The D.A.S. WR-6412 is a two-way vented loudspeaker system for applications covering speech reinforcement, program reproduction and live music productions specially designed to be used outdoors due to its specific treatments against dust, water and humidity.

The Low Mid range utilizes a high efficiency 12" low frequency speaker with 3" voice coil. The High end makes use of a 1.5" exit compression driver with 3" titanium diaphragm coupled to a rotatable 60º x 40º constant directivity horn.

The enclosure is manufactured from Birch Plywood and it can be ordered in two different special finishings; CX consists of Polyurea paint which is intended for covered areas and DX which consists of a fiberglass finish intended for non covered areas (system directly exposed to weather conditions). The trapezoidal enclosure has 15º side angles for easier rigging.

The unit has a robust stainless steel grille design specially covered with foam and a hydrophobic cloth to protect the loudspeaker components. The covering is resistant to wear and tear and provides protection from dust and dirt as well.

14 integrated rigging points that accept 10M forged steel eyebolts make suspension in either the horizontal or vertical positions safe and simple. The D.A.S. WR-6412 can be also installed using its specific stainless steel U-bracket AXU-WR6412.

The cabinet is provided with an undetermined cable for connection.

Intended for Auditoriums, Theaters, Worship Centres, Sports Facilities, Live Clubs, Themed Entertainment Venues or Public Buildings and Schools.

Technical Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Nominal Power</th>
<th>On-axis Frequency Range (-10dB)</th>
<th>Nominal Impedance</th>
<th>Minimum Impedance</th>
<th>Measured Maximum SPL at 4m</th>
<th>Horizontal Coverage Angles (-6dB)</th>
<th>Vertical Coverage Angles (-6dB)</th>
<th>Enclosure Material</th>
<th>Color/Finish</th>
<th>Transducers/Replacement Parts</th>
</tr>
</thead>
<tbody>
<tr>
<td>RMS (Average) Power Handling*</td>
<td>400 W</td>
<td>60 Hz - 20 kHz</td>
<td>8 Ohms</td>
<td>8,2 Ohms @ 135 Hz</td>
<td>106,7 dB</td>
<td>500Hz, 135º, 1kHz, 92º.</td>
<td>500Hz, 144º, 1kHz, 122º.</td>
<td>Birch Plywood</td>
<td>CX, Black or White/Polyurea</td>
<td>LF: 12AV/GM 12P</td>
</tr>
<tr>
<td>Program Power Handling*</td>
<td>800 W</td>
<td>60 Hz - 20 kHz</td>
<td>8 Ohms</td>
<td>8,2 Ohms @ 135 Hz</td>
<td>106,7 dB</td>
<td>2kHz, 70º, 4kHz, 65º.</td>
<td>2kHz, 57º, 4kHz, 42º.</td>
<td>DX, Military Grey or Black/Fiberglass</td>
<td>LF: 12AV/GM 12P</td>
<td></td>
</tr>
<tr>
<td>Peak Power Handling*</td>
<td>1600 W</td>
<td>60 Hz - 20 kHz</td>
<td>8 Ohms</td>
<td>8,2 Ohms @ 135 Hz</td>
<td>106,7 dB</td>
<td>4kHz, 65º.</td>
<td>4kHz, 42º.</td>
<td>Stainless steel</td>
<td>Stainless steel</td>
<td>HF: M-75/GM M-75</td>
</tr>
</tbody>
</table>

*Nominal Power based on a 100h test using a 6dB crest factor pink noise signal filtered according to the IEC 60268-1:1985 norm and band-pass filtered with Butterworth 24dB/Oct filters from 89Hz to 11,2kHz.

Sensitivity and Max SPL measured using a 6dB crest factor pink noise, averaged from 100Hz to 10kHz in 1/3 Octave bands.

Coverage measured from 500Hz to 4kHz in Octave bands.

Obtained by integration over a period of at least 30s.

