



Heat Exchanger Testing

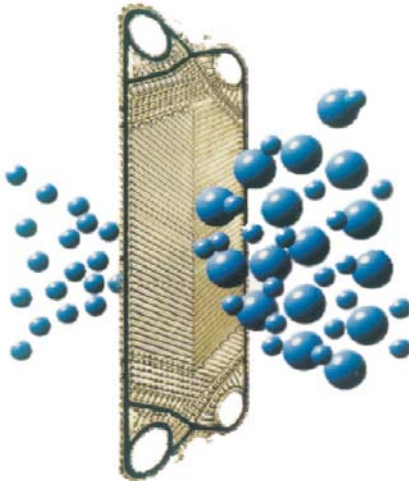
THE ULTIMATE LEAK DETECTION SYSTEM FOR HEAT EXCHANGERS

The Accusense System uses Helium as an established and highly effective non-destructive testing method for plate and tubular heat exchangers. Unlike conventional methods (i.e. dye penetrant) the Accusense System does not require the heat exchanger to be stripped or opened and can find holes down to 5 microns.

This proven method uses Helium gas as it not only has the second smallest atom size, but is also easily detectable. This unique patented process allows for the discovery of faults before they

become problematic. Costly down time can be eliminated with a planned preventative maintenance schedule.

The use of Helium has additional benefits in that it is safely dispersed, leaves no residue, is non toxic and does not stress the plate pack with high pressures. This method is very quick, efficient and only takes on average 5 minutes a section to test a standard heat exchanger, therefore making a very cost effective solution to inspection needs within many industries.



- Non-destructive
- Safe in Operation
- No residual contamination
- Minimum disruption to production
- Non toxic
- Extremely sensitive
- Non corrosive
- Fast, accurate results

- Recommended by large retailers
- Odorless
- Less stressing on heat exchangers
- Pressures under 20 psi
- No environmental impact
- Pinhole detection
- Supports Quality Assurance programs
- On-site testing with prompt conclusions

Trans-Market Process Systems is the Licensee for this patented testing method for the South East United States (Florida, Georgia, Alabama, Mississippi, Tennessee, Kentucky, North Carolina and South Carolina).



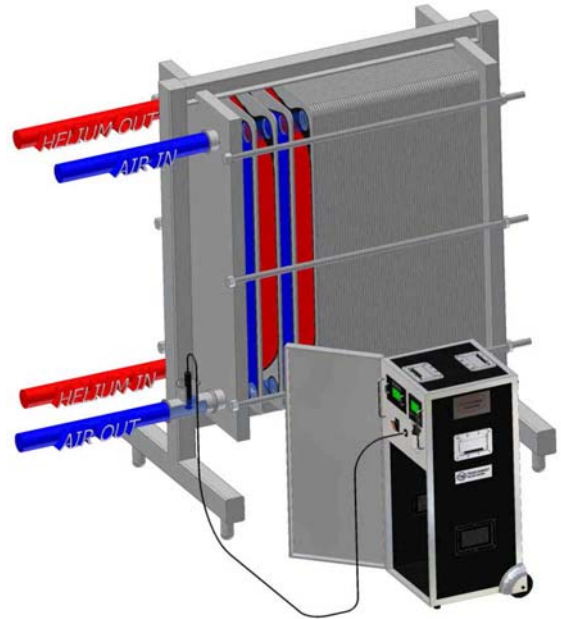
Services for the FOOD and PHARMACEUTICAL INDUSTRIES

8915 Maislin Drive, Tampa, FL USA 33637-6708 • (800) 282-8808 • (813) 988-6146 • FAX (813) 988-5547 • www.transmarket.com

HOW THE TEST WORKS

The process involves pressurizing the primary side of a heat exchanger with Helium gas to a pressure no greater than 20 psi. The gas is then bled through this section to ensure complete coverage of the plates. Helium penetrates through water so any remaining water is not considered a problem. Helium is a highly mobile gas that will easily pass through small pin holes and cracks in heat exchanger plates or tubes. It is an inert gas therefore non flammable. It is also non toxic, non corrosive and leaves no residue.

The secondary side of the heat exchanger has a low volume air purge system fitted with a helium detector probe. The probe detects any crossover of Helium from the primary side down to as little as 2 ppm. Any migration through elastomers will pass to the atmosphere causing no indication on our instrument.



WHY TEST HEAT EXCHANGERS?

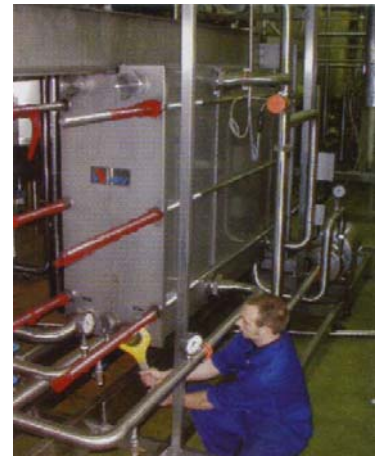
The need for regular testing in the food, citrus, dairy, brewery and pharmaceutical industries has never been greater.

Increases in health concerns, public interest and the insistence of large retailers on due diligence and good manufacturing practice means that companies can no longer hope for the best or wait for an expensive fault to interrupt production. Quite clearly, prevention is the answer.

We work closely with production schedules to arrange and instigate a regular testing program designed specifically to meet the client's needs. This ensures minimum disruption to operation and provides certified peace of mind against contamination and equipment failure.

Our vastly experienced technicians operate to the highest standards, offering on-site services utilizing the ultimate testing techniques.

The simple investment of a small amount of production time will enable you to benefit from the continual and reliable operation of your manufacturing facility.



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