



The ProSys Immersible Array is a Megasonic transducer that is designed to install into an existing process tank in minutes. The addition of acoustic energy to a processing bath can improve the efficiency and reduce the process time. Products are available that are compatible with solvents, acids, or bases.

Features & Benefits

- Sealed enclosure made with stainless steel, PTFE, Kynar/PVDF, and CPVCC
- Resonators are made with quartz, stainless steel, and sapphire
- Patented crystal-to-resonator bond process
- Patented RF connection to the crystals
- Redundant RTD temperature monitoring of the transducer for improved reliability
- The array is designed to be easily repaired if required
- The crystal-to-resonator bond is acoustically superior to an epoxy bond
- The design and construction are robust and reliable
- The **direct** design provides better uniformity than **indirect** solutions
- 60% lower RF power usage when compared to **indirect** designs

Technical Specifications

- Standard operating frequency: 925 kHz; other frequencies available on request
- Power densities up to 2 Watts/cm²
- Process fluid temperatures to 60°C
- Standard sizes available
- Custom sizes designed and built in weeks
- Special sizes available for solar and 450mm
- Interfaces with the IMPulse RF electronics

Processes Supported

- Wafer cleaning
- Post-CMP cleaning
- BOEL cleaning
- Solar cleans
- Mask cleaning
- Lift off
- Resist strip
- Mold and imprint master cleaning
- Etch enhancement
- Plating assist and bubble removal