EN54 CERTIFIED

Models and versions;
WR-6412CX, covered exposure, black
WR-6412DX, direct exposure, black
WR-6412CXW, covered exposure, white
WR-6412DXG, direct exposure, grey

*Based on a 2 hour test using a 6dB crest factor pink noise signal.
Conventionally, 3dB higher than RMS measure, although this already utilizes a program signal.
Corresponds to the signal crests for the test described in *.

EN54-24 Based Technical Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Nominal Power</th>
<th>On-axis Frequency Range (-10dB)</th>
<th>Nominal Impedance</th>
<th>Minimum Impedance</th>
<th>Measured Maximum SPL at 4m</th>
<th>Horizontal Coverage Angles (-6dB)</th>
<th>Vertical Coverage Angles (-6dB)</th>
<th>Enclosure Material</th>
<th>Color/Finish</th>
<th>Transducers/Replacement Parts</th>
</tr>
</thead>
<tbody>
<tr>
<td>RMS (Average) Power Handling*</td>
<td>500 W</td>
<td>60 Hz - 20 kHz</td>
<td>8 Ohms</td>
<td>8,2 Ohms @ 135 Hz</td>
<td>106,7 dB</td>
<td>500Hz, 135º, 1kHz, 92º.</td>
<td>500Hz, 144º, 1kHz, 122º.</td>
<td>Birch Plywood</td>
<td>CX, Black or White/Polyurea</td>
<td>LF: 12AV/GM 12P</td>
</tr>
<tr>
<td>Program Power Handling*</td>
<td>800 W</td>
<td>60 Hz - 20 kHz</td>
<td>8 Ohms</td>
<td>8,2 Ohms @ 135 Hz</td>
<td>106,7 dB</td>
<td>2kHz, 70º, 4kHz, 65º.</td>
<td>2kHz, 57º, 4kHz, 42º.</td>
<td>DX, Military Grey or Black/Fiberglass</td>
<td>LF: 12AV/GM 12P</td>
<td></td>
</tr>
<tr>
<td>Peak Power Handling*</td>
<td>1600 W</td>
<td>60 Hz - 20 kHz</td>
<td>8 Ohms</td>
<td>8,2 Ohms @ 135 Hz</td>
<td>106,7 dB</td>
<td>4kHz, 65º.</td>
<td>4kHz, 42º.</td>
<td>Stainless steel</td>
<td>Stainless steel</td>
<td>HF: M-75/GM M-75</td>
</tr>
</tbody>
</table>

*Nominal Power based on a 100h test using a 6dB crest factor pink noise signal filtered according to the IEC 60268-1:1985 norm and band-pass filtered with Butterworth 24dB/Oct filters from 89Hz to 11,2kHz.

Sensitivity and Max SPL measured using a 6dB crest factor pink noise, averaged from 100Hz to 10kHz in 1/3 Octave bands.

Coverage measured from 500Hz to 4kHz in Octave bands.

Obtained by integration over a period of at least 30s.
Frequency Response

Shows the frequency response at 4 m of a unit radiating to an anechoic environment (4p) and driven by a 1 W (2,83 V) swept sine signal, and impedance curve. For better detail, only light smoothing (1/12th Octave) has been used.

Distortion

Shows the Second Harmonic Distortion (grey) and Third Harmonic Distortion (dotted) curves (rised 20dB for clarity) for a unit driven at 10% of its RMS Power Handle.

Directivity

Shows normalized horizontal isobar plot.

Directivity

Shows normalized vertical isobar plot.

Polar Response

1/3 octave band horizontal (left) and vertical (right) polars for the indicated frequencies. Full scale is 30dB, 6dB per division.

NOTES: Frequency response measured at 4m (13,12ft). For better detail, only light smoothing (1/12th octave) has been used. Polars were acquired by placing the unit on a computer controlled turntable inside a 300 m³ (10594 ft³) anechoic chamber. Measurement distance is 4m (13,12ft).

Reference Axis: Axis is on the center of the grille surface and perpendicular to the grille surface.

Reference plane: Plane is on the grille surface and perpendicular to the reference axis.

Horizontal plane: Plane is containing the reference axis and perpendicular to the reference plane.