Series tower models to produce a more natural and full sound by taking advantage of a constant found in all listening rooms; the presence of a floor. By incorporating the effects the floor has on reflected sound into our tuning process, F200 is able to achieve a more consistent, natural, and accurate sound than conventional designs.

## McCracken-Vojtko Crossover

Named after our acoustic engineers, this new custom crossover perfectly melds the bespoke driver platforms. Carefully designed using proprietary measurement and simulation software, and fine-tuned and evaluated using double-blind listening tests, the McCracken-Vojtko crossover is the maestro that weaves all the elements into a cohesive whole.