**In-Hull Transducers**

- **P79**
  - **600 W (Baseline Model)**
    - Adjustable from 2° to 22° of deadrise
    - Epoxies to aluminum hulls under 3.8 mm (0.125”) thick

- **M260**
  - **1 kW, High-Definition Digital Broadband**
    - Broadband Ceramic Technology:
      - Crystal clear image detail and resolution
      - Distinguishes individual fish targets and fish tight to the bottom

- **R111LH**
  - **2,000 Watts RMS, 20 to 30 continuous Watts**
  - **Depth Only**
  - **In-Hull, Plastic Housing**
  - **Operating Frequencies:**
    - LF—38 to 75 kHz
    - HF—130 to 210 kHz
  - **15 m (50’) cable**
  - **Beamwidth (Adjustable):**
    - LF—11° x 17° to 6° x 11°
    - HF—7° to 5°
  - **Boat Size:** 9 m (30’) and up
  - **Optionally available as R299LM, low & medium-frequency (85 to 135 kHz)**

- **R299LH**
  - **2,000 to 3,000 Wats RMS, 30 to 60 continuous Watts**
  - **Depth Only**
  - **In-Hull, Epoxy Housing**
  - **Operating Frequencies:**
    - LF—28 to 60 kHz
    - HF—130 to 210 kHz
  - **15 m (50’) cable**
  - **Beamwidth (Adjustable):**
    - LF—11° x 17° to 6° x 11°
    - HF—7° to 5°
  - **Boat Size:** 9 m (30’) and up
  - **Optionally available as R299LM, low & medium-frequency (85 to 135 kHz)**

*TThe power rating is for conventional tone burst operation at 1% duty cycle. For longer duty cycle, Chirp, and FM operation and power rating for Broadband Transducers, contact Airmar.*

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**In-Hull Transducers**

- **Designed for all types of solid fiberglass hulled boats**
- **Depth Only**
- **Mounts in a tank inside the hull**
- **Non-toxic anti-freeze (propylene glycol) is used to fill the tank**
- **Installation and servicing can be done while the vessel is in the water**
- **No holes to drill through the hull**
- **Great high-speed performance up to 35 knots (40 MPH)**
- **Hull Deadrise Angle:**
  - P79, P89, R199: 0° to 22°
  - M260: 0° to 30°
**50 kHz/200 kHz-A**

<table>
<thead>
<tr>
<th>Number of Elements and Configuration</th>
<th>Beam Width (@-3 dB)</th>
<th>RMS Power (W)</th>
<th>TVR</th>
<th>RVR</th>
<th>FOM</th>
<th>Impedance</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>45° 12°</td>
<td>600 W 600 W</td>
<td>155 dB 164 dB</td>
<td>-174 dB -184 dB</td>
<td>-31 dB -21 dB</td>
<td>200 Ω 375 Ω</td>
</tr>
</tbody>
</table>

**50 kHz-AE | 200 kHz-BH**

<table>
<thead>
<tr>
<th>Number of Elements and Configuration</th>
<th>Beam Width (@-3 dB)</th>
<th>RMS Power (W)</th>
<th>TVR</th>
<th>RVR</th>
<th>FOM</th>
<th>Impedance</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>19° 6°</td>
<td>1 kW 1 kW</td>
<td>162 dB 175 dB</td>
<td>-173 dB -183 dB</td>
<td>-14 dB -10 dB</td>
<td>250 Ω 90 Ω</td>
</tr>
</tbody>
</table>

**Beam Diameter vs Depth**

<table>
<thead>
<tr>
<th>Depth</th>
<th>50 kHz</th>
<th>200 kHz</th>
</tr>
</thead>
<tbody>
<tr>
<td>9 m (30')</td>
<td>8 m (25')</td>
<td>2 m (6')</td>
</tr>
<tr>
<td>30 m (100')</td>
<td>25 m (83')</td>
<td>6 m (21')</td>
</tr>
<tr>
<td>122 m (400')</td>
<td>101 m (331')</td>
<td>26 m (84')</td>
</tr>
<tr>
<td>305 m (1,000')</td>
<td>252 m (828')</td>
<td>64 m (210')</td>
</tr>
</tbody>
</table>

**58-75 kHz | 130-210 kHz**

<table>
<thead>
<tr>
<th>Elements</th>
<th>Pulse Power</th>
<th>Nominal TVR</th>
<th>Nominal RVR</th>
<th>Nominal FOM</th>
<th>Impedance</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2 kW</td>
<td>169 dB</td>
<td>-178 dB</td>
<td>-11 dB</td>
<td>100-250 Ω</td>
</tr>
</tbody>
</table>

**R299**

<table>
<thead>
<tr>
<th>Elements</th>
<th>Pulse Power</th>
<th>Nominal TVR</th>
<th>Nominal RVR</th>
<th>Nominal FOM</th>
<th>Impedance</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>3 kW</td>
<td>170 dB</td>
<td>-176 dB</td>
<td>-6 dB</td>
<td>100-225 Ω</td>
</tr>
</tbody>
</table>

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