

## Tube Inspection Services

### Acoustic Eye system

*Acoustic Eye provides non-invasive tube inspection solutions to the heat exchanger market. Utilizing breakthrough acoustic-based technology, this solution revolutionizes the way companies perform heat exchanger maintenance. With Acoustic Eye, you can test 100% of your tubes at a fraction of the time and cost of your current maintenance budget and avoid costly downtime due to failures in your mission-critical equipment.*

The system is based on the principles of Pulse Reflectometry, using sound waves emitted from a probe at the mouth of the tube. These propagate down the tube and reflect back where they are received and recorded. The results are then analysed by specialist software to monitor for any change in the tubes cross section that may indicate *holes, pitting, bulges, erosion and partial/full blockages*. These suspected defects can then be reviewed by the operator for inclusion in or exclusion from the final report.

### Unmatched 100% Inspection Capabilities

Using an innovative approach and cutting-edge technology, Acoustic Eye Dolphin™ delivers unmatched inspection capabilities:

- Fast, easy and reliable inspection enables 100% inspection coverage, reducing the risk involved in random sampling.
- Non-invasive technology lets you test any tube from a single access point of the tube, eliminating the need for customized probes that can get stuck or damage the tube.
- Compatible with any tube material and any configuration (bends, U-tubes, fin tubes, spirals, etc.)



- Identification of defects that current solutions fail to detect such as bulges, end-of-tube erosion, fouling and inward dents. The acoustic eye is capable of telling you the exact type, size and position of the defect along the length of the tube.
- Computer-based interpretation delivers objective, consistent and actionable results, reducing the reliance on experts for data interpretation

As NDT specialists we can also provide inspection services such as Eddy Current and Iris as requested.