

# HIPPO XL

## SUBWOOFERS

### General Features

- \* Heavy Duty, Rugged Industrial Textured Cast Aluminum Basket.
- \* High Energy Double Stack Strontium Magnet Structure.
- \* Dual Impedance Black Anodized Voice Coil Former with Kevlar Spunlace.
- \* Kevlar Fiber Reinforced Non-Pressed Paper Cone with Industrial Textured Finish.
- \* Red Stitched Edge to the Cone for Added Strength.
- \* Over Sized Mirror Image Dual Poly / Nomex Spiders.
- \* Black Anodized One Piece Pole-Plate for Added Motor Force.
- \* Heavy Duty Direct Input Wires Connection to Voice Coils.
- \* Reinforced Fiberglass Woven Dustcap for High Power Applications.
- \* Custom Tooled Rubber Gasket and Magnet Boot.

### Specifications

| Mechanical        | HIPPO XL 64 |          | HIPPO XL 84 |          | HIPPO XL 124 |          | HIPPO XL 122 |          | HIPPO XL 122R |          | HIPPO XL 152 |          | HIPPO XL 152R |          |        |
|-------------------|-------------|----------|-------------|----------|--------------|----------|--------------|----------|---------------|----------|--------------|----------|---------------|----------|--------|
| Fs                | Hz          | 57.393   |             | 49.96    |              | 45.320   |              | 46.203   |               | 44.712   |              | 43.089   |               | 41.068   |        |
| Qms               |             | 6.748    |             | 5.687    |              | 5.468    |              | 7.983    |               | 5.968    |              | 4.437    |               | 5.150    |        |
| Vas               | liters      | 1.665    |             | 3.255    |              | 14.621   |              | 14.202   |               | 14.218   |              | 30.194   |               | 31.246   |        |
| Cms               | um/N        | 60.75    |             | 56.702   |              | 30.860   |              | 35.48    |               | 35.502   |              | 28.373   |               | 27.468   |        |
| Mms               | g           | 126.578  |             | 178.977  |              | 332.165  |              | 334.435  |               | 356.707  |              | 480.854  |               | 506.721  |        |
| Rms               | Kg/s        | 3.4      |             | 5.5      |              | 17.2     |              | 17.5     |               | 18.5     |              | 21.8     |               | 23.5     |        |
| Watts Rms         | W           | 300      |             | 700      |              | 2000     |              | 2000     |               | 3000     |              | 2000     |               | 3000     |        |
| Peak Power        | W           | 600      |             | 1400     |              | 4000     |              | 4000     |               | 6000     |              | 4000     |               | 6000     |        |
| Xmax              | mm          | 10       |             | 14       |              | 17.5     |              | 17.5     |               | 22       |              | 17.5     |               | 22       |        |
| Xmech             | mm          | 34       |             | 35       |              | 45       |              | 45       |               | 35       |              | 45       |               | 356      |        |
| Dia.              | mm          | 135      |             | 165      |              | 260      |              | 260      |               | 260      |              | 320      |               | 320      |        |
| Sd                | sq.m        | 0.0143   |             | 0.0214   |              | 0.053    |              | 0.053    |               | 0.053    |              | 0.0804   |               | 0.0804   |        |
| Vd                | liters      | 0.218    |             | 0.402    |              | 0.795    |              | 0.795    |               | 1.012    |              | 1.206    |               | 1.412    |        |
| Electrical        |             | Parallel | Series      | Parallel | Series       | Parallel | Series       | Parallel | Series        | Parallel | Series       | Parallel | Series        | Parallel | Series |
| Qes               |             | 0.831    | 0.870       | 0.716    | 0.758        | 0.587    | 0.506        | 0.477    | 0.446         | 0.424    | 0.388        | 0.428    | 0.749         | 0.417    | 0.567  |
| Re                | Ohms        | 1.6      | 6.4         | 1.6      | 6.4          | 1.6      | 6.4          | 0.9      | 3.6           | 0.9      | 3.6          | 0.9      | 3.6           | 0.9      | 3.6    |
| Le                | mH          | 1.771    | 5.581       | 3.042    | 0.931        | 2.368    | 7.245        | 1.683    | 6.123         | 5.572    | 9.876        | 1.741    | 7.246         | 5.460    | 8.460  |
| BL                | Tm          | 9.375    | 16.781      | 11.206   | 21.786       | 14.571   | 27.223       | 14.958   | 29.939        | 14.693   | 30.493       | 17.423   | 26.368        | 15.608   | 31.563 |
| Pe                | Watts       | 300      | 300         | 700      | 700          | 2000     | 2000         | 2000     | 2000          | 3000     | 3000         | 2000     | 2000          | 3000     | 3000   |
| Electromechanical |             | Parallel | Series      | Parallel | Series       | Parallel | Series       | Parallel | Series        | Parallel | Series       | Parallel | Series        | Parallel | Series |
| Qts               |             | 0.74     | 0.767       | 0.636    | 0.669        | 0.481    | 0.464        | 0.450    | 0.450         | 0.397    | 0.364        | 0.391    | 0.672         | 0.393    | 0.398  |
| no                | %           | 0.037    | 0.042       | 0.055    | 0.052        | 0.265    | 0.226        | 0.284    | 0.284         | 0.335    | 0.317        | 0.545    | 0.312         | 0.331    | 0.365  |
| 1-W-SPL           | dB          | 82.1     | 82.3        | 82.6     | 82.8         | 86.3     | 86.4         | 86.6     | 86.8          | 86.1     | 86.3         | 88.6     | 88.8          | 86.8     | 82.0   |
| 2.8V SPL          | dB          | 82.8     | 82.9        | 83.1     | 83.3         | 87.6     | 87.5         | 95.33    | 92.30         | 86.7     | 86.9         | 96.5     | 93.1          | 87.8     | 88.1   |

