



## PURE TONE SIGNALS

### WITH SEPARATE POWER SUPPLIES

**Pharos Marine/Automatic Power pure tone signals, which require separate power supplies, are designed to deliver long, reliable service.**

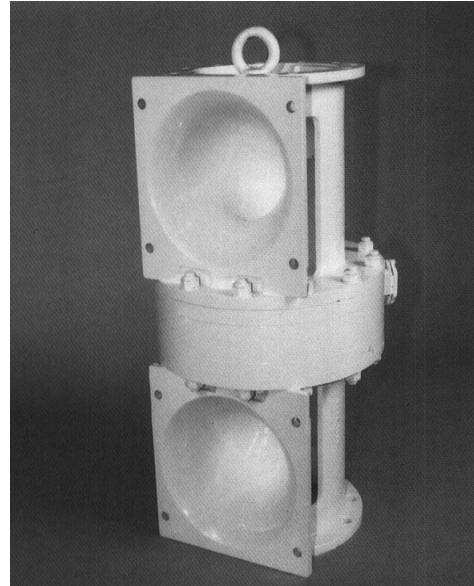
The emitters are constructed of cast steel and aluminium. The steel diaphragms are tuned to the desired acoustic frequency. The coil, fixed in position in the centre section, are designed not to oscillate, this non-movement eliminates the problem of wire flexibility. With each half cycle of the electrical input, the two diaphragms are drawn together, doubling the frequency.

The large emitters (300Hz) feature all steel construction, including both diaphragms. The diaphragm seal the coil from the atmosphere leaving only metal exposed to the marine environment.

The smaller emitters (500Hz) have similar construction except for the end bells: they are cast aluminium. Galvanic corrosion is prevented by placing electrical insulation between individual metal pieces.

The polar graph shows the horizontal sound distribution for the directional signals. The SPL vs. Power graphs show db down from the axis.

The 500HZ and 300Hz signals are the most reliable signals available. Emitter construction allows them to be submerged in seawater without damage.



**Pharos Marine**  **Automatic Power**

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