The goal of every Motus driver design is linear frequency response, low distortion and superb tonality.

After hundreds of hours of refinement each driver allows for the application of a minimal crossover to achieve your desired target response.

Every Motus driver goes through a rigorous four stage quality control process to ensure that the driver in your loudspeaker represents the best Motus has to offer.

The UH130PW1 is a state of the art underhung mid bass driver. It is equally at home as the woofer in a two way design or the midrange in a multi-way speaker.

- Underhung voice coil
- Linear frequency response
- Ultra low distortion
- FEA Optimized motor
- Pressed paper cone
- Vented pole piece
- Dual shorting rings
- Precision machined undercut pole piece
- Aerodynamic basket design
- Acoustically transparent spider
- Vented voice coil
- Symmetrical lead wire placement
- Gold plated terminals
- Die cast aluminum basket

### UH130PW1 - Parameters

<table>
<thead>
<tr>
<th>Thiele / Small Parameters</th>
<th>Electrical Parameters</th>
<th>Magnet and Voice Coil</th>
<th>Dimensions and Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resonance Frequency FS</td>
<td>DC Resistance</td>
<td>Voice Coil Diameter</td>
<td></td>
</tr>
<tr>
<td>Mechanical Q QMS</td>
<td>DCR 5.54 ohms</td>
<td>44.20 mm</td>
<td></td>
</tr>
<tr>
<td>Electrical Q QES .40</td>
<td>Nominal Impedance NOM</td>
<td>Voice Coil Winding Height</td>
<td>8.00 mm</td>
</tr>
<tr>
<td>Total Q Factor QTS .38</td>
<td>Voice Coil Inductance LE .38 mH</td>
<td>Voice Coil Layers 4</td>
<td></td>
</tr>
<tr>
<td>Force Factor BL 7.38 Tm</td>
<td></td>
<td>Gap Height 18.00 mm</td>
<td></td>
</tr>
<tr>
<td>Moving Mass MMS 15.39 grams</td>
<td>Power Handling</td>
<td>Linear Excursion ± 5.00 mm</td>
<td></td>
</tr>
<tr>
<td>Suspension Compliance CMS 990 mm/N</td>
<td>Long Term Power Handling* 90 watts</td>
<td>Max Mechanical Excursion ± 10.50 mm</td>
<td></td>
</tr>
<tr>
<td>Radiating Diameter Dia. 110.0 mm</td>
<td>Short Term Power Handling* 150 watts</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Radiating Area SD 95.03 sq. cm</td>
<td>Enclosure Volume**</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Equivalent Volume VAS 12.71 liters</td>
<td>Sealed - Q.707 5.13 L (.18 cu ft) 76.02 Hz -3dB</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sensitivity (1W / 1M) SPL 85.1 dB</td>
<td>Vented - QB3 9.64 L (.34 cu ft) 44.54 Hz -3dB</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sensitivity (2.83V / 1M) SPL 86.7 dB</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*IEC 268-5
**Estimated volume, no added resistance
Thiele / Small parameters measured after 24 hours break in
All specifications are subject to change without notice

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Frequency Response (1/12 Octave Smoothing)

- **Black Curve**: On Axis SPL
- **Green Curve**: 30 deg off axis
- **Blue Curve**: 60 deg off axis

**Test Conditions**
- **Level**: 2.83 volts
- **Mic Distance**: 1 meter
- **Smoothing**: 1/12 Octave
- **Boundary**: IEC Baffle

Harmonic Distortion (1/12 Octave Smoothing)

- **Black Curve**: On Axis
- **Solid Curve**: 2nd Harmonic
- **Dash Curve**: 3rd Harmonic

**Test Conditions**
- **Level**: 2.83 volts
- **Mic Distance**: 1 meter
- **Smoothing**: 1/12 Octave
- **Boundary**: IEC Baffle

Impedance

- **Black Curve**: Impedance

**Test Conditions**
- **Boundary**: Free Air