**600**  
PEAK WATTS

**1400**  
PEAK WATTS

**2000**  
PEAK WATTS

**4000**  
PEAK WATTS

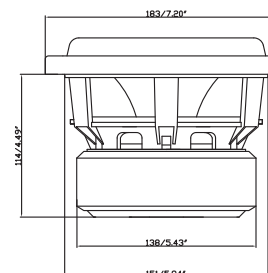
**6000**  
PEAK WATTS



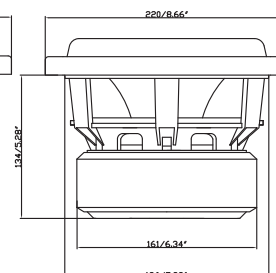
**RoHS** (E8)

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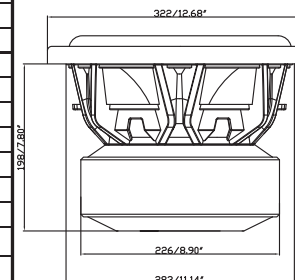
HIPPO XL 64



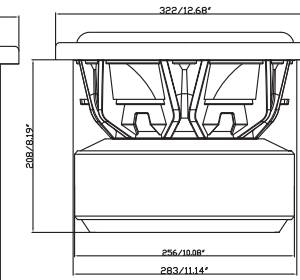
HIPPO XL 84



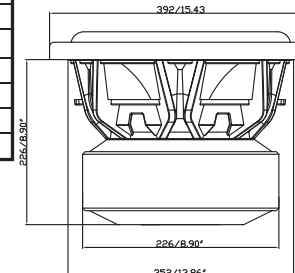
HIPPO XL 122/HIPPO XL 124



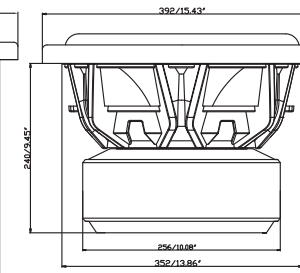
HIPPO XL 122R



HIPPO XL 152



HIPPO XL 152R



# HIPPO XL

For More Customized Box Volume Specifications  
Please visit [www.massiveaudio.com](http://www.massiveaudio.com)

|                           | HIPPO XL 64 | HIPPO XL 84 | HIPPO XL 124 | HIPPO XL 122 | HIPPO XL 122R | HIPPO XL 152 | HIPPO XL 152R |
|---------------------------|-------------|-------------|--------------|--------------|---------------|--------------|---------------|
| Mounting Depth (A)        | 4.49"       | 5.28"       | 7.80"        | 7.80"        | 8.19"         | 8.90"        | 9.45"         |
| Mounting Diameter (B)     | 7.20"       | 8.66"       | 12.68"       | 12.68"       | 12.68"        | 15.43"       | 15.43"        |
| Mounting cut Diameter (C) | 5.94"       | 7.32"       | 11.14"       | 11.14"       | 11.14"        | 13.86"       | 13.86"        |
| Net Weight (lb)           | 10.36       | 15.43       | 44.09        | 44.09        | 65.03         | 46.29        | 68.86         |
| Displacement (ft3)        | 0.027       | 0.045       | 0.095        | 0.095        | 0.103         | 0.175        | 0.188         |

|                                       | HIPPO XL 64  |                | HIPPO XL 84  |                | HIPPO XL 124 |                | HIPPO XL 122 |                | HIPPO XL 122R |                | HIPPO XL 152 |                | HIPPO XL 152R |                |
|---------------------------------------|--------------|----------------|--------------|----------------|--------------|----------------|--------------|----------------|---------------|----------------|--------------|----------------|---------------|----------------|
| <b>Single Sealed</b>                  | <b>Small</b> | <b>Optimum</b> | <b>Small</b> | <b>Optimum</b> | <b>Small</b> | <b>Optimum</b> | <b>Small</b> | <b>Optimum</b> | <b>Small</b>  | <b>Optimum</b> | <b>Small</b> | <b>Optimum</b> | <b>Small</b>  | <b>Optimum</b> |
| Volume (cub. ft)                      | 0.4          | 0.9            | 0.6          | 1.1            | 2            | 2.5            | 2            | 2.5            | 2.2           | 2.7            | 2.8          | 3.4            | 2.3           | 3.3            |
| Internal (width x Height x Depth) in. | 7x8x7        | 9x10x9         | 9x10x9       | 11x12x11       | 17x15x14     | 20x15x14       | 17x15x14     | 20x15x14       | 18x15x14      | 18x16x16       | 20x16x15     | 20x18x15       | 16X15X16      | 18X18X18       |
| F3 Hz                                 | 81           | 81             | 75           | 70             | 72           | 68             | 72           | 68             | 70            | 65             | 64           | 63             | 62            | 61             |
| Qtc                                   | 0.7          | 0.72           | 0.63         | 0.65           | 0.45         | 0.48           | 0.45         | 0.48           | 0.39          | 0.41           | 0.45         | 0.45           | 0.40          | 0.41           |
| <b>Single Ported</b>                  | <b>Small</b> | <b>Optimum</b> | <b>Small</b> | <b>Optimum</b> | <b>Small</b> | <b>Optimum</b> | <b>Small</b> | <b>Optimum</b> | <b>Small</b>  | <b>Optimum</b> | <b>Small</b> | <b>Optimum</b> | <b>Small</b>  | <b>Optimum</b> |
| Volume (cub. ft)                      | 0.6          | 1.0            | 0.7          | 1.2            | 2.7          | 3.4            | 2.7          | 3.4            | 2.9           | 3.4            | 3.4          | 4.2            | 3.7           | 4.9            |
| Internal (width x Height x Depth) in. | 8x10x8       | 10x12x10       | 10x12x10     | 11x12x11       | 20x16x15     | 22x18x15       | 20x16x15     | 22x18x15       | 20x16x16      | 22x18x15       | 22x18x15     | 24x18x17       | 18X18X22      | 20X18X24       |
| Fb Hz                                 | 54           | 52             | 46           | 44             | 43           | 43             | 43           | 43             | 42            | 42             | 40           | 44             | 40            | 40             |
| F3                                    | 50           | 48             | 44           | 42             | 38.5         | 36             | 38.5         | 36             | 37            | 35             | 35           | 37             | 35            | 35             |
| Port round (D x L)                    | 3x5          | 3x7            | 3x6          | 3x8            | 4X10         | 24X12          | 4X10         | 24X12          | 6x12          | 24x14          | 24X10        | 34X10          | 24X12         | 34X12          |
| Port Area sq. in.                     | 5.8          | 6.5            | 6.2          | 7.0            | 12.56        | 25.12          | 12.56        | 25.12          | 13.5          | 26.5           | 25.12        | 37.68          | 26.72         | 39.12          |
| <b>Dual Ported</b>                    | <b>Small</b> | <b>Optimum</b> | <b>Small</b> | <b>Optimum</b> | <b>Small</b> | <b>Optimum</b> | <b>Small</b> | <b>Optimum</b> | <b>Small</b>  | <b>Optimum</b> | <b>Small</b> | <b>Optimum</b> | <b>Small</b>  | <b>Optimum</b> |
| Volume (cub. ft)                      | 1.6          | 2.3            | 1.8          | 2.5            | 5.2          | 6.0            | 5.2          | 6.0            | 5.5           | 6.5            | 6.6          | 8.2            | 7.8           | 9.5            |
| Internal (width x Height x Depth) in. | 8x18x8       | 10x20x10       | 10x22x10     | 11x23x11       | 36x16x15     | 38x16x15       | 36x16x15     | 38x16x15       | 36x16x16      | 38x18x16       | 40x18x16     | 40x20x18       | 36X18X22      | 40X18X24       |
| Port (1) Sq.area in.                  | 14           | 20             | 16           | 22             | 43.75        | 48.85          | 43.75        | 48.85          | 44            | 49             | 87           | 96             | 88            | 98             |
| Port Length                           | 8            | 9              | 9            | 10             | 14           | 14             | 14           | 14             | 14            | 14             | 14           | 14             | 16            | 16             |
| F3 Hz                                 | 49           | 47             | 42           | 40             | 36           | 34             | 36           | 34             | 36            | 34             | 34           | 33             | 34            | 34             |

The port may have to be placed along the back wall facing the side. Place a brace between the subs about 4 inches wide on the inside.

Make sure that the end of the port "inside the box" is at least the same distance away from the back wall as the port diameter. If port is 4" round = 4.5" from wall

## Attention:

\*Box sizes account for driver and port displacement

\*For higher SPL shortening the port length 3 in. will rise frequency +/- 5 Hz

\*Box specifications are internal. for external dimensions add the width of the box material to these dimensions.

\*A square port (slot) is preferred in high power applications for less vent noise.

\*Port area = width x height

\*For dual speaker, double the volume and the number of ports but keep the same length.

\*If possible use a divided box.

\*If a common chamber box is to be used, internal bracing is highly recommended

\*Please contact Massive Audio for custom applications.

